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**UNITED STATES  
SECURITIES AND EXCHANGE COMMISSION**  
WASHINGTON, D.C. 20549

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**FORM S-1  
REGISTRATION STATEMENT**  
*UNDER  
THE SECURITIES ACT OF 1933*

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**Astera Labs, Inc.**

(Exact Name of Registrant as Specified in Its Charter)

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**Delaware**  
(State or Other Jurisdiction of  
Incorporation or Organization)

**3674**  
(Primary Standard Industrial  
Classification Code Number)

**82-3437062**  
(I.R.S. Employer  
Identification Number)

**2901 Tasman Drive, Suite 205  
Santa Clara, CA 95054  
(408) 337-9056**

(Address, Including Zip Code, and Telephone Number, Including Area Code, of Registrant's Principal Executive Offices)

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Approximate date of commencement of proposed sale to the public: As soon as practicable after this registration statement becomes effective.

If any of the securities being registered on this Form are to be offered on a delayed or continuous basis pursuant to Rule 415 under the Securities Act, check the following box:

If this Form is filed to register additional securities for an offering pursuant to Rule 462(b) under the Securities Act, please check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(c) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

If this Form is a post-effective amendment filed pursuant to Rule 462(d) under the Securities Act, check the following box and list the Securities Act registration statement number of the earlier effective registration statement for the same offering.

Indicate by check mark whether the registrant is a large accelerated filer, an accelerated filer, a non-accelerated filer, smaller reporting company, or an emerging growth company. See the definitions of "large accelerated filer," "accelerated filer," "smaller reporting company," and "emerging growth company" in Rule 12b-2 of the Exchange Act.

Large accelerated filer

Accelerated filer

Non-accelerated filer

Smaller reporting company

Emerging growth company

If an emerging growth company, indicate by check mark if the registrant has elected not to use the extended transition period for complying with any new or revised financial accounting standards provided to Section 7(a)(2)(B) of the Securities Act.

**The registrant hereby amends this registration statement on such date or dates as may be necessary to delay its effective date until the registrant shall file a further amendment which specifically states that this registration statement shall thereafter become effective in accordance with Section 8(a) of the Securities Act of 1933 or until the registration statement shall become effective on such date as the Commission, acting pursuant to said Section 8(a), may determine.**

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**EXPLANATORY NOTE**

Pursuant to the applicable provisions of the Fixing America's Surface Transportation Act, we are omitting from this draft registration statement our audited financial statements as of and for the year ended December 31, 2021, and our unaudited financial statements as of and for the nine months ended September 30, 2022 and 2023 because they relate to historical periods that we believe will not be required to be included in the prospectus at the time of the contemplated offering. We intend to amend this draft registration statement to include all financial information required by Regulation S-X at the date of such amendment before publicly filing this registration statement.

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The information in this preliminary prospectus is not complete and may be changed. These securities may not be sold until the registration statement filed with the Securities and Exchange Commission is effective. This preliminary prospectus is not an offer to sell, nor does it seek an offer to buy these securities in any jurisdiction where the offer or sale is not permitted.

Subject to Completion, dated \_\_\_\_\_, 2024.

Shares



*Astera Labs, Inc.*

*Common Stock*

This is an initial public offering of shares of common stock of Astera Labs, Inc. We are offering \_\_\_\_\_ shares of our common stock.

Prior to this offering, there has been no public market for our common stock. It is currently estimated that the initial public offering price will be between \$ \_\_\_\_\_ and \$ \_\_\_\_\_ per share. We intend to apply to list our common stock on the \_\_\_\_\_ under the symbol “\_\_\_\_\_.”

We are an “emerging growth company” as defined under Section 2(a)(19) of the Securities Act of 1933, as amended, and, as such, we have elected to comply with certain reduced reporting requirements for this prospectus and may elect to do so in future filings. See “Prospectus Summary—Emerging Growth Company.”

Investing in our common stock involves a high degree of risk. See the section titled “[Risk Factors](#)” beginning on page 16 to read about factors you should consider before buying our common stock.

Neither the Securities and Exchange Commission nor any other regulatory body has approved or disapproved of these securities or passed upon the accuracy or adequacy of this prospectus. Any representation to the contrary is a criminal offense.

|                                      | <u>Per Share</u> | <u>Total</u> |
|--------------------------------------|------------------|--------------|
| Initial public offering price        | \$ _____         | \$ _____     |
| Underwriting discount <sup>(1)</sup> | \$ _____         | \$ _____     |
| Proceeds, before expenses, to us     | \$ _____         | \$ _____     |

(1) See the section titled “Underwriting” for additional information regarding compensation payable to the underwriters.

The underwriters have the option to purchase up to an additional \_\_\_\_\_ shares of common stock from us at the initial public offering price, less the underwriting discount, for 30 days after the date of this prospectus.

The underwriters expect to deliver the shares against payment in New York, New York on or about \_\_\_\_\_, 2024.

MORGAN STANLEY

J.P. MORGAN

The date of this prospectus is \_\_\_\_\_, 2024

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**Through and including \_\_\_\_\_, 2024 (the 25th day after the date of this prospectus), all dealers effecting transactions in these securities, whether or not participating in this offering, may be required to deliver a prospectus. This is in addition to the dealers' obligation to deliver a prospectus when acting as underwriters and with respect to their unsold allotments or subscriptions.**

You should rely only on the information contained in this prospectus, any amendment or supplement to this prospectus, or contained in any free writing prospectus filed by us with the Securities and Exchange Commission (the "SEC"). Neither we nor any of the underwriters have authorized anyone to provide any information or make any representations other than those contained in this prospectus, any amendment or supplement to this prospectus, or in any free writing prospectus we have prepared. We and the underwriters take no responsibility for, and can provide no assurance as to the reliability of, any other information that others may give you. We are offering to sell, and seeking offers to buy, shares of our common stock only in jurisdictions where offers and sales are permitted. The information contained in this prospectus, any amendment or supplement to this prospectus, or any free writing prospectus, is accurate only as of the date of this prospectus, regardless of the time of delivery of this prospectus, any amendment or supplement to this prospectus, or any applicable free writing prospectus, as the case may be, or of any sale of our common stock. Our business, financial condition, results of operations, and prospects may have changed since that date.

For investors outside of the United States: we are offering to sell, and seeking offers to buy, shares of our common stock only in jurisdictions where offers and sales are permitted. Neither we nor any of the underwriters have done anything that would permit this offering or possession or distribution of this prospectus, any amendment or supplement to this prospectus, or any applicable free writing prospectus in any jurisdiction where action for that purpose is required, other than in the United States. Persons outside of the United States who come into possession of this prospectus, any amendment or supplement to this prospectus, or any applicable free writing prospectus must inform themselves about, and observe any restrictions relating to, the offering of the shares of our common stock and the distribution of this prospectus, any amendment or supplement to this prospectus, or any applicable free writing prospectus outside of the United States.

## NON-GAAP FINANCIAL MEASURES

This prospectus contains certain financial measures that are not presented in accordance with generally accepted accounting principles in the United States (“GAAP”), including non-GAAP operating (loss) income and non-GAAP net loss, that are not required by, or prepared in accordance with, GAAP. We refer to these measures as “non-GAAP financial measures.” See the section titled “Management’s Discussion and Analysis of Financial Condition and Results of Operations—Non-GAAP Financial Measures” for our definitions of these non-GAAP financial measures, information about how and why we use these non-GAAP financial measures and a reconciliation of each of these non-GAAP financial measures to its most directly comparable financial measure calculated in accordance with GAAP.

## GLOSSARY OF CERTAIN TERMS

The following are abbreviations, acronyms, and definitions of certain terms used in this prospectus:

- “ASICs” means Application-Specific Integrated Circuits, custom-designed ICs for a specific purpose, offering better performance and efficiency compared to general-purpose ICs. ASICs are widely used in electronic devices, including smartphones, computers, and networking equipment. Hyperscalers have adopted custom ASICs to address the performance and scalability requirements of cloud and Artificial Intelligence (“AI”) applications.
- “BIOS” means Basic Input/Output System, a system software that initializes hardware and loads the operating system when a computer is turned on. It acts as an intermediary between the operating system and the computer’s hardware components.
- “BMC” means Baseboard Management Controller, a specialized processor located on a computer’s motherboard that provides management capabilities, allowing remote monitoring, configuration, and troubleshooting of the system even if the operating system is unavailable. With BMCs, system administrators can monitor the hardware in a data center without physically being located or connected to the system.
- “CPU” means Central Processing Unit, the brain of a computer, responsible for executing instructions and carrying out computations. It is a complex IC that fetches, decodes, and executes instructions, typically from main memory under the control of software programs.
- “customers” refers to our end customers, our end customers’ manufacturing partners, and our distributors. When the context requires, we may use “end customers,” which are primarily hyperscalers and System OEMs, to distinguish from our end customers’ manufacturing partners and our distributors. When used in our audited consolidated financial statements included elsewhere in this prospectus, “customers” refers to parties we directly invoice for products or services, which primarily include our end customers’ manufacturing partners and our distributors.
- “CXL” means Compute Express Link, an industry standard interconnect that offers high-bandwidth, low-latency connectivity between a host processor and other ICs such as AI accelerators, memory expansion, and smart I/O devices. CXL maintains memory coherency between a processor’s memory and all attached devices, providing higher performance, lowering system costs and helping overcome memory-storage bottlenecks.
- “DDR5” means Double Data Rate 5 Synchronous Dynamic Random-Access Memory (“DRAM”), the latest generation of memory focused on increasing the density and capacity of Random-Access-Memory (“RAM”). DDR5 is designed to reduce power consumption while doubling bandwidth relative to its predecessor, DDR4. It is commonly used in the latest high-performance computers and servers.
- “DSP” means Digital Signal Processor, a specialized IC that uses digital algorithms to perform functions that were traditionally performed by analog circuits, such as filtering, amplification, and modulation. Due to their digital nature, DSPs provide more robust and advanced signal processing power necessary for many applications such as video processing, imaging, and communications.
- “Ethernet” refers to a standardized network protocol used in a data center for connecting servers and switches together in a Local Area Network (“LAN”) over copper and optical cables. Ethernet cables support longer reach and can add security and diagnostic capabilities.
- “FPGAs” means Field Programmable Gate Arrays, a type of ICs that can be programmed and reconfigured by the customer after the manufacturing process. This allows designers to customize the ICs to meet specific use case requirements. FPGAs, due to their customizability, enable many cloud and AI use cases.
- “Gbps” means gigabits per second.
- “GPU” means Graphic Processing Unit, a specialized IC with a high degree of parallelism used to accelerate the rendering of complex graphics onto a screen. Due to their ability to perform a large

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number of computations in parallel, GPUs often outperform CPUs and are increasingly being used for scientific computing, and for accelerating AI workloads such as training of large language models (“LLMs”).

- “GT/s” means giga transfers per second.
- “HBM” means High Bandwidth Memory, a type of computer memory designed to provide high bandwidth and low latency for GPUs, other AI accelerators, and CPUs. HBM is significantly faster and more expensive than traditional DRAM memory and is typically integrated within the IC package, allowing for shorter signal paths and faster data transfer rates.
- “Hyperscalers” refers to large technology companies that provide cloud computing services on a massive scale. They offer a wide range of services that are dynamically provisioned by their users on an as-needed basis using software. The services include, but are not limited to, computing infrastructure, software platforms, and, increasingly, AI model training and inferencing.
- “IC” means an Integrated Circuit, a miniaturized electronic circuit that combines multiple transistor components and other elements into a single small package. ICs are the fundamental building blocks of modern electronics, and they are used in a wide variety of applications, including computers, servers, networking equipment, smartphones, automobiles, and medical devices.
- “Mask” refers to a template typically etched in glass or quartz, used in the IC manufacturing process to transfer a complex pattern of shapes onto a semiconductor wafer.
- “NIC” means Network Interface Card, a hardware component that connects computers and servers to a network. NICs typically connect to the local server using PCIe protocol and convert data received from the server to Ethernet or another suitable protocol to be sent over a network.
- “PCB” means Printed Circuit Board, a board made of insulating material with layers of conducting copper tracks used to connect components, including ICs, to one another forming an electronic circuit. PCBs offer a compact solution for containing and connecting all the necessary parts of electronic devices.
- “PCIe” means Peripheral Component Interconnect Express, a high-speed serial electronic data transfer technology widely used in servers. PCIe protocol is frequently used in several types of server interconnects in a data center including interconnects between CPUs, GPUs, other AI accelerators, storage devices, and NICs.
- “Server Rack” refers to an open-frame cabinet of standard dimensions used to organize and house servers, networking equipment, power supplies, and other information technology (“IT”) hardware. A data center typically houses thousands of server racks interconnected by networking switches typically using Ethernet protocol.
- “Signal integrity” refers to the measure of how accurately and reliably a signal can be transmitted from one point to another without distortion or corruption. It is a critical factor in the design and operation of electronic systems that operate at high speeds or over long distances. Electrical characteristics of high-speed signals may degrade due to channel insertion losses in PCBs or cables, reflections, crosstalk, and noise. ICs with specialized hardware and DSP techniques are used to restore the signal quality.
- “SKU” means Stock-Keeping Unit, a unique identifier for a product, typically assigned by a manufacturer. It is used as a unique identifier for a specific product.
- “SMC” means System Management Controller, typically a microcontroller or an FPGA that is responsible for managing low-level system functions. These functions include power management, thermal management, and hardware management.
- “SSD” means Solid State Drive, a type of storage device that uses ICs to store data persistently. SSDs contain no moving parts and can access large files quickly.

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- “System OEM” means a system Original Equipment Manufacturer, a company that produces finished products for resale, using parts or components from other companies. System OEMs play an important role in the supply chain and are one of our important customers.
- “Tapeout” refers to the completion of the design phase of an IC and transfer of the design into a digital format suitable for creation of “Masks” used in the semiconductor wafer manufacturing process.
- “ToR” means Top-of-Rack, a type of network switch that is typically installed at the top of a server rack in a data center. ToR switches are used to connect the servers in the rack to each other and to the rest of the network. They are typically high-performance switches that can handle significant data traffic.
- “TPU” means Tensor Processing Unit, a custom accelerator designed and developed by Google. TPUs are optimized for AI applications and address the performance and scalability requirements of training and inference of large AI models.



## PROSPECTUS SUMMARY

*This summary highlights selected information that is presented in greater detail elsewhere in this prospectus. This summary does not contain all of the information you should consider before investing in our common stock. You should read this entire prospectus carefully, including the sections titled “Risk Factors” and “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and our consolidated financial statements and the related notes included elsewhere in this prospectus, before making an investment decision. This summary contains forward-looking statements that involve risks and uncertainties. Unless the context otherwise requires, the terms “Astera,” “the Company,” “we,” “us,” and “our” in this prospectus refer to Astera Labs, Inc. and its consolidated subsidiaries.*

### ASTERA LABS, INC.

#### **Mission Statement**

Our mission is to innovate, design, and deliver semiconductor-based connectivity solutions that are purpose-built to unleash the full potential of cloud and AI infrastructure.

#### **Overview**

Building on years of experience with a singular focus on addressing connectivity challenges in data-centric systems, we have developed and deployed our leading Intelligent Connectivity Platform built from the ground up for cloud and AI infrastructure. Our Intelligent Connectivity Platform comprises:

- i) Semiconductor-based, high-speed, mixed-signal connectivity products that integrate a matrix of microcontrollers and sensors; and
- ii) COSMOS, our software suite which is embedded in our connectivity products and integrated into our customers’ systems.

Our Intelligent Connectivity Platform provides our customers with the ability to deploy and operate high-performance cloud and AI infrastructure at scale, addressing an increasingly diverse set of requirements. We provide our connectivity products in various form factors including ICs, boards, and modules.

AI touches many aspects of our daily lives today, from vision processing for autonomous vehicles to speech recognition systems for chatbots. According to IDC, by 2025, the Global 2000 organizations will allocate over 40% of their core IT spend to AI-related initiatives, leading to a double-digit increase in the rate of product and process innovations. The shift towards the cloud from on-premise computing is rapidly accelerating due to increasing demand for compute-intensive AI workloads that are truly optimized when deployed at cloud scale.

To address the performance and scalability requirements of AI and other compute-intensive applications, hyperscalers have adopted heterogeneous, “accelerated computing” system architectures within their data centers, which include GPUs and other AI accelerators, such as TPUs, AI processors, custom ASICs, and FPGAs, to target specific workloads. These new system architectures require a connectivity backbone that is significantly faster, has lower latency, is robust, and supports cloud scale deployment.

Our patented software-defined platform approach delivers critical connectivity performance, enables flexibility and customization, and supports observability and predictive analytics. This approach efficiently addresses the data, network, and memory bottlenecks, scalability, and other unique infrastructure requirements of our hyperscaler and system OEM customers.

Based on trusted relationships with the leading hyperscalers and collaboration with data center infrastructure suppliers such as NVIDIA, Advanced Micro Devices, Intel, and many others, our platform is designed to meet our customers’ unique cloud scale requirements. Our COSMOS software suite is foundational to our Intelligent

Connectivity Platform and is designed to enable our customers to seamlessly configure, manage, monitor, optimize, troubleshoot, and customize functions in our IC, board, and module products.

We believe that our Intelligent Connectivity Platform addresses a large and growing total addressable market (“TAM”) of \$17.2 billion. Specifically, our technology and product portfolios target the global wired connectivity market, including PCIe and Ethernet, and the CXL memory connectivity controller market. We believe that our TAM will grow to \$27.4 billion by 2027, and we expect to address an increasing share of this TAM as we expand the breadth and depth of our product portfolio. See the section titled “Business—Our Market Opportunity” for additional information on how we calculate our TAM.

Today, our connectivity solutions are at the heart of major AI platforms deployed worldwide featuring both commercially available GPUs and proprietary AI accelerators. In the last four years, we have successfully introduced three revenue-generating product families across multiple form factors including ICs, boards, and modules, shipping millions of devices across all of the major hyperscalers. Our products, which include Aries PCIe®/CXL™ Smart DSP Retimers (“Aries”), Taurus Ethernet Smart Cable Modules™ (“Taurus”), and Leo CXL Memory Connectivity Controllers (“Leo”), leverage our ICs that are built upon industry standard connectivity protocols such as PCIe, Ethernet, and CXL to address the growing demand for purpose-built connectivity solutions that solve critical data, network, and memory bottlenecks inherent in cloud and AI infrastructure.

Since our inception, we have created and commercialized first-to-market PCIe, Ethernet, and CXL products, and, with more than 300 design wins, we have become a trusted partner and a proven supplier to our hyperscaler and system OEM customers. We have experienced strong growth since our founding in October 2017, and particularly since the commercial launch of Aries in 2020. Our revenue grew from \$79.9 million in 2022 to \$            million in 2023, driven by a significant increase in demand for our products. We have made significant investments in the design and development of new products and platform enhancements, and, as a result, we have a history of net losses and have not yet achieved profitability on an annual basis. We incurred net losses of \$58.3 million in 2022 and \$            million in 2023. As of December 31, 2022 and 2023, we had an accumulated deficit of \$99.1 million and \$            million, respectively. During the years ended December 31, 2022 and 2023, our cash used in operating activities was \$35.9 million and \$            million, respectively.

## **Industry Background**

### ***The Proliferation of Cloud Computing***

Over the past decade, we have witnessed the rapid global adoption of cloud computing. This shift towards the cloud is rapidly accelerating due to increasing demand for compute-intensive AI workloads that are truly optimized only when deployed at cloud scale. The transition to the cloud has been fueled by the unparalleled ease, flexibility, and security of deploying computing resources at scale, with minimal upfront required capital investment by users.

Cloud infrastructure requires highly customized integration. Hyperscalers, which include public cloud service providers such as Amazon Web Services (“AWS”), Google Cloud Platform (“GCP”), and Microsoft Azure, are diverse and complex. Hyperscalers also include large organizations, such as Meta, and their infrastructure is highly optimized for proprietary workloads that run in their private clouds.

The proliferation of cloud computing has resulted in several important changes in the semiconductor ecosystem as hyperscalers seek to provide differentiated solutions to their users.

As such, hyperscalers are:

- differentiating with custom hardware and processors;
- redefining the technology roadmaps and supply chain requirements of their semiconductor suppliers;

- laser-focused on server uptime, scaling, and fleet reliability; and
- committed to green data centers and environmental sustainability.

***Artificial Intelligence is the Era-Defining Technology Driving the Next Generation of Cloud Infrastructure***

AI touches many aspects of our daily lives today. According to IDC, by 2025, the Global 2000 organizations will allocate over 40% of their core IT spend to AI-related initiatives, leading to a double-digit increase in the rate of product and process innovations.

Recent Generative AI (“GenAI”) advances, as demonstrated by the launch of ChatGPT by OpenAI in late 2022, have shown the unprecedented capabilities and immense potential for training LLMs to enhance applications across industries. However, these AI models continue to increase in size and complexity. Given their massive need for computing, GenAI is only practical at cloud scale.

To address the performance and scalability requirements of AI and other compute-intensive applications, hyperscalers have adopted heterogeneous, “accelerated computing” architectures to target specific workloads. AI accelerators such as GPUs, TPUs, and FPGAs, with their massively parallel compute engines and high bandwidth connectivity to memory and data, are foundational to the AI infrastructure. To address increasingly larger and more complex AI workloads, hyperscalers interconnect tens of thousands of GPUs and other AI accelerators that process workloads in parallel across thousands of servers to increase system compute capacity.

***Existing Connectivity Solutions are Inadequate to Deploy AI Infrastructure at Cloud Scale***

GPUs and other AI accelerators are often the most expensive and scarce part of data centers. AI accelerators are efficient at computing, challenging the rest of the cloud and AI infrastructure to effectively transport data to and from them to maximize their utilization. However, GPUs and other AI accelerators often sit idle waiting for data to become available. Increasing the utilization of AI hardware presents a large challenge as well as a massive opportunity for connectivity suppliers.

Purpose-built connectivity solutions that connect GPUs and other AI accelerators with each other directly or between servers are required to unleash AI accelerators’ full potential at cloud scale and solve the following critical data, network, and memory bottlenecks:

***Data and network bandwidth bottlenecks.*** The connectivity between GPUs, other AI accelerators, CPUs, storage devices, and networking subsystems in an AI platform must deliver ever-increasing bandwidth.

***Exploding signal integrity challenges.*** Data transfer rates across all protocols have been rapidly growing to support compute-intensive workloads, and the physical size of AI server clusters has grown as well, compounding the signal integrity problem.

***Memory wall.*** CPU performance has outpaced the ability for memory subsystems to provide CPUs with data and memory access, thereby limiting computing performance. Memory-intensive applications, such as AI, require ultra-fast memory bandwidth and significant memory capacity that must be simultaneously accessible by other AI accelerators in a cluster.

***Interconnect reliability and observability.*** When a single server or a single AI accelerator fails, or the network connecting them does not transfer data reliably, the entire AI server cluster will typically stop, re-synchronize, and restart, reducing infrastructure utilization, and increasing the time and cost required to train AI models.

***Cloud and AI infrastructure diversity drives connectivity solution complexity.*** Hyperscalers optimize their cloud infrastructure to meet the unique requirements of their users and internal business models. This requires customization and flexibility to support a wide range of use cases.

The bottleneck for AI deployments in the cloud has shifted from computing performance to connectivity. We believe a new approach for connectivity is required to address the data, network, and memory bottlenecks in a reliable, scalable, customizable, and interoperable manner for cloud and AI infrastructure.

### **Our Solution**

Our patented software-defined Intelligent Connectivity Platform delivers critical connectivity performance, enables flexibility and customization, and supports observability and predictive analytics. We enhance the value of our platform with our Interoperability Lab (“Interop Lab”), where we validate performance and interoperability between our connectivity products and other data center infrastructure suppliers’ products in real-world scenarios.

#### ***Our Products***

In the last four years, we have successfully introduced three revenue-generating product families across multiple form factors including ICs, boards, and modules that are built upon our software-defined IC architecture:

***Aries PCIe®/CXL™ Smart DSP Retimers.*** Our Aries products, which include our COSMOS software suite, are essential to enable higher PCIe/CXL data bandwidth and lower latency interconnectivity between various heterogeneous compute processors, storage, and network controllers. Aries digitally recovers degraded high-speed signals and retransmits a clean copy of the data, thereby extending the reach of existing cost-effective interconnects, while enabling higher data bandwidth.

***Taurus Ethernet Smart Cable Modules™.*** Our Taurus products are hardware modules based on our Taurus ICs that increase network connectivity bandwidth between servers and switches over copper media. Taurus modules incorporate our COSMOS software suite and extend Ethernet signaling reach at higher data rates, providing cost-effective, rack-level network connectivity for cloud and AI infrastructure, removing rack-level Ethernet connectivity bottlenecks.

***Leo CXL Memory Connectivity Controllers.*** Our Leo products allow our customers to overcome processor memory bandwidth bottlenecks and capacity limitations, while leveraging our COSMOS software suite’s built-in memory management and deep diagnostic capabilities. Leo ICs and boards enable expanding, sharing, and pooling of industry standard DRAM memory over high-speed serial links to support memory-intensive workloads running on AI accelerators and CPUs.

#### ***COSMOS Software Suite***

Our COnnectivity System Management and Optimization Software, or COSMOS software suite, is foundational to our Intelligent Connectivity Platform. COSMOS is designed to enable our hyperscaler customers to seamlessly configure, manage, monitor, optimize, troubleshoot, and customize functions in our IC, board, and module products. COSMOS has a software component that operates on our customers’ BMC, SMC, BIOS, and/or operating system, and interfaces with other COSMOS software components running on microcontrollers integrated into our ICs, boards, and modules.

Our software suite provides three distinct capabilities to our customers:

***Link Management.*** A critical purpose of COSMOS is to ensure secure and robust data link communication between devices in a computing system.

***Fleet Management.*** COSMOS allows real-time monitoring of and predictive maintenance for server fleets. Data from device-level software components is communicated to platform-level software to provide fleet-level insights and analytics.

**Reliability, Availability, Serviceability (“RAS”).** COSMOS enables RAS capabilities by detecting, reporting, and testing the data, network, and memory links supported by our product families. Software components on our ICs report telemetry data to allow for performance monitoring, error detection, and correction.

COSMOS improves our products over time by giving our customers new features, enhancements, and critical updates.

***Industry-Trusted Cloud Scale Interoperability Lab***

We have built and deployed our industry-trusted cloud scale Interop Lab and developed comprehensive interoperability test suites. These tests validate performance and interoperability between our connectivity products and other data center infrastructure suppliers’ products in real-world scenarios to minimize interoperation risk, reduce system development costs, lower unplanned downtime, and accelerate time-to-market.

Our leading Intelligent Connectivity Platform is performant for the most demanding cloud and AI applications, provides customizable products for different hyperscalers, is reliable at cloud scale, and we believe it increases value to our customers over time.

**Key Customer Benefits of Our Intelligent Connectivity Platform**

Our Intelligent Connectivity Platform provides our customers with the ability to deploy and operate high-performance cloud and AI infrastructure at scale, addressing an increasingly diverse set of requirements.

***Superior connectivity performance critical for the next generation of cloud and AI infrastructure.*** We developed our purpose-built Intelligent Connectivity Platform to deliver high bandwidth and low latency connectivity at significant scale, enabling the deployment of the next generation of cloud infrastructure critical for data-centric workloads such as AI.

***Seamless deployment through customizable products, utilizing our customer Platform Specific Standard Product (“PSSP”) model.*** Our software-defined connectivity platform is highly customizable to address the unique needs of each hyperscaler, which enables our hyperscaler customers to seamlessly provide differentiated solutions to their users without compromising on performance, features, or cost.

***Robust reliability, quality-of-service (“QoS”), and software management capabilities facilitate deployment at scale.*** Our platform provides (i) robust signal integrity to overcome increasing channel insertion loss as connectivity speeds increase, (ii) server-grade RAS support, and (iii) sophisticated link telemetry features that enable signal monitoring for QoS.

***Real-time link monitoring for fleet health management and improved user experience.*** Link health monitors embedded in our products and software algorithms implemented in our COSMOS software suite provide rich insights into the health, performance, and utilization of interconnects for predictive maintenance, as well as for the reassignment of user workloads to healthy hardware for improved user experience.

***Platform optionality and supply chain flexibility.*** Our Intelligent Connectivity Platform supports multiple cloud and AI compute platforms, which incorporate a mix of GPUs, other AI accelerators, and CPUs. This enables our customers to seamlessly port their connectivity architectures across multiple system platforms featuring processors from different suppliers, including proprietary in-house processors from hyperscalers.

***Multiple form factors expand deployment options and accelerate time-to-market.*** We provide our connectivity products in various form factors including ICs, boards, and modules. We strive to ensure that our products optimally perform across form factors, which enables our customers to adapt their product sourcing plans with us to support their dynamic system requirements and quickly deploy multiple architectural topologies across their infrastructure.

***Accelerated time-to-market improves return-on-investment (“ROI”) for hyperscalers.*** We believe we enable our hyperscaler customers to offer the latest and largest AI models to their users faster than their peers, which is critical for hyperscalers to retain and grow their user bases.

***Improved utilization of cloud and AI infrastructure lowers total cost of ownership (“TCO”).*** Our Intelligent Connectivity Platform enables increased utilization of expensive GPUs and other AI accelerators, unlocks scalable memory expansion, and provides greater system uptime to lower the total cost of system ownership for hyperscalers, improving the value proposition that they can provide for their users.

***Green data centers and environmental sustainability.*** Our Intelligent Connectivity Platform increases power efficiency by increasing bandwidth over existing interconnects such as copper cables thereby reducing energy requirements compared to optical cables. We further enable environmental sustainability by extending the useful life and reuse of our customers’ existing hardware, which includes copper media.

## **Our Customer Flywheel**

We use our deep technical expertise and ability to innovate and tailor our products to meet each hyperscalers’ exacting needs. As a result, our business sees a powerful flywheel effect, which creates additional demand for existing products and enables us to bring additional new products to market in close relationships with our customers.

***Our customer PSSP business model enables symbiotic customer relationships.*** Based on the unique requirements of each customer, our software-defined platform architecture allows us to rapidly develop our standard products and gives us the flexibility to make modifications, customizations, and upgrades, even after deployment.

***Our cloud scale Interop Lab enables rigorous testing for interoperability within the data center infrastructure ecosystem.*** Our focus on ensuring interoperability for our products allows our customers to deploy them with confidence and elevates our position as a trusted partner.

***Our deep system level visibility into critical components in the data center.*** Our COSMOS software suite enables deep visibility into the performance and limitations of cloud and AI infrastructure, providing us with a pathway to continuously improve our products and increase the value that they provide to our customers.

***Natural partner for implementing generational upgrades.*** Our COSMOS software suite allows customizations through link management, fleet management, and RAS to meet unique customer requirements. When coupled with our leading connectivity products, this makes us a trusted partner for hyperscalers when they need to implement generational upgrades.

Our customer flywheel creates a virtuous cycle where we gain more insight from existing deployments and translate them into hardware and software feature upgrades for our product families, thereby continuously improving our Intelligent Connectivity Platform.

We sell our products both through distributors and directly to end customers and their manufacturing partners. We are the primary interface with our hyperscaler, system OEM customers and their manufacturing partners whose requirements help drive the design of our solutions. Presently most of our direct revenue comes from distributors who operate as logistics and order fulfillment service providers to our customers.

## **Our Competitive Strengths**

We believe our singular focus on cloud and AI connectivity, our software-defined platform architecture, and our system-level approach fortify our customer relationships, which are reinforced with each generational

upgrade and new product family introduction, creating our durable competitive moat. Our competitive strengths include:

***Singular focus on cloud and AI connectivity.*** Our comprehensive suite of PCIe, Ethernet, and CXL products are built from the ground-up to address the data, network, and memory bottlenecks of accelerated computing at cloud scale. Our singular focus on cloud and AI infrastructure provides us with a deep understanding of our customers' needs and our products deliver optimal performance essential for their deployment.

***Software-defined IC architecture and COSMOS software suite underpins our connectivity products.*** Our software-defined platform architecture, which extends from our IC designs to our COSMOS software suite, optimizes time-to-market and allows us to easily customize our products to match the unique performance and functional requirements of our customers. This approach allows for an accelerated design process, with faster time-to-sample, and greater levels of flexibility and customization compared to traditional hardware-centric approaches. This makes us an ideal partner for hyperscalers when they need to implement generational upgrades, fortifying our position and strengthening our competitive moat.

***System-level approach to purpose-built product families.*** We provide a complete platform consisting of ICs, boards, and modules coupled with software and interoperability reports that ensure ease of integration and customer adoption.

***First mover advantage provides early insight into evolving customer needs.*** We have created and commercialized first-to-market PCIe, Ethernet, and CXL products, and with more than 300 design wins, we have become a trusted partner and a proven supplier to our hyperscaler and system OEM customers. As a result, we gain extensive insight from existing deployments and translate them into new product opportunities.

***Cloud-based IC research and development fuels our continued innovation.*** We were "born in the cloud," with our research and development located in the public cloud. By harnessing the scale of cloud computing, we believe we improve quality, reduce development costs, and accelerate speed of execution, which allows us to get to market faster than traditional semiconductor companies.

***Broad and deep relationships across the entire data center infrastructure ecosystem.*** We have developed deep relationships through our Interop Lab as well as from our products being integrated into reference designs provided by industry leaders within the data center infrastructure ecosystem.

***Robust supply chain designed to serve hyperscaler customers.*** We believe we have built a robust and resilient supply chain that will meet the demand profile of hyperscalers. We have a strong manufacturing relationship with Taiwan Semiconductor Manufacturing Company Limited ("TSMC"), and we qualify multiple suppliers and vendors, enabling us to better weather potential unforeseen supply chain disruptions.

***Experienced management team with a proven track record of execution and innovation.*** Our founding team has spent the last three decades developing and commercializing connectivity products. Over the last four years, we have introduced products at a steady cadence with leading PCIe, Ethernet, and CXL solutions.

## **Growth Strategies**

Today, our connectivity solutions are at the heart of major AI platforms deployed worldwide, featuring both commercially available GPUs and proprietary AI accelerators. We have become a trusted partner and a proven supplier to our hyperscaler and system OEM customers. Building on this foundation, the strategic tenets of our growth strategy include:

***Increase sales to our existing customers as cloud and AI workloads continue to grow exponentially.*** We have established a leading market position with Aries, which is deployed across all of the major hyperscalers' and system OEMs' platforms, and we expect to drive future growth as our customers ramp up their platform deployments. Our Taurus and Leo product families are expected to further expand sales to our current customers as they complete technical qualification and are deployed across our customers' cloud and AI infrastructure.



***Increase our revenue-per-server-rack with generational upgrades and new products.*** We continue to invest in the development of new products and technologies that will address new types of functionalities, and span additional form factors across new types of media:

- *Generational upgrades drive increasing value for our product families* – As the industry deploys next-generation protocols, we will provide updates to our product families, which we expect will drive an increase in our value proposition and enhance our revenue on a like-for-like basis compared to prior product generations.
- *Increase in attach rates* – We anticipate an increase in attach rates for our product families in next-generation system topologies due to higher data rates, larger physical system footprints, and greater memory bandwidth and capacity requirements.
- *Develop new products to service emerging opportunities* – As cloud and AI infrastructure requirements scale, we foresee emerging use cases that require new functionalities, which we plan to address with additional product families.

***Shape emerging connectivity standards to drive future product adoption.*** As generational advancements in standard connectivity protocols emerge, we believe our proactive involvement with data center infrastructure ecosystem participants will enable us to grow our product offerings, ensuring sustained and robust growth.

***Attract and acquire new and emerging customers focused on AI.*** We foresee emerging demand from companies that provide infrastructure for AI use cases, AI-dedicated data centers, and larger enterprises, as they begin to build systems to meet their unique requirements.

***Leverage our differentiated products and technologies into new data intensive end-markets.*** We believe that the products and technologies that we have developed can be leveraged for different use cases in adjacent growth markets for data-intensive applications such as wireless communications infrastructure and automotive.

***Selectively pursue strategic investments or acquisitions to enhance our competitive positioning.*** Although we expect to focus our growth strategies on organic expansion, we may pursue future investments or acquisitions that complement our Intelligent Connectivity Platform.

### **Risk Factors Summary**

Our business is subject to numerous risks and uncertainties that you should consider before investing in our common stock. These risks are described more fully in the section titled “Risk Factors” immediately following this prospectus summary. These risks include, but are not limited to, the following:

- We may not sustain our growth rate, and we may not be able to manage future growth effectively;
- We have a history of generating net losses, and if we are unable to achieve adequate revenue growth while our expenses increase, we may not maintain profitability in the future;
- We have a limited operating history, and we may have difficulty accurately predicting our future revenue for the purpose of appropriately budgeting and adjusting our expenses;
- We may be unsuccessful in anticipating and responding to new market trends and evolving industry standards, developing and selling new products, or penetrating new markets;
- A substantial portion of our revenue is driven by a limited number of our end customers, and the loss of, or a significant reduction in, demand from one or a few of our top end customers would adversely affect our operations and financial condition;
- If we fail to achieve design wins for our products, we may lose the opportunity for sales to customers for a significant period of time and be unable to recoup our investments in our products;
- Pricing for the current generation of our existing products often decreases over time, which could negatively impact our revenue and gross margins;



- We generally do not maintain long-term supply contracts with our third-party manufacturing partners, and any disruption in our supply of products could have a material adverse effect on our business, financial condition, and results of operations;
- We rely on our relationships with leaders in the data center infrastructure ecosystem to test and validate our products at a system level and our inability to continue to develop or maintain such relationships in the future would harm our ability to remain competitive;
- We have identified material weaknesses in our internal control over financial reporting and may identify additional material weaknesses in the future or fail to maintain an effective system of internal control over financial reporting. If our remediation of the material weaknesses is not effective, or we fail to develop and maintain effective internal control over financial reporting, our ability to produce timely and accurate financial statements or comply with applicable laws and regulations could be impaired, which could harm our business and negatively impact the value of our common stock;
- If we are unable to attract, train, and retain qualified personnel, particularly our design and technical personnel, we may not be able to execute our business strategy effectively;
- Cybersecurity risks, including cyber-attacks, data breaches, and system vulnerabilities could adversely affect our business and disrupt our operations;
- Our business, financial condition, and results of operations could be adversely affected by worldwide economic conditions, as well as political and economic conditions in the countries in which we conduct business;
- We may pursue acquisitions, investments, joint ventures, and dispositions, which could adversely affect our results of operations, and any acquisitions we do make could disrupt our business and harm our financial condition;
- We operate in intensely competitive markets. Our failure to compete effectively, including as a result of industry consolidation, would harm our results of operations;
- Unfavorable or uncertain conditions in the cloud market, as well as for AI infrastructures, may cause fluctuations in our rate of revenue growth or financial results;
- Our failure to protect our intellectual property rights adequately could impair our ability to compete effectively or to defend ourselves from litigation, which could harm our business, financial condition, and results of operations; and
- There has been no prior public market for our common stock and an active, liquid, and orderly trading market may not develop or be sustained following this offering, which could harm the market price of our common stock.

If we are unable to adequately address these and other risks we face, our business, results of operations, financial condition, and prospects may be harmed, the trading price of our common stock could decline, and you could lose all or part of your investment.

#### **Channels for Disclosure of Information**

Following the completion of this offering, we intend to announce material information to the public through filings with the SEC, the investor relations page on our website, blog posts on our website, press releases, public conference calls, webcasts, our X (f/k/a Twitter) feed (@Asteralabs), YouTube channel, and our LinkedIn page.

The information disclosed through the foregoing channels could be deemed to be material information. As such, we encourage investors, the media, and others to follow the channels listed above and to review the information disclosed through such channels.

Any updates to the list of disclosure channels through which we will announce information will be posted on the investor relations page on our website. Information contained on or accessible through any of the foregoing channels is not incorporated by reference into this prospectus.

### **Corporate Information**

We were incorporated in Delaware in October 2017 under the name Astera Labs, Inc. Our principal executive offices are located at 2901 Tasman Drive, Suite 205, Santa Clara, CA 95054, and our telephone number is (408) 337-9056. Our website address is [www.asteralabs.com](http://www.asteralabs.com). Information contained on or that can be accessed through our website does not constitute part of this prospectus and the inclusion of our website address in this prospectus is intended to be an inactive textual reference only. You should not consider information contained on our website to be part of this prospectus or in deciding whether to purchase shares of our common stock.

We use various trademarks and trade names in connection with the operation of our business, including, without limitation, our corporate name and logo. This prospectus may also contain trademarks, service marks, and trade names of third parties, which are the property of their respective owners. Our use or display of third parties' trademarks, service marks, trade names, or products in this prospectus is not intended to, and does not imply, a relationship with, or endorsement or sponsorship by us. Solely for convenience, the trademarks, service marks, and trade names referred to in this prospectus may appear without the ®, ™, or SM symbols, but the omission of such references is not intended to indicate, in any way, that we will not assert, to the fullest extent under applicable law, our rights, or the right of the applicable owner of these trademarks, service marks, and trade names.

### **Emerging Growth Company**

We are an emerging growth company within the meaning of the Jumpstart Our Business Startups Act of 2012 (the "JOBS Act"). As an emerging growth company, we may take advantage of certain exemptions from various public reporting requirements, including the requirement that our internal control over financial reporting be audited by our independent registered public accounting firm pursuant to Section 404 of the Sarbanes-Oxley Act of 2002 (the "Sarbanes-Oxley Act"), certain requirements related to the disclosure of executive compensation in this prospectus and in our periodic reports and proxy statements, and the requirement that we hold a non-binding advisory vote on executive compensation and any golden parachute payments. We may choose to take advantage of some but not all of these exemptions. We have taken advantage of reduced reporting requirements in this prospectus. Accordingly, the information contained herein may be different from the information you receive from other public companies in which you hold stock.

We may take advantage of these exemptions for up to five years or such earlier time that we are no longer an emerging growth company. We will remain an emerging growth company until the earliest to occur of (i) the last day of the fiscal year in which we have more than \$1.235 billion in annual revenue; (ii) the date we qualify as a "large accelerated filer," with at least \$700 million of equity securities held by non-affiliates; (iii) the date on which we have issued, in any three-year period, more than \$1.0 billion in non-convertible debt securities; and (iv) the last day of the fiscal year ending after the fifth anniversary of the completion of this offering.

In addition, under the JOBS Act, emerging growth companies can delay adopting new or revised accounting standards until such time as those standards apply to private companies. We have elected to use this extended transition period until we are no longer an emerging growth company or until we affirmatively and irrevocably opt out of the extended transition period. Accordingly, our financial statements may not be comparable to companies that comply with new or revised accounting pronouncements as of public company effective dates.

For certain risks related to our status as an emerging growth company, see the section titled "Risk Factors—We are an emerging growth company, and any decision on our part to comply only with certain reduced reporting and disclosure requirements applicable to emerging growth companies could make our common stock less attractive to investors."



- shares of our common stock issuable upon the exercise of warrants to purchase shares of our common stock outstanding as of December 31, 2023, with a weighted-average exercise price of \$ \_\_\_\_\_ per share;
- shares of our common stock reserved for future issuance pursuant to our 2018 Equity Incentive Plan (“2018 Plan”), which shares will be added to the shares of our common stock reserved for future issuance under our 2024 Stock Option and Incentive Plan (“2024 Plan”), which we intend to adopt in connection with this offering;
- shares of our common stock reserved for future issuance under our 2024 Plan; and
- shares of our common stock reserved for future issuance under our 2024 Employee Stock Purchase Plan (“ESPP”), which we intend to adopt in connection with this offering.

Each of our 2024 Plan and our ESPP provide for annual automatic increases in the number of shares of our common stock reserved thereunder, and our 2024 Plan provides for increases to the number of shares of our common stock that may be granted thereunder based on shares underlying any awards under our 2018 Plan that expire, are forfeited, or are otherwise terminated, as more fully described in the section titled “Executive Compensation—Employee Benefit and Equity Compensation Plans.”

Except as otherwise indicated, all information in this prospectus assumes:

- the filing and effectiveness of our second amended and restated certificate of incorporation in Delaware and the adoption of our second amended and restated bylaws, each of which will occur immediately prior to the completion of this offering;
- the automatic conversion of \_\_\_\_\_ shares of our convertible preferred stock outstanding as of December 31, 2023 into an equal number of shares of our common stock, the conversion of which will occur immediately prior to the completion of this offering;
- the net issuance of \_\_\_\_\_ shares of our common stock issuable pursuant to the vesting and settlement of \_\_\_\_\_ RSUs outstanding as of December 31, 2023 for which the time condition was satisfied as of December 31, 2023, and for which the liquidity event condition will be satisfied upon completion of this offering (based on an assumed \_\_\_\_\_ % tax withholding rate);
- no exercise by the underwriters of their option to purchase up to an additional \_\_\_\_\_ shares of common stock from us in this offering; and
- no exercise of outstanding stock options or warrants or settlement of outstanding RSUs subsequent to December 31, 2023, except as described above.

## SUMMARY CONSOLIDATED FINANCIAL AND OTHER DATA

The following tables summarize our historical consolidated financial and other data for the periods and dates indicated. We derived the summary historical consolidated statements of operations and comprehensive loss data for the years ended December 31, 2022 and 2023, and the consolidated balance sheet data as of December 31, 2023, from our audited consolidated financial statements included elsewhere in this prospectus. Our historical results are not necessarily indicative of the results that may be expected in the future. You should read the following summary consolidated financial and other data below in conjunction with the sections titled “Risk Factors,” “Capitalization,” “Management’s Discussion and Analysis of Financial Condition and Results of Operations” and our consolidated financial statements and related notes included elsewhere in this prospectus.

|  | Year Ended<br>December 31,                  |      |
|--|---|------|
|  | 2022  | 2023 |
|  | (in thousands, except<br>per share amounts) |      |
| <b>Consolidated Statement of Operations and Comprehensive Loss:</b>  |   |      |
| Revenue  | \$ 79,872                                   | \$   |
| Cost of revenue <sup>(1)</sup>   | 21,191                                      |      |
| Gross profit   | 58,681                                      |      |
| Operating expenses:  |   |      |
| Research and development <sup>(1)</sup>  | 73,711                                      |      |
| Sales and marketing <sup>(1)</sup>   | 24,407                                      |      |
| General and administrative <sup>(1)</sup>  | 20,757                                      |      |
| Total operating expenses   | 118,875                                     |      |
| Operating loss   | (60,194)                                    |      |
| Interest income  | 2,613                                       |      |
| Loss before income taxes   | (57,581)                                    |      |
| Income tax provision   | 764   |      |
| Net loss   | \$ (58,345)                                 |      |
| Net loss per share attributable to common stockholders, basic and diluted <sup>(2)</sup>   | \$ (0.85)                                   | \$   |
| Weighted-average shares used in calculating net loss per share attributable to common stockholders, basic and diluted <sup>(2)</sup>           | 68,343                                      |      |
| Pro forma net loss per share attributable to common stockholders, basic and diluted <sup>(3)</sup>   |   | \$   |
| Weighted-average shares used in calculating pro forma net loss per share attributable to common stockholders, basic and diluted <sup>(3)</sup> |   |      |

(1) Includes stock-based compensation expense as follows (in thousands):

|                                | Year Ended<br>December 31, |      |
|--------------------------------|----------------------------|------|
|                                | 2022                       | 2023 |
| Cost of revenue                | \$ 10                      | \$   |
| Research and development       | 11,223                     |      |
| Sales and marketing            | 10,148                     |      |
| General and administrative     | 8,854                      |      |
| Total stock-based compensation | \$30,235                   | \$   |

Stock-based compensation for the year ended December 31, 2022 includes \$17.7 million related to secondary transactions for the quarter ended June 30, 2022. See Note 10 to our consolidated financial statements included elsewhere in this prospectus for additional details on the secondary transactions.

- (2) See Note 11 to our consolidated financial statements included elsewhere in this prospectus for an explanation of the method used to calculate our basic and diluted net loss per share and the weighted average number of shares used in the computation of per share amounts.
- (3) The pro forma weighted-average shares used in computing pro forma net loss per share for the year ended December 31, 2023 assumes (i) the net issuance of shares of our common stock pursuant to the vesting and settlement of RSUs for which the time condition was satisfied as of December 31, 2023, and for which the liquidity event vesting condition was satisfied upon completion of this offering, after withholding shares to satisfy the associated estimated income tax obligations, and (ii) the automatic conversion of all outstanding shares of redeemable convertible preferred stock into an aggregate of shares of common stock as if the conversion occurred on January 1, 2023. The pro forma net loss used to calculate pro forma net loss per share reflects the cumulative stock-based compensation expense related to RSUs for which the time condition was satisfied as of year ended December 31, 2023. For the purposes of the pro forma calculation, we assumed the liquidity event vesting condition occurred as of January 1, 2023.

|   | As of December 31, 2023 |                                   |                                 |
|---|-------------------------|-----------------------------------|---------------------------------|
|   | Actual                  | Pro<br>Forma(1)<br>(in thousands) | Pro<br>Forma, As<br>Adjusted(2) |
| <b>Consolidated Balance Sheet Data:</b> |                         |                                   |                                 |
| Cash and cash equivalents               | \$                      | \$                                | \$                              |
| Working capital(3)                      |                         |                                   |                                 |
| Total assets                            | _____                   | _____                             | _____                           |
| Total liabilities                       | _____                   | _____                             | _____                           |
| Total stockholders' deficit             | _____                   | _____                             | _____                           |

- (1) The pro forma column above gives effect to (i) the filing and effectiveness of our second amended and restated certificate of incorporation in Delaware and the adoption of our second amended and restated bylaws, which will occur immediately prior to the completion of this offering; (ii) the automatic conversion of all of our outstanding convertible preferred stock into an equal number of shares of common stock; (iii) the net issuance of \_\_\_\_\_ shares of our common stock issuable pursuant to the vesting and settlement of RSUs for which the time condition was satisfied as of December 31, 2023, and for which the liquidity event condition will be satisfied upon completion of this offering, after withholding an aggregate of \_\_\_\_\_ shares to satisfy associated estimated income tax obligations (based on an assumed \_\_\_\_\_ % tax withholding rate); (iv) the increase in other accrued liabilities and an equivalent decrease in additional paid-in capital in connection with tax withholding and remittance obligations related to such RSUs, based upon the initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, all of which will occur immediately prior to the completion of this offering, as if such actions had occurred on December 31, 2023; and (v) \$ \_\_\_\_\_ million of cumulative share-based compensation expense related to the RSUs for which the time condition was satisfied as of December 31, 2023, which expense was unrecognized as of December 31, 2023, and for which the liquidity event condition will be satisfied upon completion of this offering.
- (2) The pro forma as adjusted column above gives further effect to (i) the pro forma adjustments set forth above and (ii) the sale of \_\_\_\_\_ shares of common stock in this offering at an assumed initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the price range set forth on the cover page of this prospectus, after deducting estimated underwriting fees and commissions and estimated offering expenses payable by us. This pro forma as adjusted information is illustrative only and will depend on the actual initial public offering price and other terms of this offering determined at pricing. Each \$1.00 increase or decrease in the assumed initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the

price range set forth on the cover page of this prospectus, would increase or decrease the pro forma as adjusted amount of each of cash and cash equivalents, working capital, total assets, and total stockholders' deficit by \$ \_\_\_\_\_, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. Each increase or decrease of 1.0 million in the number of shares we are offering would increase or decrease the pro forma as adjusted amount of each of cash and cash equivalents, working capital, total assets, and stockholders' deficit by \$ \_\_\_\_\_, assuming no change in the assumed initial public offering price per share and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us.

- (3) Working capital is defined as total current assets less total current liabilities. See our consolidated financial statements and the related notes thereto included elsewhere in this prospectus for further details regarding our current assets and current liabilities.

## RISK FACTORS

*Investing in our common stock involves a high degree of risk. You should carefully consider the risks and uncertainties described below, together with all of the other information in this prospectus, before making a decision to invest in our common stock. If any of these risks actually occur, our business, results of operations, financial condition, and prospects could be materially adversely affected. In that event, the trading price of our common stock could decline, and you could lose part or all of your investment. Certain statements contained in the risk factors described below are forward-looking statements. See the section titled "Special Note Regarding Forward-Looking Statements" for more information.*

### Risks Related to Our Business

***We may not sustain our growth rate, and we may not be able to manage future growth effectively.***

We have experienced significant growth in a short period of time. Our revenue increased from \$79.9 million for the year ended December 31, 2022 to \$ \_\_\_\_\_ for the year ended December 31, 2023. We may not achieve similar growth rates in future periods. You should not rely on our operating results for any prior quarterly or annual periods as an indication of our future operating performance. If we are unable to maintain adequate revenue growth, our financial results could suffer, and our stock price could decline.

To manage our growth successfully and handle the responsibilities of being a public company, we believe we must effectively, among other things:

- recruit, hire, train, and manage additional qualified personnel for our research and development activities;
- continue to make significant investments in our new and existing products;
- add additional sales personnel; and
- implement and improve our administrative, financial and operational systems, procedures, and controls.

If we are unable to manage our growth effectively, we may not be able to take advantage of market opportunities or develop new products, and we may fail to satisfy customer requirements, maintain product quality, execute our business plan, or respond to competitive pressures.

***We have a history of generating net losses, and if we are unable to achieve adequate revenue growth while our expenses increase, we may not maintain profitability in the future.***

We have a history of generating net losses. We incurred net losses of \$58.3 million and \$ \_\_\_\_\_ million for the years ended December 31, 2022 and 2023, respectively. As of December 31, 2022, we had an accumulated deficit of \$99.1 million. These losses and our accumulated deficit are a result of the substantial investments we have made to grow our business. We expect our costs will increase over time and our losses may continue if such increases in costs are not more than fully offset by increases in our revenue. We expect to continue to invest significant additional funds in expanding our business and research and development activities as we continue to develop new products. We also expect to incur additional general and administrative expenses as a result of our growth and expect our costs to increase to support our operations as a public company. Historically, our costs have increased over the years due to these factors, and we expect to continue to incur increasing costs to support our anticipated future growth.

Following the completion of this offering, the stock-based compensation expense related to our RSUs will result in increases in our expenses in future periods, in particular in the quarter in which this offering is completed for RSUs for which the time condition will be satisfied and for which the liquidity event condition will be satisfied upon completion of this offering. Additionally, we may expend substantial funds in connection with the tax withholding and remittance obligations that arise upon the initial settlement of certain of our RSUs.



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If our revenue or revenue growth rate declines or our operating expenses exceed our expectations, our financial performance will be adversely affected. We will need to generate and sustain increased revenue levels in future periods in order to maintain profitability. If we cannot successfully grow our revenue at a rate that exceeds the costs associated with our business, we will not be able to maintain profitability, and the trading price of our common stock could decline.

***We have a limited operating history, and we may have difficulty accurately predicting our future revenue for the purpose of appropriately budgeting and adjusting our expenses.***

We were established in October 2017. Our limited operating experience, a dynamic and rapidly evolving market in which we sell our products, our dependence on a limited number of customers, as well as numerous other factors beyond our control, could impede our ability to forecast quarterly and annual revenue accurately. As a result, we could experience budgeting and cash flow management problems, unexpected fluctuations in our results of operations and other challenges, any of which could make it difficult for us to maintain profitability and could increase the volatility of the market price of our common stock.

***We may be unsuccessful in anticipating and responding to new market trends and evolving industry standards, developing and selling new products, or penetrating new markets.***

We operate in an industry characterized by rapidly changing technologies and evolving industry standards. We believe that our future success depends on our ability to develop and introduce new technologies and products that generate new sources of revenue to replace, or build upon, existing product revenue streams. If we are not able to repeatedly introduce, in successive years, new products or new generations of existing products that ship in volume and meet customer demands, our revenue will likely not grow and may decline significantly and rapidly.

To compete successfully, we must design, develop, market, and sell new products or new generations of existing products that provide increasingly higher levels of performance while meeting evolving industry standards, and the cost and quality expectations, of our customers. The introduction of new products by our competitors, the delay or cancellation of a system for which any of our products are designed in, the market acceptance of products based on new or alternative technologies, or the emergence of new industry standards could render our existing or future products uncompetitive, obsolete, or otherwise unmarketable.

Our failure to anticipate or timely develop new products or new generations of existing products in response to technological shifts or evolving industry standards could result in decreased revenue and our competitors securing a competitive advantage. In particular, we may experience difficulties with product design, manufacturing, assembly, test, and qualification or marketing that could delay or prevent our development, introduction, or marketing of new or enhanced products. Although we believe our products comply with applicable industry standards, our existing and new products may not fully conform under all circumstances, and we are unable to guarantee that proprietary enhancements in the future will fully conform with applicable industry standards under all circumstances as industry standards evolve and change.

Products for our target markets are based on industry standards that are continually evolving, and industry standards are often developed and promoted by larger companies who are industry leaders and provide other components of the systems into which our products are incorporated. In choosing products to develop, we also make certain assumptions about which industry standards we believe will be adopted by industry leaders. For example, CXL connectivity solutions are in the early stages of market adoption. If our assumptions are incorrect, and larger companies do not support the same industry standards that we do, or if competing standards emerge, it could be difficult for our products to meet the requirements of certain customers. As a result, if we fail to introduce new products or new generations of our existing products that meet prevailing industry standards and the needs of our customers, or penetrate new markets in a timely fashion, and our designs do not gain acceptance, we will likely lose market share and our competitive position, potentially on an extended basis, and our operating results will be adversely affected.

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Our competitiveness and future success depend on our and our third-party manufacturing partners' ability, as applicable, to design, develop, manufacture, assemble, and test new products and product enhancements on a timely and cost-effective basis. Our failure to anticipate fundamental shifts in technologies in any of our product markets, to develop new technologies or to react to changes in existing technologies could materially delay our development of new products or new generations of our existing products. For example, we anticipate that our customers will continue to have increasing needs for connectivity and memory products as a result of the increased adoption of the cloud and AI infrastructure, and if we are unable to successfully design and produce products that our customers can incorporate into their cloud and AI systems, we expect that our competitive positioning and financial performance would be harmed as our competitors more effectively help our customers scale into these developing sectors.

We believe the success of new products depends on accurate forecasts of long-term market demand and future technological developments, as well as on a variety of specific implementation factors, including:

- timely and efficient completion of our design and transfer to manufacturing, assembly, and test processes;
- the quality, performance, and reliability of our products; and
- effective marketing, sales, and service.

If we fail to introduce new products or new generations of existing products that meet the demand of our customers or penetrate new markets that we have targeted, our revenue will likely decrease over time and our financial condition could suffer.

***A substantial portion of our revenue is driven by a limited number of our end customers, and the loss of, or a significant reduction in, demand from one or a few of our top end customers would adversely affect our operations and financial condition.***

A substantial portion of our revenue is driven by a limited number of end customers. We recognized (in most cases through distributors, rather than directly from end customers) an aggregate of approximately 89% of our revenue from our top three end customers for the year ended December 31, 2022. In 2022, a majority of our revenue was derived from one end customer. In 2023, no end customer represented more than one third of our revenue; the top three end customers represented an aggregate of approximately % of our revenue. Our distributors and end customers' manufacturing partners provide us with information in their purchase orders about which end customer will receive the products purchased. This data allows us to estimate the portion of our revenue that is due to specific end customer demand. We anticipate that we will continue to be dependent on a limited number of end customers for a significant portion of our revenue in the future, and in some cases, the portion of our revenue attributable to certain end customers may increase in the future. However, we may not be able to maintain or increase sales to certain of our top end customers for a variety of reasons, including the following:

- our master agreements with our end customers generally do not require them to purchase a minimum quantity of our products and our end customers' demand for our products may be volatile;
- some of our end customers may redesign their systems to use fewer or none of our products with limited notice to us; and
- many of our end customers have pre-existing or concurrent relationships with our current or potential competitors that may affect such end customers' decisions to purchase our products.

End customer relationships often require us to develop new products that may involve significant technological and design challenges, and our end customers frequently place considerable pressure on us to meet tight development schedules. Accordingly, we may have to devote a substantial amount of our resources to our strategic relationships, which could detract from or delay our completion of other important development projects. Delays in development could impair our relationships with our end customers and negatively impact forecasted sales of the products under development. Moreover, it is possible that our end customers may develop their own products that may compete with our solutions, or adopt a competitor's solution for products that they currently buy from us. If that happens, our sales would be adversely impacted and our business, financial condition, and results of operations would be materially and adversely affected.

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In addition, to attract new customers or retain existing end customers, we may offer (in some cases through distributors) certain customers favorable prices for our products. In that event, our revenue and gross margins may decline. The loss of a top end customer, a reduction in sales to any top end customer, or our inability to attract new end customers could impact our revenue and materially and adversely affect our results of operations.

***If we fail to achieve design wins for our products, we may lose the opportunity for sales to customers for a significant period of time and be unable to recoup our investments in our products.***

Our business is dependent on design wins. Design wins occur once a customer has validated and placed an order for our product(s). We often incur significant expenditures in the development of a new product or new generation of an existing product without any assurance that our customers will select our product for use in their systems. Additionally, we are often required to anticipate which product designs will generate demand in advance of our customers expressly indicating a need for that particular design. Even if our customers select our products, a substantial period of time will elapse before we generate revenue related to the significant expenses we have incurred. The reasons for this delay generally include the following elements of our product sales and development cycle timeline and related influences:

- our customers usually require a comprehensive technical evaluation of our products before they incorporate them into their designs;
- it can take up to two years from the time a design win is secured to commencement of volume commercial shipments (assuming no changes in market conditions or customer development schedules); and
- our customers may be impacted by changing market conditions, product development issues of their own, or choose to delay their system designs.

The resources devoted to product development and sales and marketing may not generate material revenue for us, and we have needed in the past, and may need in the future, to write off excess and obsolete inventory if we have produced a product in excess of forecasted demand which does not materialize. If we incur significant expenses and investments in inventory in the future that we are not able to recover, and we are not able to compensate for those expenses, our operating results could be adversely affected.

A design win does not guarantee sales to a customer. A delay or cancellation of a customer's plans could materially and adversely affect our financial results, as we incur significant expense in the design process and may generate little or no revenue from it. In addition, the timing of design wins is unpredictable and supporting production for a major design win, or multiple design wins at the same time, may strain our resources. In such event, we may be forced to dedicate significant additional resources and incur additional costs and expenses. Customers could also choose at any time to stop using our products, or could fail to successfully market and sell their products, either of which could reduce demand for our products.

Once a customer designs a product into its systems, the same product or enhanced versions of that product from the same supplier is likely to be used across a number of similar and successor products. This can be for a lengthy period of time due to the significant costs associated with qualifying a new supplier and potentially redesigning the product to incorporate a different solution. If a customer initially chooses a competitor's product, it becomes more difficult for us to sell our products for use in that system because changing suppliers can involve significant cost, time, effort, and risk for our customers, and additional design opportunities may be infrequent or delayed. Thus, our failure to obtain a design win can result in our foregoing revenue from a given customer's system for the life of that system. Our ability to compete in the future will depend, in large part, on our ability to develop products that comply with our customers' and potential customers' system specifications. However, even if our customers use our products in their systems, these customers may not deploy their systems in volume and we may not receive significant revenue from the sales of our products for those systems. As a result, we may be unable to accurately forecast the volume and timing of our orders and revenue associated with any new product introductions.

***We may experience difficulties demonstrating to customers the value of our new products or newer generations of our existing products.***

As we develop and introduce new products or new generations of our existing products, we face the risk that customers may not value or be willing to bear the cost of incorporating these newer products into their systems, and may forego adopting one or more newer generations of our existing products. Regardless of the improved features or superior performance of the newer products, customers may be unwilling to adopt our new products due to design or pricing constraints, among other reasons. Even if customers choose to adopt our new products or new generations of our existing products, they may be slow to do so, which may result in certain of our products selling more frequently than other products for sustained periods of time. For example, most of our historical sales have been for our Aries product family. Because of the extensive time and resources that we invest in researching and developing new products and new generations of our existing products, if we are unable to sell new products or new generations of our existing products, our revenue could decline and our business, financial condition, and results of operations would be negatively affected.

***We rely on a limited number of third-party manufacturing partners for our manufacturing and supply chain services, and the failure to manage our relationships successfully with our third-party manufacturing partners in order to obtain adequate services and supplies could adversely affect our ability to market and sell our products and our reputation.***

We operate an outsourced manufacturing business model. We currently partner with TSMC to manufacture our integrated circuits. TSMC is our sole manufacturing partner for our integrated circuits and we currently have not qualified another source. We also use Advanced Semiconductor Engineering and Amkor Technologies to assemble, package, and test our integrated circuits. We also rely on a small, limited number of other manufacturing partners for our modules, boards, and integrated circuit substrates. Relying on third-party manufacturing partners presents significant risks, including:

- failure by us, our customers, or their customers to qualify a selected supplier;
- capacity shortages during periods of high demand;
- reduced control over delivery schedules and quality;
- shortages of materials;
- third parties infringing, misappropriating, or otherwise violating our intellectual property rights;
- impairment of the operation of our products if errors or other defects occur in the third-party technologies we use, and difficulties correcting such errors or defects because the development and maintenance of those technologies is not within our control;
- limited warranties on products supplied to us; and
- potential increases in prices or reduced yields.

The ability and willingness of our third-party manufacturing partners to perform is largely outside of our control. If one or more of our third-party manufacturing partners or other outsourcers fails to perform its obligations in a timely manner or at satisfactory quality levels, our ability to bring products to market and our reputation could suffer. In particular, if TSMC is unable to supply us with sufficient quantities of wafers to meet all of our requirements, we could have difficulties fulfilling our customer orders and our revenue could decline. In addition, if our third-party manufacturing partners fail to deliver quality services, products, and components on time and at reasonable prices, we could have difficulties fulfilling our customer orders, which would materially and adversely affect our business, financial condition, and results of operations.

***Our third-party manufacturing partners and distributors, and the majority of our revenue, are concentrated primarily in Taiwan, China, and South Korea, areas that are or may be subject to geopolitical uncertainty, trade disputes and restrictions, environmental disasters, and other risks. Any disruption to the operations of these manufacturing partners or distributors could cause significant delays in the production or shipment of our products and impact our financial condition.***

Our success depends in part on the uninterrupted and reliable operation of our business, including the operation of our day-to-day business operations, or manufacturing, assembly, and testing done by our third-party manufacturing partners and other vendors. Unforeseen disruption of the production or distribution of our products could be caused by a number of events, including a maintenance outage, systems outage or other disruption, power or equipment failure, fires, floods, earthquakes or other natural disasters, social unrest or terrorist activity, work stoppages, public health concerns (including pandemics), regulatory measures, or other operational problems. For example, the foundry used by our primary manufacturer, TSMC, as well as our primary distributor, is located in Taiwan. The risk of an earthquake in Taiwan and elsewhere in the Pacific Rim region on our business is significant due to the proximity of major earthquake fault lines to the foundry's facilities. Any disruption resulting from such events could cause significant delays in the production or shipment of our products until we are able to shift our manufacturing from the affected location to another location. We may not be able to obtain alternate capacity on favorable terms, if at all.

In addition, our dependence on our relationship with our third-party manufacturing partners or distributors may be affected by changes in governmental policies, taxation, rising inflation or interest rates, social instability, geopolitical conflicts and tensions, and diplomatic and social developments which are outside of our control. The occurrence of such events may have an adverse impact because the majority of our revenue derives from sales into East Asia, including our largest distributor which accounted for 81.7% and % of our revenue, respectively, for the years ended December 31, 2022 and 2023. For example, since 1949, Taiwan and mainland China have been separately governed. Although significant economic and cultural relations have been established between Taiwan and mainland China in the past few years, past developments in relations between Taiwan and mainland China have on occasion depressed the market prices of the securities of companies doing business in Taiwan, and may depress the price of our common stock. Additionally, trade tensions between the United States and China may lead to restrictions on our ability to use our third-party manufacturing partners or distributors located in China or may impose restrictions such that our use of such manufacturing partners or distributors may no longer be practical or on terms favorable to us. Further, continued or heightened tension between South Korea and North Korea, an outbreak in military hostilities, or other actions or occurrences could cause significant delays in the production or shipment of our products until we are able to shift our manufacturing, assembling, testing, or distribution from the affected contractor to another third-party.

Furthermore, our industry generally relies on a limited number of manufacturers whose operations tend to be concentrated in Taiwan and other parts of East Asia, which makes us especially susceptible to adverse developments in these regions' economic and political conditions, particularly to the extent that such developments create an unfavorable business environment that significantly affects our and our customers' operations. Although the governments of certain countries, including the United States, have taken actions to make their countries more attractive for chip manufacturing operations, there can be no assurances that the current geographic concentration of chip manufacturing will be meaningfully changed in the near term or at all.

If any of these events, or other macroeconomic trends, should cause a prolonged disruption of operations that impact our third-party manufacturing partners, we may see operational downtimes or operation at reduced capacities, preventing us from completing our operations or production in a timely manner, leading to loss of business volume and reduced productivity or profitability which could have a material adverse effect on our business, financial conditions, and results of operations. Given the concentration of chip manufacturing in Taiwan and other parts of East Asia, as well as the other risks described herein, we may not be able to obtain alternate service or materials quickly and on favorable terms, if at all. Any unplanned production downtime or other operational problems and delays, if significant, could have a material adverse effect on our business, financial condition, and results of operations.

***Our customers require our products and our third-party manufacturing partners to undergo a lengthy and expensive qualification process which does not assure volume product sales. If we are unsuccessful or delayed in qualifying any of our products with a customer, our business and operating results would suffer.***

Prior to purchasing our products and deploying them in volume in their systems, our customers require that our products and our third-party manufacturing partners undergo extensive qualification processes, which involve testing of our products in our customers' systems, as well as testing for reliability. This qualification process may continue for several months or more. Moreover, qualification of a product by a customer does not assure any sales of the product to that customer. Further, even after successful qualification and sales of a product to a customer, a subsequent revision in our third-party contractors' manufacturing process or our selection of a new supplier may require a new qualification process by our customers, which may result in delays and in our holding excess or obsolete inventory. After our products are qualified, it can take several months or more before the customer commences volume deployment of our products in their systems. Despite these uncertainties, we devote substantial resources, including design, engineering, sales, marketing, technical support, and management efforts, to qualify our products with customers in anticipation of sales. If we are unsuccessful or delayed in qualifying any of our products with a customer, sales of those products to the customer may be precluded or delayed, which may impede our growth and materially and adversely affect our business, financial condition, and results of operations.

***We make substantial investments in research and development, and unsuccessful investments could materially adversely affect our business, financial condition, and results of operations.***

The industry in which we compete is characterized by rapid technological change, changes in customer requirements, frequent new product introductions and enhancements, short product cycles and evolving industry standards, and new delivery methods. In addition, the fabrication of semiconductor products has transitioned over time to increasingly smaller line width geometries, and failure to successfully transition to product designs utilizing smaller geometry process nodes could impair our competitive position. In order to remain competitive, we have made, and expect to continue to make, significant investments in research and development. For the years ended December 31, 2022 and 2023, research and development expenses were \$73.7 million and \$                      million, respectively. If we fail to develop new and enhanced products and technologies, if we focus on technologies that do not become widely adopted, or if new competitive technologies or industry standards that we do not support become widely accepted, demand for our products may be reduced. Increased investments in research and development or unsuccessful research and development efforts could cause our cost structure to fall out of alignment with demand for our products, which would have a negative impact on our financial results.

***Our future success will depend in large part on our ability to successfully execute our strategy.***

Our business strategy is to maximize our return on investment by aligning with our customers to address high-value problem sets. We are still in the process of implementing our strategy to align with this select customer group, and we cannot be certain that this strategy will succeed. To succeed, we will need to significantly increase sales to our existing customers in the cloud and AI markets, continue to pursue adoption of our PCIe, Ethernet, and CXL connectivity solutions, increase our value-per-product and leverage our differentiated product families to grow with our customers into new data intensive end-markets, including developing, introducing, and marketing new products and technologies on a timely basis.

***Our gross margins may decline due to a variety of factors, which could negatively impact our results of operations and our financial condition.***

Our gross margins may decline due to a number of factors, including customer and product mix, revenue mix between various offerings, market acceptance of our new products, yield, pricing, packaging and testing costs, competitive pricing dynamics, and geographic and market pricing strategies. Increases in gross margins over certain periods may be a result of individual changes in customer need or market shifts, and may not be indicative of future results.

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To attract new customers or retain existing customers, we have in the past and will in the future offer certain customers favorable prices, which would decrease the prices that we receive for our products and likely impact our gross margins. Further, we may also offer pricing incentives to our customers on earlier generations of products that inherently have a higher cost structure, which would negatively affect our gross margins. In addition, in the event our customers, including our larger customers, exert more pressure with respect to pricing and other terms with us, it could put downward pressure on our margins.

In addition, we maintain an inventory of our products at various stages of production and in finished goods inventory. We hold these inventories in anticipation of customer orders. If those customer orders do not materialize in a timely manner, we may have excess or obsolete inventory which we would have to reserve or write-down, and our gross margins would be adversely affected.

***Pricing for the current generation of our existing products often decreases over time, which could negatively impact our revenue and gross margins.***

Our operating results may be impacted by a decline in the pricing for the current generation of our existing products. If competition increases in our target markets, we may need to reduce the prices of our existing products in anticipation of competitive pricing pressures, new product introductions by us or our competitors, new generations of such existing products, or for other reasons. If we are unable to offset any reductions in pricing for existing products by increasing our sales volumes or introducing new products or new product generations of such existing products with higher margins, our revenue and gross margins will suffer. To maintain our revenue and gross margins, we must develop and introduce new products, next-generation products, and product enhancements on a timely basis and continually reduce our costs as well as our customers' costs. Failure to do so may cause our revenue and gross margins to decline.

***Fluctuations in the mix of products sold may materially adversely affect our gross margins and financial results.***

Price differences among our products and the mix and types of products sold, including from a features and form factor perspective, may affect the pricing of our products and have a substantial impact on our revenue. Fluctuations in the mix and types of our products may also affect the extent to which we are able to recover our fixed costs and investments that are associated with a particular product, and as a result may negatively and materially impact our financial results.

***If we are unable to accurately predict end customer demand, or if our distributors or end customers' manufacturing partners cancel or change their orders, we may hold excess or obsolete inventory, which would reduce our gross margins and may damage our relationships with our customers.***

Our revenue and operating results could fluctuate materially and could be materially and disproportionately impacted by the purchasing decisions of our end customers. Due to the inability to predict demand or other reasons, some of our distributors and end customers' manufacturing partners may accumulate excess inventories and, as a consequence, defer purchases of our products. For example, in the first quarter of 2023 we had a \$9.7 million charge to write down inventory in excess of our sales forecast for a legacy customer system. Anticipating demand is difficult because our end customers face unpredictable demand for their own products and/or deployment of their own systems. If we overestimate end customer demand, or end customer demand is otherwise impacted by other factors impacting our assumptions, we might produce significant excess inventory, which would reduce our gross margin and adversely affect our financial results. Conversely, if we underestimate customer demand or if insufficient manufacturing capacity is available, we may miss revenue opportunities, potentially lose market share and damage our customer relationships. In addition, as an increasing number of our products are being incorporated into end customer systems, we anticipate greater fluctuations in demand for our products, which makes it more difficult to forecast end customer demand.



***We generally do not maintain long-term supply contracts with our third-party manufacturing partners, and any disruption in our supply of products could have a material adverse effect on our business, financial condition, and results of operations.***

We generally do not have long-term contracts with our third-party manufacturing partners that require them to supply manufacturing capacity, materials, or services, and substantially all of our purchases are on a purchase order basis. We place orders with our third-party manufacturing partners for manufacturing, assembling, and testing our products and purchasing components that are integrated into our products according to our estimates of customer demand many months prior to the anticipated delivery date to our customer. This process requires us to make multiple demand forecast assumptions with respect to our customers' demands in advance of actual purchase orders, each of which may introduce error into our estimates. In addition, while many of our customers are subject to purchase orders or other agreements that do not allow for cancellation without penalty within a certain number of days before the estimated ship date, there can be no assurance that these customers will honor these contract terms, and any cancellation of these orders may adversely affect our business operations and demand forecast which is the basis for us to have products made.

Our third-party manufacturing partners may also extend lead times, limit supplies, place products on allocation, or increase prices that could lead to interruption of supply or increased demand in the industry. For example, the supply of these materials may be negatively impacted by increased trade tensions between the United States and its trading partners, particularly the People's Republic of China. Moreover, TSMC increased the wafer prices we pay in both 2022 and 2023. Our products are incorporated into complex devices and systems, which creates supply chain cross-dependencies. Due to these cross dependencies, any supply chain disruptions could impact the demand for our products in the short term. In the event that we cannot obtain sufficient quantities of materials in a timely manner or at reasonable prices from third-party manufacturing partners, the quality of the material deteriorates or we are not able to pass on higher manufacturing costs to our customers, our business, financial condition, and results of operations could be adversely impacted.

***We rely on our relationships with leaders in the data center infrastructure ecosystem to test and validate our products at a system level and our inability to continue to develop or maintain such relationships in the future would harm our ability to remain competitive.***

We develop many of our products for systems that interoperate with other products sold by leaders in the data center infrastructure ecosystem. We work closely with these industry and technology partners to test and validate our products at a system level. We believe these relationships enhance our ability to achieve market acceptance and widespread adoption of our products. If we are unable to continue to develop or maintain these relationships, or if our products test negatively with these leaders in the data center infrastructure ecosystem, our products may become less desirable to our customers, which would cause our sales to suffer and our competitive position to be harmed.

***The complexity of our products could result in unforeseen delays or expense or undetected defects, bugs, or security vulnerabilities, which could adversely affect the market acceptance of new products, damage our reputation with current or prospective customers, and materially and adversely affect our operating costs.***

Our products may contain defects when they are first introduced or as new versions or enhancements are released, or their release may be delayed due to unforeseen difficulties during product development. If any of our products or third-party components used in our products, contain defects, bugs, vulnerabilities, or have reliability, quality, or compatibility problems, we may not be able to successfully design workarounds or resolve the issues in a timely manner. Furthermore, if any of these problems are not discovered until after we have commenced commercial production or deployment of a new product, we may be required to incur additional development costs, as well as costs to repair or replace our products, and expense previously capitalized production mask costs, all of which could materially adversely affect our reputation, business, results of operations, and/or financial condition.



Our customers integrate our products with their products, which may also be further integrated with a number of other third-party applications. As a result, if there is an actual or perceived breach of information integrity, security, or availability in one of our customers' systems, it can be difficult to determine which product is at fault and we could ultimately be harmed by the failure of a third-party supplier's product. Consequently, our reputation may be damaged, and customers may be reluctant to buy our products, which could materially and adversely affect our ability to retain existing customers and attract new customers. To resolve these problems, we may have to invest significant capital and other resources and we would likely lose, or experience a delay in, market acceptance of the affected product or products. These and similar problems may also result in claims against us by our customers or others, any of which could materially adversely affect our reputation, business, results of operations, and/or financial condition.

***The adoption, use, and commercialization of AI technology, and the continued rapid pace of developments in the AI field, are inherently uncertain. Failure by our customers to continue to adopt infrastructure to support AI use cases in their systems, or our ability to keep up with evolving AI infrastructure requirements, could have a material adverse effect on our business, financial condition, and results of operations.***

As part of our growth strategy, we seek to attract and acquire customers focused on AI. We foresee emerging demand from companies that are dedicated to providing infrastructure for AI use cases, AI-dedicated data centers, and larger enterprises, as they begin to build systems to meet their unique requirements. However, AI has been developing at a rapid pace, and continues to evolve and change. If we are unable to keep up with the changing AI landscape or in developing products to meet our customers' evolving AI needs, or if the AI landscape does not develop to the extent we expect, our business, and financial results may be adversely impacted.

Additionally, our efforts in developing new AI infrastructure technology solutions are inherently risky and may not always succeed. We may incur significant costs and expect significant delays in developing new products or new generations of existing products to adapt to the changing AI landscape, and may not achieve a return on investment or capitalize on the opportunities presented by demand for AI solutions. Moreover, while AI-adoption is likely to continue and may accelerate, the long-term trajectory of this technological trend is uncertain.

Furthermore, the rapid pace of innovation in the field of AI has led to developing and evolving regulatory frameworks globally, which are expected to become increasingly complex as AI continues to evolve. Regulators and lawmakers around the world have started proposing and adopting regulations and guidance specifically on the use of AI. For example, in December 2023, the EU reached a provisional agreement on the EU AI Act, which will establish a regulatory framework to handle various risks related to AI. While the final text of the EU AI Act has not yet been published, official statements from European lawmakers suggest it will impose material requirements on both the providers and deployers of certain AI technologies, including generative AI models, and that infringement will be punishable by sanctions including fines of up to 7% of total annual worldwide turnover. Once effective, the EU AI Act and other AI regulations could have a material impact on planned business activities involving the development and/or use of AI technologies and/or increase compliance costs. Our customers may become subject to such upcoming AI regulations, which could cause a delay or impediment to the commercialization of AI technology and could lead to a decrease in demand for our customers' AI systems, and may adversely affect our business, financial condition, and results of operations.

***Adverse changes in the political, regulatory, and economic policies of governments in connection with trade with China and Chinese customers have reduced the demand for our products and damaged our business.***

Regulatory activity, such as tariffs, export controls, economic sanctions, and vigorous enforcement of U.S. export controls and economic sanctions laws have in the past and may continue to materially limit our ability to

make sales to our customers in China, which has in the past and may continue to harm our results of operations, reputation, and financial condition. Due to the U.S. government restricting sales to certain customers in China, sales to some of our customers may require licenses in order for us to export our products; however, there can be no assurances that requests for licenses will be approved by the U.S. government. Moreover, concerns that U.S. companies may not be reliable suppliers as a result of these and other actions has caused, and may in the future cause, some of our customers in China to amass large inventories of our products well in advance of need or caused some of our customers to replace our products in favor of products from other suppliers. Additionally, the Chinese government adopted a law with respect to unreliable suppliers. Any designation as an unreliable supplier may have an adverse impact on our business and operations. In addition, there may be indirect impacts to our business that we cannot easily quantify such as the fact that some of our other customers' systems may also be impacted by export restrictions.

Any customers in China that are subject to trade restrictions or tariffs, may develop their own products instead of purchasing from us or they may acquire products from our competitors or other third-party sources that are not subject to the U.S. tariffs and trade restrictions. Some customers in China may be able to cancel or defer purchase orders on short notice without incurring a penalty and, therefore, they may be more likely to do so while the tariffs and trade restrictions are in effect. If export restrictions related to Chinese customers are sustained for a long period of time, or increased, or if other export restrictions are imposed, including restrictions on trade with other countries, it will have an adverse impact on our revenue and results of operations.

***If the third-party manufacturing partners, including manufacturers and assembly and test providers, with which we contract, or any additional third-party manufacturing partners with which we may contract in the future, do not achieve satisfactory yields or quality, our reputation and customer relationships could be harmed.***

We depend on satisfactory manufacturing capacity, prices, and production yields, as well as timely delivery to meet customer demand and enable us to maintain gross margins. The fabrication of our products is a complex and technically demanding process. Minor deviations in the manufacturing process can cause substantial decreases in yields and, in some cases, cause production to be suspended. Manufacturers with which we contract now or in the future may experience manufacturing defects and reduced manufacturing yields from time to time. If these third-party manufacturing partners were to extend lead times, limit supplies or the types of capacity we require, or increase prices due to capacity constraints or other factors, our revenue and gross margin may materially decline. Any new third-party manufacturing partners we work with may present additional and unexpected manufacturing challenges that could require significant management time and focus.

Changes in manufacturing processes or the inadvertent use of defective or contaminated materials by the manufacturers that we work with could result in lower than anticipated production yields or unacceptable performance of our devices. Many of these problems are difficult to detect at an early stage of the manufacturing process and may be time-consuming and expensive to correct. Poor production yields or defects, integration issues or other performance problems in our products could significantly harm our customer relationships and financial results, and give rise to financial or other damages to our customers. Any product liability claim brought against us, even if unsuccessful, would likely be time-consuming and costly to defend.

Manufacturing yields for new products initially tend to be lower as we complete product development and commence volume manufacturing, and typically increase as we bring the product to full production. Our business model includes the assumption of improving manufacturing yields and, as a result, material variances between projected and actual manufacturing yields will have a direct effect on our gross margin and profitability. The difficulty of accurately forecasting manufacturing yields and maintaining cost competitiveness through improving manufacturing yields will continue to be magnified by the increasing process complexity of manufacturing semiconductor products.

***Our operating results are impacted by wide fluctuations of supply and demand in the industry.***

The semiconductor industry is highly cyclical and subject to wide fluctuations of supply and demand as a result of rapid technological change, rapid product obsolescence and price erosion, evolving standards, and frequent new product introductions. The industry has experienced significant downturns during recent global recessions, characterized by diminished product demand, production overcapacity, and high inventory levels. During these periods, our customers may overstock our products, which would lead to inflated demand for the given period.

Further, any upturn in the semiconductor industry could result in increased competition for access to third-party manufacturing partners. We are dependent on the availability of this capacity to manufacture and assemble our products, and our third-party manufacturing partners have not provided assurances that adequate capacity will be available to us in the future.

In periods when broad fluctuations or changes in business conditions occur, it is difficult to assess the impact on our business. We have sought to reduce our exposure to these fluctuations in our industry by ensuring we have adequate inventory during periods of high demand, including having sufficient supply of components needed to produce more of our products. However, we have experienced substantial period-to-period fluctuations in operating results and expect, in the future, to experience period-to-period fluctuations in operating results due to these changes in business conditions.

***We have identified material weaknesses in our internal control over financial reporting and may identify additional material weaknesses in the future or fail to maintain an effective system of internal control over financial reporting. If our remediation of the material weaknesses is not effective, or we fail to develop and maintain effective internal control over financial reporting, our ability to produce timely and accurate financial statements or comply with applicable laws and regulations could be impaired, which could harm our business and negatively impact the value of our common stock.***

A material weakness is a deficiency, or a combination of deficiencies, in internal control over financial reporting, such that there is a reasonable possibility that a material misstatement of a company's annual or interim financial statements will not be prevented or detected on a timely basis. We have identified material weaknesses in our internal control over financial reporting.

We did not adequately design and maintain an effective risk assessment process at a sufficient precision level to identify risks of material misstatement in our consolidated financial statements. Specifically, the implementation of controls was not sufficient to respond to risks of material misstatement to financial reporting, including a lack of effectively designed controls over segregation of duties, particularly over the preparation and review of journal entries and account reconciliations.

This material weakness could result in a misstatement of substantially all of the financial statement accounts and disclosures that would result in a material misstatement to our annual or interim consolidated financial statements that would not be prevented or detected.

We did not design and maintain effective IT general controls for information systems that are relevant to the preparation of its financial statements. Specifically, we did not design and maintain: (i) program change management controls to ensure that program and data changes are identified, tested, authorized, and implemented appropriately; (ii) user access controls to ensure appropriate segregation of duties and to adequately restrict user and privileged access to appropriate personnel; (iii) computer operations controls to ensure that processing and transfer of data, and data backups and recovery are monitored; and (iv) program development controls to ensure that new software development is tested, authorized, and implemented appropriately.

These IT deficiencies did not result in a material misstatement to our consolidated financial statements, however, the deficiencies, when aggregated, could impact maintaining effective segregation of duties, as well as

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the effectiveness of IT-dependent controls (such as automated controls that address the risk of material misstatement to one or more assertions, along with the IT controls and underlying data that support the effectiveness of system-generated data and reports) that could result in misstatements potentially impacting all financial statement accounts and disclosures that would not be prevented or detected. Accordingly, we have determined these deficiencies in the aggregate constitute a material weakness.

We are taking steps to remediate these material weaknesses through the implementation of business process and IT general controls. We plan to review business processes and IT processes and design and implement internal controls consistent with the principles of the Committee of Sponsoring Organizations of the Treadway Commission (“COSO”) framework to address the risks of material misstatement. Such activities may include designing and implementing new business processes, enhancing information and communication processes, assessing risk, improvements to control documentation, enhancements to segregation of duties and access rights, and deployment of new IT systems and system functionalities as necessary. We also plan to establish a monitoring function over internal control over financial reporting, including internal audit, to evaluate and enhance internal controls consistent with the COSO framework and the requirements of a public company. We further plan to implement and operate an appropriate set of IT general controls covering all financially significant systems, which includes controls covering security administration, segregation of duties, computer operations, system implementations, change management, complementary user controls for hosted systems, oversight activities for significant third-party vendors and others. In order to maintain and improve the effectiveness of our internal control over financial reporting as a public company, and once our material weaknesses have been remediated, we anticipate that we will continue to expend significant resources, including accounting-related costs and significant management oversight. Our current controls and any new controls that we develop may become inadequate because of changes in conditions in our business.

In addition, we have limited experience with implementing the systems and controls that will be necessary to operate as a public company. If these new systems or controls and the associated process changes do not give rise to the benefits that we expect or do not operate as intended, it could adversely affect our financial reporting systems and processes, our ability to produce timely and accurate financial reports or the effectiveness of internal control over financial reporting. Moreover, our business may be harmed if we experience problems with any new systems and controls that result in delays in their implementation or increased costs to correct any post-implementation issues that may arise.

While we are designing and implementing new controls and measures to remediate these material weaknesses, the measures we are taking may not be sufficient to remediate the material weaknesses or avoid the identification of additional material weaknesses in the future. Any failure to remediate our material weaknesses and to implement and maintain effective internal control over financial reporting also could adversely affect the results of periodic management evaluations and annual independent registered public accounting firm attestation reports regarding the effectiveness of our internal control over financial reporting that we will eventually be required to include in our periodic reports that will be filed with the SEC. Ineffective disclosure controls and procedures and internal control over financial reporting could also result in errors in our consolidated financial statements that could result in a restatement of our financial statements and could cause us to fail to meet our periodic reporting obligations, any of which could diminish investor confidence in us and cause a decline in the price of our common stock. In addition, if we are unable to continue to meet these requirements, we may not be able to remain listed on the

We are not currently required to comply with the SEC rules that implement Section 404 of the Sarbanes-Oxley Act and are therefore not required to make a formal assessment of the effectiveness of our internal control over financial reporting for that purpose. As a public company, we will be required to provide an annual management report on the effectiveness of our internal control over financial reporting commencing with our second annual report on Form 10-K. Our independent registered public accounting firm is not required to formally attest to the effectiveness of our internal control over financial reporting until we are no longer considered an emerging growth company. At such time, our independent registered public accounting firm may

issue a report that is adverse in the event it is not satisfied with the level at which our internal control over financial reporting is documented, designed or operating. Any failure to maintain effective disclosure controls and internal control over financial reporting could harm our business and could cause a decline in the trading price of our common stock.

***We may experience difficulties in transitioning to smaller geometry process nodes, and tapeouts in smaller nodes are more expensive.***

In order to remain competitive, we have transitioned, and expect to continue to transition, our semiconductor products to be manufactured in accordance with increasingly smaller line width geometries. We periodically evaluate the benefits, on a product-by-product basis, of migrating our product designs to smaller geometry process nodes. We also evaluate the costs of migrating to smaller geometry process nodes, including both actual costs and opportunity costs related to the technologies we choose to forego. These complex transitions are imperative for us to remain competitive with the rest of the industry.

We have been, and may continue to be, dependent on our relationships with our manufacturers to transition to smaller geometry processes successfully. We cannot ensure that the third parties we use will be able to effectively manage any future transitions. If we or any of our partners experience significant delays in a future transition or fail to efficiently implement a transition, we could experience reduced manufacturing yields, delays in product deliveries, and increased expenses, all of which could harm our relationships with our customers and our results of operations.

***If we are unable to attract, train, and retain qualified personnel, particularly our design and technical personnel, we may not be able to execute our business strategy effectively.***

Our future success depends on our ability to attract and retain qualified personnel, including our management, sales and marketing, and finance, and particularly our design and technical personnel. In addition, partially in response to the novel coronavirus (“COVID-19”) pandemic, we have a hybrid office structure where certain of our employees work remotely, which adds to the complexity of our business operations. We do not know whether we will be able to retain all of these personnel as we continue to pursue our business strategy.

Historically, we have encountered difficulties in hiring qualified engineers because there is a limited pool of engineers with the expertise required in our field and competition for these personnel is intense in our industry. In addition, competition for these personnel in the San Francisco Bay Area, where our headquarters are located, and in other locations where we maintain offices, is intense. We have from time to time experienced, and we expect to continue to experience, difficulty in hiring and retaining employees with appropriate qualifications. As the source of our technological and product innovations, our design and technical personnel represent a significant asset. The loss of the services of one or more of our key employees, especially our key design and technical personnel, or our inability to attract and retain qualified design and technical personnel, could harm our business, financial condition, and results of operations.

Many of our key personnel are, or will soon be, vested in a substantial amount of shares of our common stock, RSUs, or stock options. Employees may be more likely to terminate their employment with us if the shares they own or the shares underlying their vested RSUs or options have significantly appreciated in value relative to the original purchase prices of the shares or the exercise price of the options or grant date values of the RSUs, or, conversely, if the exercise price of the options that they hold are significantly above the trading price of our common stock. In addition, job candidates and existing employees often consider the value of the stock awards they receive in connection with their employment. If the perceived value of our stock awards declines, it may adversely affect our ability to recruit and retain highly skilled employees.

***Our business would be adversely affected by the departure of existing members of our senior management team.***

Our success depends, in large part, on the continued contributions of our senior management team, and in particular, the services of Jitendra Mohan, our Co-Founder and Chief Executive Officer, and Sanjay Gajendra, our Co-Founder, President, and Chief Operating Officer. Effective succession planning is also important for our long-term success. Failure to ensure effective transfers of knowledge and smooth transitions involving senior management could hinder our strategic planning and execution. We do not maintain key person life insurance policies, so the loss of one or more of our executive officers or key employees (including any limitation on the performance of their duties or short-term or long-term absences as a result of illness or disability) could adversely affect our business.

***Cybersecurity risks, including cyber-attacks, data breaches, and system vulnerabilities could adversely affect our business and disrupt our operations.***

We depend heavily on our technology infrastructure and cloud partners and maintain and rely upon certain critical information systems for the effective operation of our business. We routinely collect, receive, process, and store personal information (which may also be referred to as “personal data” or “personally identifiable data”) and sensitive data via our information systems, including intellectual property and other proprietary information about our business and that of our customers, employees, suppliers, business partners, and others. These information technology systems are subject to damage or interruption from a number of potential sources, including, but not limited to, natural disasters, destructive or inadequate code, malware, bugs, viruses, system vulnerabilities, power failures, phishing attacks, denial-of-service attacks, cyber-attacks, internal negligence, malfeasance, or other events.

Cyber-attacks are increasing in number and sophistication, are well-financed, in some cases supported by state actors, and are designed to not only attack, but also to evade detection. Since the techniques used to obtain unauthorized access to systems and data, or to otherwise sabotage them, change frequently and are often not recognized until launched against a target, we may be unable to anticipate these techniques or to implement adequate preventative measures. Geopolitical instability, such as the Israel-Hamas war or Russia’s invasion of Ukraine, may increase the likelihood that we will experience direct or collateral consequences from cyber conflicts between nation-states or other politically motivated actors targeting critical technology infrastructure. Accidental or willful security breaches or other unauthorized access to our information systems or the systems of our third-party service providers, or the existence of computer viruses, malware (such as ransomware), or vulnerabilities in our or their data or software could expose us to a risk of information loss, business disruption, or misappropriation of proprietary and confidential information, including information relating to our products or customers or the personal information of our employees or third parties. Despite our internal controls and investment in security measures, we have in the past, and may again in the future, be subject to cyber-attacks or unauthorized network intrusions. These events, should they occur, could disrupt our business and result in, among other things, unfavorable publicity, damage to our reputation, loss of our trade secrets and other competitive information, litigation by affected parties and possible financial obligations for liabilities and damages related to the theft or misuse of such information, significant remediation costs, disruption of key business operations, and significant diversion of our resources, as well as fines and other sanctions resulting from any related breaches of data privacy laws and regulations (such as the CCPA), any of which could have a material adverse effect on our business, profitability, and financial condition. In addition, despite our internal controls and processes, malicious code, and cybersecurity vulnerabilities in our products and services may expose our customers to cyberattacks and other security risks, which may result in claims, regulatory action, or reputational damage. While we may be entitled to damages if an adverse event arises from our third-party service providers’ failure to perform under their agreements with us, any award may be insufficient to cover the actual costs incurred by us and, as a result of a service provider’s failure to perform, we may be unable to collect any damages. Although to date no such cyber security incidents have had a material adverse impact on our business, we cannot guarantee that future incidents or breaches will not have a materially adverse impact on our business.

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Further, we continue to devote resources to protect our systems and data from unauthorized access or misuse, and we will likely be required to expend greater resources in the future.

U.S. and foreign regulators have also increased their focus on cybersecurity vulnerabilities and risks. Compliance with laws and regulations concerning privacy, cybersecurity, data governance, and data protection could result in significant expense, and any failure to comply could result in proceedings against us by regulatory authorities or other third parties. Such proceedings could result in (among other things) unfavorable publicity, damage to our reputation, possible financial obligations for liabilities, and government orders to implement additional protective measures or adopt new protocols, which could result in additional material expense. Further, customers and third-party manufacturing partners increasingly demand rigorous contractual, certification, and audit provisions regarding privacy, cybersecurity, data governance, data protection, confidentiality, and intellectual property, which may also increase our overall compliance burden.

We have incurred and may in the future incur significant costs in order to implement, maintain, and/or update security systems that are designed to protect our information systems and the design of our products and services, and we may miscalculate the level of investment necessary to protect our systems adequately. Since the techniques used to obtain unauthorized access or to sabotage systems change frequently and are often not recognized until launched against a target, we may be unable to anticipate these techniques or to implement adequate preventive measures.

Our board of directors is responsible for overseeing management's identification, monitoring, and management of risk. See "Management—Role of Board of Directors in Risk Oversight Process." In particular, our board of directors, through its audit committee, is responsible for oversight of cybersecurity risks, including with respect to the Company's supply chain, suppliers, and service providers, and our management is responsible for day-to-day risk management processes. Our board of directors, through its audit committee, receives reports from management on material cybersecurity risks and the degree of the Company's exposure to those risks. Management has worked, and expects to continue to work, with third-party service providers, as appropriate, to monitor and, as appropriate, respond to cybersecurity risks. However, we cannot guarantee that these risk management processes will be effective at mitigating the risk to our information technology systems described above.

To the extent that any system failure, known or unknown vulnerability, incident or security breach results in material disruptions or interruptions to our operations or the theft, loss, unauthorized access or disclosure of, or damage to our data (including personal information) or confidential information, including our intellectual property, or exposes our customers to cybersecurity threats and attacks, our reputation, business, results of operations, and/or financial condition could be materially adversely affected.

***An impairment of the confidentiality, integrity, or availability of our IT systems, or those of one or more of our IT vendors could have a material adverse effect on our business.***

Our business depends on various internally managed IT systems and outsourced IT services, including cloud-based infrastructure services, to support, among other things, the design and simulation of our products, financial reporting, product orders and shipping, human resources, benefit plan administration, IT network development, network monitoring, productivity tools, and electronic communication services. Our operations are dependent upon our and our IT vendors' ability to protect our respective IT infrastructure against damage from business continuity events that could have a significant disruptive effect. Although these systems and services are designed to protect and secure our customers', suppliers', and employees' confidential information, as well as our own proprietary information, we are dependent on our vendors and providers to adequately address cybersecurity threats to their systems and services. Any failure of these internal or third-party systems and services to operate effectively or any breach of such systems or services could disrupt our operations and could have a material adverse effect on our business, financial condition, and results of operations.



***Our business is subject to complex and evolving laws and regulations regarding privacy, data protection, and cybersecurity, any actual or perceived failure to comply with such laws and regulations could have a material adverse effect on our business.***

There are numerous U.S. federal, state, local, and international laws and regulations regarding privacy, data protection, and cybersecurity that govern the collection, receipt, processing, and storage of personal information and other information. The scope of these laws and regulations is expanding and evolving, subject to differing interpretations, may be inconsistent among jurisdictions, or conflict with other rules. We are also subject to the terms of our privacy policies and obligations to third parties, including our customers, related to privacy, data protection, and cybersecurity.

For example, the California Consumer Privacy Act of 2018 (the “CCPA”) as amended by the California Privacy Rights and Enforcement Act of 2020, originally took effect on January 1, 2020, affords California residents broad privacy rights and protections, and provides for civil penalties for certain violations. Additional states have passed and may in the future pass comprehensive state privacy laws that may impose additional obligations on our business. Data privacy laws and regulations are constantly evolving and can be subject to significant change and/or interpretive application. Varying and evolving jurisdictional requirements could increase the costs and complexity of our compliance efforts and require changes to how we conduct our business. Violations of applicable data privacy laws can result in significant penalties. Any failure, or perceived failure, by us to comply with applicable data protection or other laws could result in proceedings, or actions against us by governmental entities or others, subject us to significant fines, penalties, judgments, and negative publicity, require us to change our business practices, increase the costs and complexity of compliance, and could have a material adverse effect on our business, financial condition, and results of operations.

***We may be subject to warranty claims and product liability.***

From time to time, we may be subject to warranty or product liability claims arising from defects or perceived defects in our products or in third-party components that we integrate into our products, which may lead to significant expenses. Our customer contracts typically contain warranty provisions relating to product quality issues. While we generally seek to limit our liability to the replacement of the part or to the revenue received for the product in our agreements, these limitations on liability may not be effective or sufficient in scope in all cases. If a customer’s equipment fails in use, the customer may incur significant monetary damages including an equipment recall or associated replacement expenses, as well as lost revenue. The customer may claim that a defect in our product caused the equipment failure and assert a claim against us to recover monetary damages. The process of identifying a defective or potentially defective product in systems that have been widely distributed may be lengthy and require significant resources, and we may incur significant replacement costs and contract damage claims from our customers. In certain situations, we may consider incurring the costs or expenses related to a recall of one of our products in order to avoid the potential claims that may be raised should customer suffer a failure due to a design or manufacturing process defect. Any such liabilities may greatly exceed any revenue we receive from the relevant products. Costs, payments, or damages incurred or paid by us in connection with warranty and product liability claims could materially adversely affect our financial condition and results of operations. We may also be exposed to such claims as a result of any acquisition we may undertake in the future.

***Litigation and other legal proceedings may adversely affect our business.***

From time to time we may become involved in legal proceedings relating to patent and other intellectual property matters, product liability claims, employee claims, including wrongful termination, tort, or contract claims, federal regulatory investigations, securities class action, and other legal proceedings or investigations, which could have an adverse impact on our business, financial condition, and results of operations and divert the attention of our management from the operation of our business. Litigation is inherently unpredictable and can result in excessive or unanticipated verdicts and/or injunctive relief that affect how we operate our business. We



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could incur judgments or enter into settlements of claims for monetary damages or for agreements to change the way we operate our business, or both. There may be an increase in the scope of these matters or there may be additional lawsuits, claims, proceedings, or investigations in the future, which could have a material adverse effect on our business, financial condition, and results of operations. Adverse publicity about regulatory or legal action against us could damage our reputation and brand image, undermine our customers' confidence, and reduce long-term demand for our products, even if the regulatory or legal action is unfounded or not material to our operations.

***The occurrence of events for which we are self-insured, or which exceed our insurance limits, may adversely affect our profitability and liquidity.***

We have insurance coverage related to many different types of risk; however, we self-insure for some potentially significant risks and obligations, including those that may exceed policy limits. The risks and exposures that we self-insure include, but are not limited to, employee health matters, business interruption, natural disasters, war and terrorism, certain property matters, product defects, cybersecurity matters, employment risks, environmental matters, political risks, and intellectual property matters. Although we believe we have sufficient capital to satisfy a potential loss, should there be a loss or adverse judgment in an area for which we are self-insured, our financial condition, results of operations, and liquidity may be materially adversely affected.

***Our business, financial condition, and results of operations could be adversely affected by worldwide economic conditions, as well as political and economic conditions in the countries in which we conduct business.***

Our business, financial condition, and results of operations may vary based on changes in our industry, as well as the impact of the global economy on our third-party manufacturing partners and customers. Our results of operations currently depend, in part, on the demand for our products, which in turn are influenced by the amount of business that our customers conduct. To the extent that weak or volatile economic conditions, including due to the pandemics or health epidemics, labor shortages, supply chain disruptions, inflation, geopolitical developments (such as the war in Ukraine, the Israel-Hamas war and the implementation of, or changes to or further expansions of, trade sanctions, export restrictions, tariffs, and embargoes), deterioration of the financial services industry, and other events outside of our control, result in a reduced volume of business for our customers and prospective customers, demand for, and use of, our products may decline.

Furthermore, weak economic conditions may make it more difficult to collect on outstanding accounts receivable and increase our expenses. Specifically, our distributors or customers may fail to make payments when due, default under their agreements with us, or become insolvent or declare bankruptcy, or a supplier may determine that it will no longer do business with us as a customer. Additionally, a distributor, customer or supplier could be adversely affected by any of the liquidity or other risks that are described above as factors that could result in material adverse impacts on us, including but not limited to delayed access or loss of access to uninsured deposits or loss of the ability to draw on existing credit facilities involving a troubled or failed financial institution. Further, in the last year as a result of increasing inflation, we have seen labor costs, product supply costs, and other operating expenses rise due to high rates of inflation, but have not been able to offset these costs with higher prices of our products. If customers or prospective customers elect not to purchase our products, as a result of a weak economy or rising inflation and increased costs or otherwise, or our distributors are unable to continue to distribute our products, our business, results of operations, and financial condition could be adversely affected.

Our products are manufactured, assembled, and tested outside the United States. Any conflict or uncertainty in these countries, including due to political unrest or safety concerns, could harm our business, financial condition, and results of operations. In addition, if the government of any country in which our products are manufactured or sold sets technical standards for products manufactured in or imported into their country that are not widely shared, it may lead some of our customers to suspend imports of their products into that country,

require manufacturers in that country to manufacture products with different technical standards and disrupt cross-border manufacturing relationships which, in each case, could harm our business.

***We may pursue acquisitions, investments, joint ventures, and dispositions, which could adversely affect our results of operations, and any acquisitions we do make could disrupt our business and harm our financial condition.***

Our growth strategy includes acquiring or investing in businesses that offer complementary products, services, and technologies, enhance our market coverage or technological capabilities or enables us to increase the number of engineering employees.

In the future, we may choose to acquire companies that are complementary to our business, including for the purpose of expanding our new product design capacity, introducing new design, market, or application skills, enhancing, and expanding our existing product lines or grow the number of engineers. We cannot forecast the number, timing or size of future acquisitions, or the effect that any such acquisitions might have on our operating or financial results.

Any acquisitions we may undertake and their integration involve risks and uncertainties, such as:

- unexpected delays, challenges and related expenses, and disruption of our business;
- diversion of management's attention from daily operations and the pursuit of other opportunities;
- incurring significant restructuring charges and amortization expense, assuming liabilities (some of which may be unexpected) and ongoing or new lawsuits, potential impairment of acquired goodwill, acquired in-process research and development charges and other intangible assets, amortization expense, and increasing our expenses and working capital requirements;
- the potential for deficiencies in internal controls at the acquired business, or other security vulnerabilities or issues, as well as implementing our own management information systems, operating systems, and internal controls for the acquired operations;
- our due diligence process may fail to identify significant issues with the acquired business' products, financial disclosures, accounting practices, legal, tax, and other contingencies, intellectual property rights, compliance with local laws and regulations (and interpretations thereof) in the United States, and multiple international jurisdictions;
- additional acquisition-related debt and contingent liabilities, which could increase our leverage and potentially negatively affect our credit ratings resulting in more restrictive borrowing terms or increased borrowing costs thereby limiting our ability to borrow;
- the use of a significant portion of our available cash;
- dilution of stock ownership of existing stockholders;
- difficulties integrating the acquired business or company and in managing and retaining acquired employees, third-party manufacturing partners, and customers; and
- inaccuracies in our original estimates and assumptions used to assess a transaction, which may result in us not realizing the expected financial or strategic benefits of any such transaction.

In addition, current and future changes to the U.S. and foreign regulatory approval process and requirements related to acquisitions may cause approvals to take longer than anticipated, not be forthcoming or contain burdensome conditions, which may prevent the transaction or jeopardize, delay or reduce the anticipated benefits of the transaction, and impede the execution of our business strategy.

From time to time, we may also seek to divest or wind down portions of our business, either acquired or otherwise, or we may exit minority investments, any of which could materially affect our cash flows and results

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of operations. Such dispositions involve risks and uncertainties, including our ability to sell such businesses on terms acceptable to us, or at all, disruption to other parts of our business, potential loss of employees or customers, or exposure to unanticipated liabilities or ongoing obligations to us following any such dispositions. In addition, dispositions may include the transfer of technology and/or the licensing of certain intellectual property rights to third parties, which could limit our ability to utilize such intellectual property rights or assert these rights against such third parties.

***We may not be able to accurately predict our future capital needs, and we may not be able to obtain additional financing to fund our operations.***

We may need to raise additional funds in the future. Any required additional financing may not be available on terms acceptable to us, or at all. If we raise additional funds by issuing equity securities or convertible debt, investors may experience significant dilution of their ownership interest, and the newly-issued securities may have rights senior to those of the holders of our common stock. If we raise additional funds by obtaining loans from third parties, the terms of those financing arrangements may include negative covenants or other restrictions on our business that could impair our operational flexibility and would also require us to incur additional interest expense. If additional financing is not available when required or is not available on acceptable terms, we may have to scale back our operations or limit our production activities, and we may not be able to expand our business, develop or enhance our products, take advantage of business opportunities or respond to competitive pressures, which could negatively impact our business, financial condition, and results of operations.

***If our estimates or judgments relating to our critical accounting policies are based on assumptions that change or prove to be incorrect, our results of operations could fall below expectations of securities analysts and investors, resulting in a decline in the market price of our common stock.***

The preparation of financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the amounts reported in the consolidated financial statements and accompanying notes. We base our estimates on historical experience and on various other assumptions that we believe to be reasonable under the circumstances, as described in the section entitled “Management’s Discussion and Analysis of Financial Condition and Results of Operations,” the results of which form the basis for making judgments about the carrying values of assets, liabilities, equity, revenue, and expenses that are not readily apparent from other sources. Significant assumptions and estimates used in preparing our consolidated financial statements include those listed in our consolidated financial statements. If our assumptions change or if actual circumstances differ from those in our assumptions, our results of operations may be adversely affected and may fall below the expectations of securities analysts and investors, resulting in a decline in the market price of our common stock.

***Our reported financial results may be adversely affected by new accounting pronouncements or changes in existing accounting standards and practices.***

We prepare our financial statements in conformity with GAAP. These accounting principles are subject to interpretation or changes by the Financial Accounting Standards Board and the SEC. New accounting pronouncements and interpretations of accounting standards and practices have occurred in the past and are expected to occur in the future. New accounting pronouncements or a change in the interpretation of accounting standards or practices may have a significant effect on our reported financial results and may affect our reporting of transactions completed before the change is effective.

***A pandemic, epidemic, or outbreak of an infectious disease may materially and adversely affect our business and our financial results.***

Our business could be adversely affected by health crises in regions where we operate or otherwise do business. For example, the policies and regulations implemented in response to the outbreak of COVID-19 have had a significant impact, both directly and indirectly, on businesses and commerce and the global supply chain

for semiconductors. Although restrictions have generally been lifted, additional indirect effects such as supply shortages continue to impact segments of the global economy. Other global health concerns could also result in social, economic, and labor instability in the countries in which we or the third parties with whom we engage operate. The conditions caused by the COVID-19 pandemic and its aftermath as well as macroeconomic conditions have caused diminished liquidity and credit availability, declines in customer confidence, declines in economic growth, increases in unemployment rates and uncertainty about economic stability, and any future health crisis may have a similar impact.

Our operations have in the past been negatively affected by a range of external factors related to the effects of the COVID-19 pandemic that are not within our control. We may also be negatively affected by a future pandemic, epidemic, outbreak of an infectious disease or public health crisis. In the past many cities, counties, states, and even countries have previously imposed or may impose a wide range of restrictions on the physical movement of our employees, partners, and customers to limit the spread of COVID-19, including physical distancing, travel bans and restrictions, closure of non-essential business, quarantines, work-from-home directives, and shelter-in-place orders. These measures have previously caused, and may cause in the future, business slowdowns or shutdowns in affected areas, both regionally and worldwide. If future pandemics, epidemics or other global health crises have a substantial impact on the productivity of our employees and partners, or a continued substantial impact on the ability of our employees to execute responsibilities, or a continued and substantial impact on the ability of our customers to purchase our products, our results of operations, and overall financial performance may be harmed.

To the extent future pandemics, epidemics, outbreaks of infectious diseases, or public health crisis adversely affect our business and financial results, it may also have the effect of heightening many of the other risks described herein.

***Changes in current or future laws or regulations or the imposition of new laws or regulations by federal or state agencies or foreign governments could impair our ability to compete in international markets, or subject us to criminal penalties or significant fines which may adversely affect our business and reputation.***

Changes in current laws or regulations applicable to us or the imposition of new laws and regulations in the United States or other jurisdictions in which we do business, such as Canada, China, Israel, and Taiwan, could materially and adversely affect our business, financial condition, and results of operations. See “Business—Facilities” for a description of how our facilities are used in these various jurisdictions. For example, we are subject to export control laws, regulations, and requirements that limit which products we sell and where and to whom we sell our products. In some cases, it is possible that export licenses would be required from U.S. government agencies for some of our products in accordance with the Export Administration Regulations and the International Traffic in Arms Regulations. We may not be successful in obtaining the necessary export licenses in all instances. Any limitation on our ability to export or sell our products imposed by these laws would adversely affect our business, financial condition, and results of operations. In addition, changes in our products or changes in export and import laws and implementing regulations may create delays in the introduction of new products in international markets, prevent our customers from deploying our products internationally or, in some cases, prevent the export or import of our products to certain countries altogether.

We are also subject to anti-corruption and anti-bribery and similar laws, such as the Foreign Corrupt Practices Act (the “FCPA”), the U.S. domestic bribery statute contained in 18 U.S.C. § 201, the U.S. Travel Act, the USA PATRIOT Act, the U.K. Bribery Act, and other anti-corruption, anti-bribery, and anti-money laundering laws in countries where we conduct activities. Anti-corruption and anti-bribery laws have been interpreted broadly and enforced aggressively in recent years, and prohibit companies and their employees and agents from promising, authorizing, making, or offering improper payments or other benefits to government officials and others in the private sector to influence official action, direct business to any person, gain any improper advantage, or obtain or retain business. As we increase our international sales and business, our risks under these laws may increase.

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In addition, in the future we may use third parties to conduct business on our behalf abroad. We or such future third-party intermediaries may have direct or indirect interactions with officials and employees of government agencies or state-owned or affiliated entities, and we can be held liable for the corrupt or other illegal activities of such future third-party intermediaries and our employees, representatives, contractors, partners, and agents, even if we do not explicitly authorize such activities. We have implemented an anti-corruption compliance program, but cannot guarantee that all our employees and agents, as well as those companies we outsource certain of our business operations to, will not take actions in violation of our policies and applicable law, for which we may be ultimately held responsible. Any violation of the FCPA, other applicable anti-corruption laws, or anti-money laundering laws could result in whistleblower complaints, adverse media coverage, investigations, prosecutions, loss of export privileges, suspension or debarment from U.S. government contracts, substantial diversion of management's attention, significant legal fees and fines, settlements, damages, severe criminal or civil sanctions, penalties or injunctions against us, our officers, or our employees, disgorgement of profits, and other sanctions, enforcement actions, and remedial measures, and prohibitions on the conduct of our business, any of which could have a materially adverse effect on our reputation, business, trading price, results of operations, financial condition, and prospects.

***Our global operations expose us to numerous legal and regulatory requirements and failure to comply with such requirements, including unexpected changes to such requirements, could adversely affect our results of operations.***

We service our customers around the world. We are subject to numerous, and sometimes conflicting, legal regimes of the United States and foreign national, state, and provincial authorities on matters as diverse as anti-corruption, trade restrictions, tariffs, taxation, sanctions, anti-competition, data security, and privacy. U.S. laws may be different in significant respects from the laws of the PRC or Taiwan, where we utilize a significant portion of our third-party manufacturing partners, and jurisdictions where we seek to expand. U.S. laws could also directly conflict with PRC laws, forcing businesses to choose between compliance with conflicting legal regimes. We also may seek to expand operations in emerging market jurisdictions where legal systems are less developed or familiar to us.

In addition, there can be no assurance that the laws or administrative practices relating to taxation (including the current position as to income and withholding taxes), foreign exchange, export controls, economic sanctions, or otherwise in the jurisdictions where we have operations will not change. Changes in tax laws in some jurisdictions may also have a retroactive effect and we may be found to have paid less tax than required in such jurisdictions. Compliance with diverse legal requirements is costly, time consuming and requires significant resources. Violations of one or more of these regulations in the conduct of our business could result in significant fines, criminal sanctions against us or our officers, prohibitions on doing business and damage to our reputation. Violations of these regulations in connection with the performance of our obligations to our customers also could result in liability for significant monetary damages, fines or criminal prosecution, unfavorable publicity and other reputational damage, and allegations by our customers that we have not performed our contractual obligations. Due to the varying degrees of development of the legal systems of the countries in which we operate, local laws might be insufficient to protect our rights.

***Regulatory authorities in jurisdictions into or from which we ship our products or import supplies could levy fines, restrict or delay our ability to export products or import supplies, or increase costs associated with the manufacture or transfer of products.***

A significant portion of our sales require export and import activities. Our products are subject to laws and regulations that govern international trade, including but not limited to the FCPA, Export Administration Regulations, International Traffic in Arms Regulations and trade sanctions against embargoed countries and restricted parties, including those administered by the U.S. Departments of State, Commerce, and Treasury. Licenses or license exceptions may be required for the shipment of certain products to certain countries. Regulations and laws regarding licensing may also change in the future, requiring us to obtain licenses for

products that we have not previously been required to license. Any changes in laws or regulations around license requirements may delay scheduled shipments, which could have a material adverse impact on our revenue within the quarter of a shutdown.

Further, determination by a government that we have failed to comply with trade regulations or anti-bribery regulations can result in penalties which may include denial of export privileges, fines, penalties, and seizure of products, or loss of reputation, any of which could have a material adverse effect on our business, sales, and earnings. A change in laws and regulations could restrict our ability to transfer product to previously permitted countries, customers, distributors or others. For example, in October 2022, the U.S. Commerce Department published an interim final rule entitled “Implementation of Additional Export Controls: Certain Advanced Computing and Semiconductor Manufacturing Items; Supercomputer and Semiconductor End Use; Entity List Modification.” This regulation imposes restrictions on advanced computing ICs, computer commodities that contain such ICs, as well as on certain semiconductor manufacturing items, and expands controls on transactions involving items for supercomputer and semiconductor manufacturing end-uses. In October 2023, the U.S. Commerce Department issued proposed rules updating the October 2022 rule to seek additional export restrictions for certain semiconductors and related manufacturing equipment, and it is expected the U.S. Commerce Department will continue to revise such regulations in the future. The Export Administration Regulations also effectively prohibits sales of items for a “military end use,” to a “military end-user,” or for a “military intelligence end-user,” or end-use to certain countries, such as Belarus, Burma, Cambodia, Cuba, China, Iran, North Korea, Russia, Syria, and Venezuela. Any of the foregoing changes could adversely impact our operational costs due to the administrative impacts of complying with these regulations and may limit those with whom we conduct business. Any one or more of these sanctions, future sanctions, a change in laws or regulations, or a prohibition on shipment of our products to significant customers could have a material adverse effect on our business, financial condition, and results of operations.

The United States and other countries have levied tariffs and taxes on certain goods, implemented trade restrictions, and introduced national security protection policies. Trade tensions between the United States and China, which escalated in 2018, have continued and include the United States increasing tariffs on Chinese origin goods and China increasing tariffs on U.S. origin goods. Increased tariffs on our customers’ systems could adversely impact their sales, and increased tariffs on our products in comparison to those of our competitors could each result in lower demand for our products.

Further changes in trade or national security protection policy, tariffs, additional taxes, restrictions on exports or other trade barriers, including those taken against the United States in retaliation for U.S. policies, may limit our ability to obtain equipment, components or raw materials (including rare earth minerals), limit our ability to produce products, increase our selling and/or manufacturing costs, decrease margins, reduce the competitiveness of our products, reduce our ability to sell products, or reduce our ability to have mergers and acquisitions approved by governmental agencies, any of which could have a material adverse effect on our business, results of operations, or financial conditions.

***Customer demands for us to implement business practices that are more stringent than legal requirements may reduce our revenue opportunities or cause us to incur higher costs.***

Some of our customers may require that we implement practices that are more stringent than those required by applicable laws with respect to labor requirements, the materials contained in our products, energy efficiency, environmental matters, or other items. To comply with such requirements, we may also require our third-party manufacturing partners to adopt such practices, as needed. Our third-party manufacturing partners may in the future refuse to implement these practices or may charge us more for complying with them. If certain of our third-party manufacturing partners refuse to implement the practices, we may be forced to source from alternate third-party manufacturing partners. The cost to implement such practices may cause us to incur higher costs and reduce our profitability, and if we do not implement such practices, such customers may disqualify us as a supplier, resulting in decreased revenue opportunities. Developing, enforcing, and auditing customer-requested practices at our own sites and in our supply chain will increase our costs and may require more personnel.

***Changes in existing tax laws, tax rules, or tax practices may adversely affect our financial results.***

The rules governing U.S. federal, state, and local and non-U.S. taxation are constantly under review by persons involved in the legislative process, the Internal Revenue Service, the U.S. Treasury Department, and other taxing authorities. Changes to tax laws or tax rulings, or changes in interpretations of existing laws (which changes may have retroactive application), could adversely affect us or holders of our common stock. These changes could subject us to additional income-based taxes and non-income taxes (such as payroll, sales, use, value-added, digital tax, net worth, property, and goods and services taxes), which in turn could materially affect our financial position and results of operations. Additionally, new, changed, modified, or newly interpreted or applied tax laws could increase our customers' and our compliance, operating, and other costs, as well as the costs of our products. In recent years, many such changes have been made, and changes are likely to continue to occur in the future. As we expand the scale of our business activities, any changes in the U.S. and non-U.S. taxation of such activities may increase our effective tax rate and harm our business, financial condition, and results of operations.

**Risks Related to Our Industry**

***We operate in intensely competitive markets. Our failure to compete effectively, including as a result of industry consolidation, would harm our results of operations.***

The semiconductor industry is extremely competitive. We currently compete with a number of large domestic and international companies, some of which have greater financial, technical, and management resources than us. For example, we are facing, and expect we will continue to face, significant competition in the cloud data center infrastructure market. Our Aries product family primarily competes with products offered by Montage Technology and Parade Technologies, Ltd. Our Taurus product family primarily competes with products offered by Broadcom Inc., Credo Technology Group Holding Ltd., and Marvell Technology, Inc. Our Leo product family primarily competes with products offered by Marvell Technology, Inc., Microchip Technology Inc., Montage Technology, and Rambus Inc. Our efforts to introduce new products into markets with entrenched competitors will expose us to additional competitive pressures. In addition, many of our competitors have longer operating histories, greater name recognition, larger customer bases, and greater sales, marketing, and distribution resources than we do and some operate and maintain their own fabrication facilities.

Additionally, customer expectations and requirements have been evolving rapidly. As a result, some of our competitors may be better situated to meet changing customer needs and secure design wins. Increasing competition in the markets in which we operate may negatively impact our revenue and gross margins. For example, competitors with greater financial resources may be able to offer lower prices than us, or they may offer additional products, services or other incentives that we may be unable to match.

We also may experience discriminatory or anti-competitive practices by our competitors that could impede our growth, cause us to incur additional expense or otherwise negatively affect our business. In addition, some of these competitors may use their market power to dissuade our customers from purchasing from us. The semiconductor industry has experienced significant consolidation in recent years which has resulted in several of our competitors becoming much larger in terms of revenue, product offerings, and scale. Our competitors may also establish cooperative relationships among themselves or with third parties or may acquire companies that provide similar products to ours. We expect this trend to continue as companies attempt to improve the leverage of growing research and development costs, strengthen or hold their market positions in an evolving industry, or are unable to continue operations. Companies that are strategic partners in some areas of our business may acquire or form alliances with our competitors, thereby reducing their business with us. We believe that industry consolidation may result in stronger competitors that are better able to compete as sole-source vendors for customers. This could lead to more variability in our operating results. Any of these factors, alone or in combination with others, could harm our business, financial condition, and results of operations and result in a loss of market share and an increase in pricing pressure.



***Unfavorable or uncertain conditions in the cloud market, as well as for AI infrastructures, may cause fluctuations in our rate of revenue growth or financial results.***

Our solutions are intended to address infrastructure needs for our hyperscaler customers, specifically to support their cloud and AI infrastructure needs. If domestic and global economic conditions worsen, overall spending may be reduced, which would adversely impact demand for our solutions in these cloud and AI infrastructure market. In addition, unfavorable developments with evolving laws and regulations worldwide related to AI, such as those laws that may pause or inhibit continued adoption of AI, including GenAI, may limit global adoption, impede our strategy, and negatively impact our long-term expectations in this area. For example, in light of recent Congressional hearings in the United States, we anticipate that there will continue to be significant developing laws and regulations with respect to AI as the AI industry continues to develop. Even if the demand for cloud and AI compute infrastructure develop in the manner or in the time periods we anticipate, if we do not have timely, competitively priced, market-accepted solutions available to meet our customers' planned roll-out of their systems, particularly as they offer new AI infrastructure offerings, we may miss a significant opportunity and our business, financial condition, results of operations, and cash flows could be materially and adversely affected.

***Raw material price fluctuations or decreased availability of certain raw materials can increase the cost of our products, impact our ability to meet customer commitments, and may adversely affect our business, financial condition, and results of operations.***

The cost of raw materials is a key element in the cost of our products. Our inability to offset material price inflation could adversely affect our business, financial condition, and results of operations. Many major components, product equipment items, and raw materials are procured or subcontracted on a single or sole-source basis. Although we maintain a qualification and performance surveillance process and we believe that sources of supply for raw materials and components are generally adequate, it is difficult to predict what effects shortages or price increases may have in the future. Our inability to meet our supply needs would jeopardize our ability to fulfill obligations under our contracts, which could, in turn, result in reduced sales and profits, contract penalties or terminations, and damage to our customer relationships.

Furthermore, increases in the price of certain raw materials may result in increased production costs and may result in a decrease in our gross margins. For example, in the past the industry has seen shortages of packaging materials, including substrates, and also experienced silicon wafer capacity constraints. If these shortages or other shortages of raw materials are to occur in the future, it may cause delays in our ability to produce our products if we are unable to secure adequate supply. Moreover, our third-party manufacturing partners may pass the increase in raw materials and commodity costs onto us, which would further reduce the gross margin of our products. To the extent that we are able to pass along raw material price increases to some of our customers, there is often a delay between the time we are required to pay the increased price and the time we are able to pass these increases along. In addition, because we are a fabless company, global market trends such as shortage of capacity to fulfill our fabrication needs also may increase our raw material costs and thus decrease our gross margins.

***Our customers rely on many different service providers and component suppliers to build their systems, and the frequency at which our products are purchased by our customers and incorporated into their systems may vary.***

The success of our products is heavily dependent on the timely introduction, quality, and evolving technical requirements for our customers' systems incorporating our products, which are impacted by factors beyond our control. Our customers' systems are often very complex and require very specific components, and as a result our customers' systems could be delayed due to incompatible deliverables from other service providers. Our customers may experience other difficulties with the supply of the various components of their products or testing and manufacturing of their products that are outside of our control. We incur significant design and



development costs in connection with designing our products for customers' systems that may not ultimately achieve market acceptance. If our customers experience changing market requirements, failed evaluations or field trials or incompatible deliverables from other service providers, they may delay, change or cancel a project, and we may have incurred significant additional development costs and may not be able to recoup our costs, which in turn would adversely affect our business, financial condition, and results of operations.

### **Risks Related to our Intellectual Property**

***Our failure to protect our intellectual property rights adequately could impair our ability to compete effectively or to defend ourselves from litigation, which could harm our business, financial condition, and results of operations.***

Our success depends in part upon protecting our intellectual property. We rely primarily on patent, copyright, trademark, and trade secret laws, as well as intellectual property assignment and confidentiality and non-disclosure agreements and other methods, to protect and establish our rights in our proprietary technologies and know-how. As of November 1, 2023 we have been issued seven patents in the United States and have an additional 21 patent applications pending in the United States. We cannot guarantee that any pending or future patent applications will be issued to have the coverage originally sought, and even if the pending patent applications are granted, the rights granted to us may not be meaningful or provide us with any commercial advantage. Additionally, our patents could be opposed, contested, narrowed, circumvented, challenged, abandoned, or designed around by our competitors or be declared invalid or unenforceable in judicial or administrative proceedings. The patent prosecution process is expensive, time-consuming, and complex, and we may not be able to file, prosecute, maintain, enforce, or license all necessary or desirable patent applications at a reasonable cost or in a timely manner. It is also possible that we will fail to identify patentable aspects of our research and development output in time to obtain patent protection. Failure to timely seek patent protection on products or technologies generally precludes us from seeking future patent protection on these products or technologies. Even if we do timely seek patent protection, the coverage claimed in a patent application can be significantly reduced before a patent is issued, and its scope can be reinterpreted after issuance, and as a result we can give no assurance that any patents that have issued to may issue in the future will protect our current and future products, will provide us with any competitive advantage, or will not be challenged, invalidated or circumvented in the future.

The failure of our patents to adequately protect our products might make it easier for our competitors to offer similar products or technologies. To the extent we pursue any foreign patent protection, it is unlikely that such protection would be as comprehensive as our U.S. patent protection and may not protect our intellectual property in some countries where our products are sold or may be sold in the future. Many U.S.-based companies have encountered substantial intellectual property infringement in foreign countries, including countries where we sell products. Even if foreign patents are granted, effective protection and enforcement in foreign countries may not be available.

Monitoring unauthorized use of our intellectual property is difficult and costly. Although we are not aware of any material instances of unauthorized use of our intellectual property in the past, it is possible that unauthorized use of our intellectual property may have occurred or may occur in the future without our knowledge. Despite our efforts, our failure to effectively protect our intellectual property could reduce the value of our solutions, and could harm our business, results of operations, and financial condition. Further, we may in the future need to initiate infringement claims or litigation against third parties. Litigation, whether we are a plaintiff or a defendant, can be expensive, time-consuming, and may divert the efforts of our executives, technical staff, and managerial personnel, which could harm our business, whether or not such litigation results in a determination favorable to us.

Some of the software used within our products, as well as that of some of our customers, may be derived from and/or incorporate so-called "open source" software that is generally made available to the public by its

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authors and/or other third parties under open source licenses, which in some instances may subject us to certain unfavorable conditions, including requirements that we offer our proprietary software, which incorporates or links to such open source software, for no cost or that we make such proprietary software publicly available for free.

On occasion, companies that use open source software have faced claims challenging their use of open source software or compliance with open source license terms. There is evolving legal precedent for interpreting the terms of certain open source licenses, including the determination of which works are subject to the terms of such licenses. While we believe we have complied with our obligations under the various applicable licenses for open source software, in the event the copyright holder of any open source software were to successfully establish in court that we had or have not complied with the terms of a license for a particular work, we could be required to release the source code of that work to the public for free and/or stop distribution of that work. Any requirement to disclose our proprietary source code could have a material adverse effect on our business, financial condition, and results of operations, could result in negative publicity and could help our competitors develop products that are similar to or better than ours.

***We utilize a significant amount of intellectual property in our business. If we are unable or fail to protect our intellectual property, our business could be adversely affected.***

We rely on a combination of intellectual property rights, including patents, copyrights, trademarks, and trade secrets, as well as customary contractual protections with our customers, third-party manufacturing partners, employees, and consultants to protect our intellectual property rights. We spend significant resources to monitor and protect our intellectual property rights, including the unauthorized use of our products, usage rates of the software seat licenses and subscriptions that we sell, but even with significant expenditures, we may not be able to protect the intellectual property rights that are valuable to our business. In particular, we are unable to predict or assure that:

- our intellectual property rights will not lapse or be invalidated, circumvented, challenged, or, in the case of third-party intellectual property rights licensed to us, be licensed to others;
- our intellectual property rights will provide competitive advantages to us;
- rights previously granted by third parties to intellectual property licensed or assigned to us, including portfolio cross-licenses, will not hamper our ability to assert our intellectual property rights or hinder the settlement of currently pending or future disputes;
- any of our pending or future patent, copyright, or trademark applications will be issued or have the coverage originally sought;
- we will be able to enforce our intellectual property rights in certain jurisdictions where competition is intense or where legal protection may be weak; or
- we have sufficient intellectual property rights to protect our products or our business.

Effective intellectual property protection may not be available in every country in which we offer our products. The laws of certain jurisdictions where we do business or may do business in the future may not recognize intellectual property rights or protect them to the same extent as do the laws of the United States. Any changes in, or unexpected interpretations of, intellectual property laws may compromise our ability to enforce our trade secret and intellectual property rights. In addition, when patents expire, we lose the protection and competitive advantages they originally provided to us. Failure to obtain or maintain protection of our trade secrets or other intellectual property could harm our competitive position and could have a material adverse effect on our business, financial condition, and results of operations.

Further, we may acquire companies with intellectual property that is subject to licensing obligations to other third parties. These licensing obligations may extend to our own intellectual property following any such

potential acquisition and may limit our ability to assert our intellectual property rights. From time to time, we may pursue litigation to assert our intellectual property rights, including, in some cases, against our customers and third-party manufacturing partners where we believe they have infringed, violated, or misappropriated our intellectual property. Claims of this sort could also harm our relationships with our customers and might deter future customers from doing business with us. Conversely, third parties have and may in the future pursue intellectual property litigation against us. An adverse decision in such types of legal action could result in material expense and limit our ability to assert our intellectual property rights and limit the value of our platform, which could otherwise negatively impact our business, financial condition, and results of operations.

***We rely on third-party technologies for the development of our products and our inability to use such technologies in the future would harm our ability to remain competitive.***

We rely on third parties for technologies that are integrated into our products. If we are unable to continue to use or license these technologies on reasonable terms, or if these technologies become unreliable, unavailable or fail to operate properly, we may not be able to secure adequate alternatives in a timely manner or at all, and our ability to offer our products and remain competitive in our market would be harmed. In addition, even if we are unable to successfully license technology from third-parties to develop future products, we may not be able to develop such products in a timely manner or at all. The operation or security of our products could be impaired if errors or other defects occur in the third-party technologies we use, and it may be more difficult for us to correct any such errors and defects in a timely manner, if at all, because the development and maintenance of these technologies is not within our control. Any impairment of the technologies or of our relationship with these third parties could harm our business.

***We may face claims of intellectual property infringement, misappropriation or other violations, which could be time-consuming or costly to defend or settle, result in the loss of significant rights or harm our relationships with our customers or reputation in the industry.***

From time to time, third parties may assert against us and our customers their patent and other intellectual property rights to technologies that are used in or are important to our business, which may be time consuming and costly to defend or settle. We may in the future, particularly as a public company with an increased profile and visibility, receive communications from others alleging our infringement, misappropriation or other violation of patents, trade secrets or other intellectual property rights. In addition, in the event that we recruit employees or contractors from other companies, including certain potential competitors, and these employees or contractors are involved in the development of products that are similar to the products they assisted in developing for their former employers, we may become subject to claims that such employees or contractors have improperly used or disclosed trade secrets or other proprietary information. We may also in the future be subject to claims by our third-party manufacturing partners, employees, or contractors asserting an ownership right in our patents, patent applications or other intellectual property, as a result of the work they performed on our behalf.

Claims that our products or processes infringe, misappropriate, or otherwise violate third-party intellectual property rights, regardless of their merit or resolution, could be time-consuming or costly to defend or settle and could divert the efforts and attention of our management and technical personnel. Infringement claims also could harm our relationships with our customers and might deter future customers from doing business with us. We do not know whether we will prevail in these proceedings given the complex technical issues and inherent uncertainties in intellectual property litigation. If any pending or future proceedings result in an adverse outcome, we could be required to:

- cease the manufacture, use or sale of the infringing products or processes;
- pay substantial damages for infringement, misappropriation or other violation;
- expend significant resources to develop non-infringing products or processes, which may not be successful;

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- license certain components from the third-party claiming infringement, which license may not be available on commercially reasonable terms, or at all;
- cross-license our products to a competitor to resolve an infringement claim, which could weaken our ability to compete with that competitor; or
- pay substantial damages to our customers or end-users to discontinue their use of or to replace infringing product or process sold to them with non-infringing products or processes, if available.

Additionally, even if successful in such proceedings, our rights in our products or processes may be invalidated, or narrowed. Moreover, there could be public announcements of the results of hearings, motions or other interim proceedings or developments, and if securities analysts or investors perceive these results to be negative, it could have a substantial adverse effect on the price of our common stock. Any of the foregoing results could have a material adverse effect on our business, financial condition, and results of operations.

***Any potential dispute involving patents or other intellectual property could affect our customers, which could trigger our indemnification obligations to them and result in substantial expense to us.***

In any potential dispute involving patents or other intellectual property, our customers could also become the target of litigation. Our agreements with customers generally include indemnification or other provisions under which we agree to indemnify or otherwise be liable to them for losses suffered or incurred as a result of third-party claims of intellectual property infringement. Large indemnity payments could harm our business, financial condition, and results of operations. From time to time, customers require us to indemnify or otherwise be liable to them for breach of confidentiality or failure to implement adequate security measures with respect to their intellectual property and trade secrets. Although we normally contractually limit our liability with respect to such obligations, certain of our customer agreements may not include maximum loss clauses, which may result in substantial liability. Any litigation against our customers could trigger indemnification obligations under some of our agreements, which could result in substantial expense to us, and which could materially and adversely affect our financial results.

### **Risks Related to the Ownership of Our Common Stock and this Offering**

***There has been no prior public market for our common stock and an active, liquid, and orderly trading market may not develop or be sustained following this offering, which could harm the market price of our common stock.***

Prior to this offering, there was no public trading market for our common stock. Although our shares of common stock are expected to be listed on                     , an active trading market for our common stock may never develop or be sustained following this offering. You may not be able to sell your shares of common stock quickly or at the then-current market price if trading in our common stock is not active. The initial public offering price will be determined by negotiations among the lead underwriters and us. Among the factors to be considered in determining the initial public offering price will be our future prospects and the prospects of our industry in general, our revenue and certain other financial and operating information in recent periods, and the market prices of securities and certain financial and operating information of our competitors. However, there can be no assurance that, following the completion of this offering, our common stock will trade at a price equal to or greater than the public offering price.

***The market price of our common stock may be volatile, which could cause the value of your investment to decline, and we may not be able to meet investor or analyst expectations.***

Prior to this offering, our common stock has not been traded in a public market. We cannot predict the extent to which a trading market will develop or how liquid that market might become. The initial public offering price may not be indicative of prices that will prevail in the trading market. The trading price of our common

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stock following this offering is therefore likely to be highly volatile and could be subject to wide fluctuations in price in response to various factors, some of which are beyond our control. These factors include:

- actual or anticipated changes in our results of operations, and variations between our actual results of operations and the expectations of securities analysts, investors, and the financial community;
- any forward-looking financial or operating information we may provide to the public or securities analysts, any changes in this information, or our failure to meet expectations based on this information;
- actions of securities analysts who initiate or maintain coverage of us, changes in financial estimates by any securities analysts who follow our company or our failure to meet these estimates, or the expectations of investors;
- changes in operating the performance and stock market valuations of companies in our industry, including our competitors;
- general economic conditions and slow or negative growth of related markets;
- announcements by us or our competitors of design wins, acquisitions, new products, significant contracts, commercial relationships, or capital commitments;
- our ability to develop and market new and enhanced products on a timely basis;
- commencement of, or our involvement in, litigation;
- disruption to our operations;
- the emergence of new sales channels in which we are unable to compete effectively;
- any major change in our board of directors or management;
- changes in governmental regulations; and
- other events or factors, including those resulting from political conditions, election cycles, war or incidents of terrorism, or responses to these events.

In addition, the stock market in general has experienced extreme price and volume fluctuations. Such fluctuations may be even more pronounced in the trading market shortly following this offering. These broad market and industry factors may seriously harm the market price of our common stock, regardless of our actual operating performance. This variability and unpredictability could also result in our failure to meet the expectations of industry or financial analysts or investors for any period. If our revenues or results of operations fall below the expectations of analysts or investors or below any forecasts we may provide to the market, or if the forecasts we provide to the market are below the expectations of analysts or investors, the price of our common stock could decline substantially. Such a stock price decline could occur even when we have met any previously publicly stated revenue or earnings forecasts that we may provide.

Trading price fluctuations may also make it more difficult for us to use our common stock as a means to make acquisitions or to use options to purchase our common stock to attract and retain employees. In addition, in the past, following periods of volatility in the overall market and the market price of a company's securities, securities class action litigation has often been instituted against these companies. This litigation, if instituted against us, could result in substantial costs and a diversion of our management's attention and resources.

### ***Our revenue and operating results can fluctuate from period to period, which could cause our share price to fluctuate.***

Our revenue and operating results have fluctuated in the past and may fluctuate from period to period in the future due to a variety of factors, many of which are beyond our control. Factors relating to our business that may contribute to these fluctuations include the following factors, as well as other factors described elsewhere in this prospectus:

- the receipt, reduction or cancellation of orders by customers;

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- the gain or loss of significant customers;
- market acceptance of our products and our customers' systems;
- our ability to develop, introduce and market new products and technologies on a timely basis;
- the timing and extent of product development costs;
- new product announcements and introductions by us or our competitors;
- incurrence of research and development and related new product expenditures;
- cyclical fluctuations in our markets;
- significant warranty claims, including those not covered by our third-party manufacturing partners;
- changes in our product mix or customer mix;
- intellectual property disputes; and
- loss of key personnel or the inability to attract qualified personnel.

As a result of these and other factors, the results of any prior quarterly or annual periods should not be relied upon as indications of our future revenue or operating performance. Fluctuations in our revenue and operating results could cause our share price to decline. You should not rely on our past results as an indication of our future performance.

***As a new investor, you will experience immediate and substantial dilution.***

Purchasers in this offering will immediately experience substantial dilution in net tangible book value. Because our common stock has in the past been sold at prices substantially lower than the initial public offering price that you will pay, you will suffer immediate dilution of \$ \_\_\_\_\_ per share in net tangible book value. The exercise of outstanding options warrants or settlement of RSUs in shares upon vesting may result in further dilution.

***Sales of substantial amounts of our common stock in the public markets, or the perception that sales might occur, could cause the trading price of our common stock to decline.***

Sales of a substantial number of shares of our common stock into the public market, particularly sales by our directors, executive officers, and stockholders, or the perception that these sales might occur, could cause the trading price of our common stock to decline. Based on the total number of outstanding shares of our common stock as of December 31, 2023, upon completion of this offering, we will have outstanding a total of \_\_\_\_\_ shares of common stock. This assumes no exercise of outstanding options and gives effect to the net issuance of common stock issuable pursuant to the vesting and settlement of RSUs for which the time and service condition was satisfied as of December 31, 2023, and the issuance of \_\_\_\_\_ shares of common stock on the completion of this offering.

Substantially all of our securities outstanding prior to the completion of this offering are currently restricted from resale as a result of lock-up and market standoff agreements. See the section titled "Shares Eligible for Future Sale" for additional information.

\_\_\_\_\_ may, in their discretion, permit our security holders to sell shares prior to the expiration of the restrictive provisions contained in the lock-up agreements. Sales of a substantial number of these shares upon expiration of the lock-up and market standoff agreements, the perception that such sales may occur or early release of these agreements could cause the trading price of our common stock to fall or make it more difficult

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for you to sell your shares of common stock at a time and price that you deem appropriate. Shares held by directors, executive officers, and other affiliates will also be subject to volume limitations under Rule 144 under the Securities Act, and various vesting agreements.

In addition, as of December 31, 2023, we had \_\_\_\_\_ options outstanding that, if fully exercised, would result in the issuance of \_\_\_\_\_ shares of common stock, as well as \_\_\_\_\_ shares of common stock issuable upon the settlement of \_\_\_\_\_ RSU awards outstanding. All of the shares of common stock issuable upon the exercise of stock options, subject to RSU awards and the shares reserved for future issuance under our equity incentive plans will be registered for public resale under the Securities Act. Accordingly, these shares will be able to be freely sold in the public market upon issuance, subject to existing lock-up or market standoff agreements, volume limitations under Rule 144 for our executive officers and directors and applicable vesting requirements. In addition, we intend to file one or more registration statements covering shares of our common stock issued pursuant to our equity incentive plans permitting the resale of such shares by non-affiliates in the public market without restriction under the Securities Act and the sale by affiliates in the public market subject to compliance with the resale provisions of Rule 144.

Following this offering, the holders of up to \_\_\_\_\_ shares of our common stock will have rights, subject to some conditions, to require us to file registration statements for the public resale of the common stock issuable upon conversion of such shares or to include such shares in registration statements that we may file for us or other stockholders. Any registration statement we file to register additional shares, whether as a result of registration rights or otherwise, could cause the trading price of our common stock to decline or be volatile.

***We anticipate spending substantial funds in connection with the tax liabilities that arise upon the initial settlement of RSUs in connection with this offering and following this offering. The manner in which we fund these expenditures may have an adverse effect on our financial condition.***

We anticipate that we will spend substantial funds to satisfy certain income tax withholding and remittance obligations when we settle our RSUs granted prior to the date of this prospectus, as well as those granted after the date of this prospectus. As of December 31, 2023, \_\_\_\_\_ RSUs were outstanding that vest upon the satisfaction of both a time and service condition and a liquidity event condition prior to the expiration date applicable to the RSU. The time and service condition for the majority of our outstanding RSUs is typically satisfied over a period of four years. The liquidity event condition will be satisfied upon the completion of this offering. The RSUs vest on the first date upon which both the time and service-based vesting condition and the liquidity event condition are satisfied, and upon vesting we anticipate withholding shares and remitting income taxes on behalf of the holders at the applicable statutory rates, which we refer to as net settlement. Based on the number of RSUs outstanding as of December 31, 2023, for which the time and service condition has been satisfied on that date, and assuming the liquidity event condition had been satisfied on that date, we estimate that these income tax withholding and remittance obligations would be approximately \$ \_\_\_\_\_ in the aggregate. We currently expect that the average of these withholding tax rates will be approximately \_\_\_\_\_ %, based on the initial public offering price of \$ \_\_\_\_\_ per share, the midpoint of the price range set forth on the cover page of this prospectus, and the income taxes due would be based on the then-current value of the underlying shares of our common stock. The amount of these obligations could be higher or lower, depending on the price of shares of our common stock and the actual number of RSUs outstanding for which the time and service condition has been satisfied on the initial settlement date for those RSUs. To settle these RSUs on the initial settlement date, we would expect to deliver an aggregate of approximately \_\_\_\_\_ shares of our common stock to the RSU holders after withholding an aggregate of approximately \_\_\_\_\_ shares of our common stock. In order to fund certain tax withholding and remittance obligations on behalf of our RSU holders, we expect to use a portion of the net proceeds from this offering.

***Our management will have broad discretion in the use of proceeds from this offering and may not use them effectively.***

Our management will have broad discretion in the application of the net proceeds to us from this offering, including for any of the purposes described in “Use of Proceeds” and you will not have the opportunity as part of your investment decision to assess whether the net proceeds are being used appropriately. Due to the number and variability of factors that will determine our use of the net proceeds from this offering, their ultimate use may vary substantially from their currently intended use. The failure by our management to apply these funds effectively could adversely affect our business. Pending their use, we may invest the net proceeds from this offering in short-term, investment-grade interest-bearing securities such as money market accounts, certificates of deposit, commercial paper, and guaranteed obligations of the U.S. government. Our investments may not yield a favorable return to our investors. If we do not use the net proceeds that we receive in this offering effectively, our business, results of operations, and financial condition could be adversely affected.

***Our issuance of additional capital stock in connection with financings, acquisitions, investments, our stock incentive plans, or otherwise will dilute all other stockholders and could negatively affect our results of operations.***

We expect to issue additional capital stock in the future that will result in dilution to all other stockholders. We expect to grant equity awards to employees, directors, consultants, and advisors under our stock incentive plans. We may also raise capital through equity financings in the future. As part of our business strategy, we may acquire or make investments in complementary companies, products, or technologies and issue equity securities to pay for any such acquisition or investment. Any such issuances of additional capital stock may cause stockholders to experience significant dilution of their ownership interests and the per share value of our common stock to decline. Any additional grants of equity awards under our stock incentive plans will also increase stock-based compensation expense and negatively affect our results of operations. Commencing in June 2022, we began granting RSUs to employees. These RSUs vest upon the satisfaction of both a time and service condition and a liquidity event condition. In the quarter that we complete this initial public offering, we will record stock-based compensation expense for all RSUs that have met the time and service condition to date. As of December 31, 2023, no stock-based compensation expense had been recognized for RSUs because the liquidity event condition had not occurred. If our initial public offering had occurred on December 31, 2023, we would have recognized \$ \_\_\_\_\_ of cumulative stock-based compensation expense on that date. Furthermore, assuming our initial public offering had occurred on December 31, 2023, on that date we would have had an additional unrecognized stock-based compensation expense of \$ \_\_\_\_\_ relating to these RSUs. As a public company, our RSUs will only be subject to time and service-based vesting, and accordingly we expect to continue to incur stock-based compensation expense as these RSUs vest.

***After this offering, our executive officers, directors, and stockholders, if they choose to act together, will continue to have the ability to control or significantly influence all matters submitted to shareholders for approval.***

Following the completion of this offering, and without giving effect to any purchases that may be made in this offering, our executive officers, directors, and greater than 5% stockholders, in the aggregate, will beneficially own approximately \_\_\_\_\_ % of our outstanding common stock (assuming no exercise of the underwriters’ option to purchase additional shares of common stock and no exercise of outstanding options warrants or settlement of RSUs in shares upon vesting). As a result, such persons, acting together, will have the ability to control or significantly influence all matters submitted to our board of directors or shareholders for approval, including the appointment of our management, the election and removal of directors and approval of any significant transaction, as well as our management and business affairs. In addition, if any of our executive officers, directors, and greater than 5% stockholders were to purchase shares in this offering, or if any of our other current investors were to purchase shares in this offering and become greater than 5% stockholders as a result, the ability of such persons, acting together, to control or significantly influence such matters will increase.



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This concentration of ownership may have the effect of delaying, deferring, or preventing a change in control, impeding a merger, consolidation, takeover or other business combination involving us, or discouraging a potential acquiror from making a tender offer or otherwise attempting to obtain control of our business, even if such a transaction would benefit other shareholders.

***We are an emerging growth company, and any decision on our part to comply only with certain reduced reporting and disclosure requirements applicable to emerging growth companies could make our common stock less attractive to investors.***

We are an “emerging growth company” within the meaning of the Securities Act, as modified by the JOBS Act, and we may take advantage of certain exemptions from various reporting requirements that are applicable to other public companies that are not emerging growth companies including, but not limited to, not being required to comply with the auditor attestation requirements of Section 404 of the Sarbanes-Oxley Act, reduced disclosure obligations regarding executive compensation in our periodic reports and proxy statements, and exemptions from the requirements of holding a nonbinding advisory vote on executive compensation and stockholder approval of any golden parachute payments not previously approved. As a result, our stockholders may not have access to certain information they may deem important. We could be an emerging growth company for up to five years or the earlier of, (i) the last day of the fiscal year in which we have total annual gross revenue of \$1.235 billion or more, (ii) the date on which we have issued more than \$1.0 billion in non-convertible debt during the previous three years, or (iii) the date on which we are deemed to be a large accelerated filer under the rules of the SEC. We cannot predict whether investors will find our securities less attractive because we will rely on these exemptions. If some investors find our securities less attractive as a result of our reliance on these exemptions, the trading prices of our securities may be lower than they otherwise would be, there may be a less active trading market for our securities, and the trading prices of our securities may be more volatile.

Further, Section 102(b)(1) of the JOBS Act exempts emerging growth companies from being required to comply with new or revised financial accounting standards until private companies (that is, those that have not had a Securities Act registration statement declared effective or do not have a class or series of securities registered under the Exchange Act) are required to comply with the new or revised financial accounting standards. The JOBS Act provides that a company can elect to opt out of the extended transition period and comply with the requirements that apply to non-emerging growth companies but any such election to opt out is irrevocable. We have elected not to opt out of such extended transition period, which means that when a standard is issued or revised and it has different application dates for public or private companies, we, as an emerging growth company, can adopt the new or revised standard at the time private companies adopt the new or revised standard. This may make it difficult or impossible to compare our financial results with the financial results of another public company that is either not an emerging growth company or is an emerging growth company that has chosen not to take advantage of the extended transition period exemptions because of the potential differences in accounting standards used.

***Provisions in our charter documents and under Delaware law could make an acquisition of our company more difficult, limit attempts by our stockholders to replace or remove our current board of directors, and limit the trading price of our common stock.***

Provisions in our amended and restated certificate of incorporation and amended and restated bylaws may have the effect of delaying or preventing a change of control or changes in our management. Our amended and restated certificate of incorporation and amended and restated bylaws, which became effective immediately prior to the completion of this offering, include provisions that:

- provide that our board of directors will be classified into three classes of directors with staggered three-year terms;
- permit our board of directors to establish the number of directors and fill any vacancies and newly-created directorships;

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- require super-majority voting to amend our amended and restated bylaws; provided, however, that majority voting shall be required to amend our amended and restated bylaws if our board of directors recommends that the stockholders approve such amendment;
- authorize the issuance of “blank check” preferred stock that our board of directors could use to implement a stockholder rights plan;
- prohibit stockholder action by written consent;
- provide that only our board of directors will be authorized to call a special meeting of stockholders;
- provide that the board of directors is expressly authorized to alter or repeal our amended and restated bylaws; and
- contain advance notice requirements for nominations for election to our board of directors or for proposing matters that can be acted upon by stockholders at annual stockholder meetings.

Moreover, Section 203 of the Delaware General Corporation Law (“DGCL”) may discourage, delay, or prevent a change in control of our company. Section 203 imposes certain restrictions on mergers, business combinations, and other transactions between us and holders of 15% or more of our common stock. See the section titled “Description of Capital Stock” for additional information.

***If securities or industry analysts do not publish research, or publish inaccurate or unfavorable research, about our business, the trading price of our common stock and trading volume could be adversely affected.***

The trading market for our common stock will depend in part on the research and reports that securities or industry analysts publish about us or our business. Securities and industry analysts do not currently, and may never, publish research on our company. If few securities analysts commence coverage of us, or if industry analysts cease coverage of us, the trading price for our common stock would be negatively affected. If one or more of the analysts who cover us downgrade our common stock or publish inaccurate or unfavorable research about our business, our common stock trading price would likely decline. If one or more of these analysts cease coverage of us or fail to publish reports on us on a regular basis, demand for our common stock could decrease, potentially causing our common stock trading price and trading volume to decline.

***We do not expect to declare or pay any dividends on our common stock for the foreseeable future.***

We do not intend to pay cash dividends on our common stock for the foreseeable future. Consequently, investors must rely on sales of their common stock after price appreciation, which may never occur, as the only way to realize any future gains on their investment. Investors seeking dividends should not purchase our common stock. Any future determination to pay dividends will be at the discretion of our board of directors and subject to, among other things, our compliance with applicable law, and depending on, among other things, our business prospects, financial condition, results of operations, cash requirements and availability, capital expenditure needs, the terms of any preferred equity securities we may issue in the future, covenants in the agreements governing any future indebtedness, other contractual restrictions, industry trends, and any other factors or considerations our board of directors may regard as relevant.

***Our amended and restated bylaws to be adopted immediately following the completion of this offering designate specific courts as the sole and exclusive forum for certain disputes that may be initiated by our stockholders, which could limit our stockholders’ ability to obtain a favorable judicial forum for disputes with us or our directors, officers, or employees.***

Pursuant to our second amended and restated bylaws that will be adopted immediately following the completion of this offering, unless we consent in writing to the selection of an alternative forum, the Court of

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Chancery of the State of Delaware will be the sole and exclusive forum for state law claims for (i) any derivative action or proceeding brought on our behalf; (ii) any action asserting a claim of, or a claim based on, a breach of a fiduciary duty owed by any current or former director, officer or other employee of ours to us or our stockholders; (iii) any action asserting a claim pursuant to any provision of the DGCL, our second amended and restated certificate of incorporation or our second amended and restated bylaws or as to which the DGCL confers jurisdiction on the Court of Chancery of the State of Delaware; (iv) any action to interpret, apply, enforce, or determine the validity of our second amended and restated certificate of incorporation or our second amended and restated bylaws, or (v) any action asserting a claim governed by the internal affairs doctrine (collectively, the “Delaware Forum Provision”). The Delaware Forum Provision does not apply to any causes of action arising under the Securities Act or the Securities Exchange Act of 1934, as amended (the “Exchange Act”). Our second amended and restated bylaws further provide that unless we consent in writing to the selection of an alternative forum, the federal district courts of the United States will be the sole and exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act or the Exchange Act and the respective rules and regulations promulgated thereunder (the “Federal Forum Provision”). In addition, our second amended and restated bylaws provide that any person or entity purchasing or otherwise acquiring any interest in shares of our common stock is deemed to have notice of and consented to the Delaware Forum Provision and the Federal Forum Provision; provided, however, that stockholders cannot and will not be deemed to have waived our compliance with the federal securities laws and the rules and regulations thereunder.

We recognize that the Delaware Forum Provision and the Federal Forum Provision in our second amended and restated bylaws may impose additional litigation costs on stockholders in pursuing any such claims. Additionally, the forum selection clauses in our second amended and restated bylaws may limit our stockholders’ ability to bring a claim in a judicial forum that they find favorable for disputes with us or our directors, officers or employees, which may discourage the filing of lawsuits against us and our directors, officers, and employees, even though an action, if successful, might benefit our stockholders. In addition, Section 22 of the Securities Act creates concurrent jurisdiction for federal and state courts over all suits brought to enforce any duty or liability created by the Securities Act or the rules and regulations thereunder. While the Delaware Supreme Court and other state courts have upheld the validity of the federal forum selection provisions purporting to require claims under the Securities Act be brought in federal court, there is uncertainty as to whether courts in other states will enforce our Federal Forum Provision. If the Federal Forum Provision is found to be unenforceable in an action, we may incur additional costs associated with resolving such an action. The Federal Forum Provision may also impose additional litigation costs on stockholders who assert that the provision is not enforceable or invalid. The Court of Chancery of the State of Delaware and the federal district courts of the United States may also reach different judgments or results than would other courts, including courts where a stockholder considering an action may be located or would otherwise choose to bring the action, and such judgments may be more or less favorable to us than our stockholders.

## **General Risk Factors**

***We will incur increased costs as a result of operating as a public company, and our management will be required to devote substantial time to support compliance with our public company responsibilities and corporate governance practices.***

As a public company, we will incur significant finance, legal, accounting, and other expenses, including director and officer liability insurance, that we did not incur as a private company, and which we expect to further increase after we are no longer an “emerging growth company.” The Sarbanes-Oxley Act, the Dodd-Frank Act, stock exchange listing requirements, and other applicable securities rules and regulations impose various requirements on public companies in the United States. Our management and other personnel are expected to devote a substantial amount of time to support compliance with these requirements. Moreover, these rules and regulations will increase our legal and financial compliance costs and will make some activities more time-consuming and costly. We cannot predict or estimate the amount of additional costs we will incur as a public company or the specific timing of such costs.

***The estimates of market opportunity and forecasts of market growth included in this prospectus may prove to be inaccurate, and even if the markets in which we compete achieve the forecasted growth, our business may not grow at similar rates, or at all.***

Market opportunity estimates and growth forecasts included in this prospectus are subject to significant uncertainty and are based on assumptions and estimates which may not prove to be accurate, including third-party market research and internal estimates. The estimates and forecasts included in this prospectus relating to size and expected growth of our target markets, as well as our assumptions incorporated in such estimates and forecasts, may prove to be inaccurate. While we believe the information on which we base our market opportunity estimates and forecasts is generally reliable, such information is inherently imprecise. Furthermore, even if the markets in which we compete meet the size estimates and growth forecasts included in this prospectus, our business may not grow at similar rates, or at all. Our growth is subject to many factors, including our success in implementing our business strategy, which is subject to many risks and uncertainties, including those described herein. If our market opportunity estimates or growth forecasts prove to be inaccurate, our future growth opportunities may be limited and there could be a material adverse effect on our prospects, business, financial condition and results of operations.

## SPECIAL NOTE REGARDING FORWARD-LOOKING STATEMENTS

This prospectus contains forward-looking statements within the meaning of the federal securities laws, which are statements that involve substantial risks and uncertainties. Forward-looking statements generally relate to future events or our future financial or operating performance. All statements other than statements of historical fact included in this prospectus, including statements regarding our strategy, future operations, financial position, estimated revenue and losses, projected costs, prospects, plans, and objectives of management are forward-looking statements. In some cases, you can identify forward-looking statements because they contain words such as “may,” “will,” “shall,” “should,” “expects,” “plans,” “anticipates,” “could,” “intends,” “target,” “projects,” “contemplates,” “believes,” “estimates,” “predicts,” “potential,” or “continue” or the negative of these words or other similar terms or expressions that concern our expectations, strategy, plans or intentions. Forward-looking statements contained in this prospectus include, but are not limited to, statements about:

- our expectations regarding our revenue, expenses, and other operating results;
- our ability to acquire new customers and grow our customer base;
- our ability to successfully retain existing customers and expand sales within our existing customer base;
- launching new products and adding new product capabilities;
- future investments in developing and enhancing our business;
- our expectations regarding our ability to expand;
- our anticipated capital expenditures and our estimates regarding our capital requirements;
- the estimated size of our TAM opportunity;
- investments in our selling and marketing efforts;
- our ability to compete effectively with existing competitors and new market entrants;
- our reliance on our senior management team and our ability to identify, recruit, and retain skilled personnel;
- our ability to effectively manage our growth;
- economic and industry trends and other macroeconomic factors, such as fluctuating interest rates and rising inflation; and
- the impact of global pandemics, health crises, political conflicts and other global financial, economic, and political events on our industry, business, and results of operations.

We caution you that the foregoing list may not contain all of the forward-looking statements made in this prospectus.

We have based the forward-looking statements contained in this prospectus primarily on management’s current beliefs and our current expectations and projections about future events and trends that we believe may affect our business, results of operations, financial condition, and prospects. The outcome of the events described in these forward-looking statements is subject to risks, uncertainties, and other factors described in the section titled “Risk Factors” and elsewhere in this prospectus. Moreover, we operate in a very competitive and rapidly changing environment. New risks and uncertainties emerge from time to time, and it is not possible for us to predict all risks and uncertainties that could have an impact on the forward-looking statements contained in this prospectus. The results, events, and circumstances reflected in the forward-looking statements may not be achieved or occur, and actual results, events, or circumstances could differ materially from those described in the forward-looking statements.

The forward-looking statements made in this prospectus relate only to events as of the date on which the statements are made. We undertake no obligation to update any forward-looking statements made in this

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prospectus to reflect events or circumstances after the date of this prospectus or to reflect new information or the occurrence of unanticipated events, except as required by law. We may not actually achieve the plans, intentions, or expectations disclosed in our forward-looking statements and you should not place undue reliance on our forward-looking statements. Our forward-looking statements do not reflect the potential impact of any future acquisitions, mergers, dispositions, joint ventures, or investments we may make.

In addition, statements that “we believe” and similar statements reflect our beliefs and opinions on the relevant subject. These statements are based upon information available to us as of the date of this prospectus, and while we believe such information forms a reasonable basis for such statements, such information may be limited or incomplete, and our statements should not be read to indicate that we have conducted an exhaustive inquiry into, or review of, all potentially available relevant information. These statements are inherently uncertain, and you are cautioned not to unduly rely upon these statements.

## INDUSTRY AND MARKET DATA

This prospectus contains statistical data, estimates, and forecasts regarding our industry that are based on various sources, including independent industry publications and other publicly available information, as well as other information based on our internal sources. Some data and other information contained in this prospectus are also based on management's estimates and calculations, which are derived from our review and interpretation of internal and independent sources. Data regarding the industries in which we compete and our market position and market share within these industries are inherently imprecise and are subject to significant business, economic, and competitive uncertainties beyond our control, but we believe they generally indicate size, position, and market share within this industry. While we believe such information is reliable, we have not independently verified any third-party information. While we believe our internal company research and estimates are reliable, such research and estimates have not been verified by any independent source. In addition, assumptions and estimates of our and our industry's future performance are necessarily subject to a high degree of uncertainty and risk due to a variety of factors, including those described in the section titled "Risk Factors." These and other factors could cause our future performance to differ materially from our assumptions and estimates, and you are cautioned not to give undue weight to these estimates. As a result, you should be aware that market, ranking, and other similar industry data included in this prospectus, and estimates and beliefs based on that data, may not be reliable. Neither we nor the underwriters can guarantee the accuracy or completeness of any such information contained in this prospectus. The content of the below sources, except to the extent specifically set forth in this prospectus, does not constitute a portion of this prospectus and is not incorporated herein.

Certain information in the text of this prospectus is contained in independent industry publications and publicly-available reports. The sources of these independent industry publications and publicly-available reports are provided below:

- IDC, IDC FutureScape: Artificial Intelligence Will Reshape the IT Industry and the Way Businesses Operate (IDC #US51335823) – October 2023;
- IDC, Revelations in the Global StorageSphere (IDC #US49346223) – July 2023;
- \*Gartner, Inc., Strategic Roadmap for Migrating Data Management Solutions to the Cloud – September 2023;
- \*Gartner, Inc., Semiconductors and Electronics Forecast Database, Worldwide, 3Q23 Update – October 2023;
- IDC, Generative Artificial Intelligence: A New Chapter for Enterprise Business Applications (IDC # US50471523) – March 2023;
- SemiAnalysis, AI Server Cost Analysis – Memory Is The Biggest Loser – May 2023;
- Dell'Oro Group, Data Center IT Capex Five Year Forecast Report 2023-2027 – July 2023;
- Yole Intelligence, Memory-Processor Interface 2023 – Focus on Compute Express Link (CXL) – September 2023;
- ABI Research, PCI Express Market Vertical Opportunity – April 2023;
- 650 Group, LLC, Interconnect Functionality – Evolution or Revolution to Support AI and ML Workloads? Forecast and Report – November 2022; and
- 650 Group, LLC, Active Electrical Cables (AEC) Quarterly Market and Long-Term Forecast Report, Q2 2023 – August 2023.

\*The Gartner Report(s) described herein, (the "Gartner Report(s)") represent(s) research opinion or viewpoints published, as part of a syndicated subscription service, by Gartner, Inc. ("Gartner"), and are not representations of fact. Each Gartner Report speaks as of its original publication date (and not as of the date of this Prospectus) and the opinions expressed in the Gartner Report(s) are subject to change without notice.

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## USE OF PROCEEDS

We estimate that the net proceeds from the sale of shares of our common stock that we are selling in this offering will be approximately \$ [redacted] million (or approximately \$ [redacted] million if the underwriters' option to purchase additional shares is exercised in full), based upon an assumed initial public offering price of \$ [redacted] per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us.

Each \$1.00 increase or decrease in the assumed initial public offering price of \$ [redacted] per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, would increase or decrease, as applicable, the net proceeds that we receive from this offering by approximately \$ [redacted] million, assuming that the number of shares of common stock offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. Similarly, each increase or decrease of [redacted] million in the number of shares of our common stock offered by us would increase or decrease the net proceeds that we receive from this offering by approximately \$ [redacted] million, assuming the assumed initial public offering price remains the same and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us.

We currently intend to use the net proceeds that we will receive from this offering for working capital and other general corporate purposes. We may also use a portion of the net proceeds that we receive to acquire or invest in complementary businesses, products, services, technologies, or other assets. We do not, however, have any agreements or commitments to enter into any acquisitions or investments at this time.

We also intend to use a portion of the net proceeds we receive from this offering to satisfy the anticipated tax withholding and remittance obligations of approximately \$ [redacted] million related to the settlement of our outstanding RSUs as of December 31, 2023 in connection with this offering, based on [redacted] RSUs outstanding for which the time vesting condition has been satisfied as of December 31, 2023, the assumed initial public offering price of \$ [redacted] per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, and an assumed [redacted] % tax withholding rate. Each \$1.00 increase or decrease in the assumed initial public offering of \$ [redacted] price per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, would increase or decrease the amount we would be required to pay to satisfy our tax withholding and remittance obligations related to the RSU settlement by approximately \$ [redacted] million. In addition, a 1% increase or decrease in the tax withholding rate would increase or decrease the amount of tax withholding and remittance obligations related to the RSU settlement by \$ [redacted] million.

The expected use of net proceeds from this offering represents our intentions based upon our present plans and business conditions. We cannot specify with certainty the particular uses of the net proceeds that we will receive from this offering or the amounts we actually spend on the uses set forth above. The timing and amount of our actual expenditures will be based on many factors, including cash flows from operations and the anticipated growth of our business. Pending the use of proceeds from this offering as described above, we plan to invest a portion of the net proceeds that we receive in this offering in short-term and intermediate-term interest-bearing obligations, investment-grade investments, certificates of deposit, or direct or guaranteed obligations of the U.S. government. Our management will have broad discretion in the application of the net proceeds from this offering and investors will be relying on the judgment of our management regarding the application of the proceeds.



## **DIVIDEND POLICY**

We have never declared or paid any cash dividend on our capital stock. We currently intend to retain any future earnings, if any, to fund the development and expansion of our business and do not expect to pay any dividends in the foreseeable future. Any future determination to declare cash dividends will be made at the discretion of our board of directors, subject to applicable laws, and will depend on a number of factors, including our financial condition, results of operations, capital requirements, any contractual restrictions, general business conditions, and other factors that our board of directors may deem relevant.

## CAPITALIZATION

The following table sets forth cash and restricted cash, as well as our capitalization, as of December 31, 2023 as follows:

- on an actual basis;
- on a pro forma basis, giving effect to (i) the filing and effectiveness of our second amended and restated certificate of incorporation and the adoption of our second amended and restated bylaws; (ii) the automatic conversion of all of our outstanding convertible preferred stock into an equal number of shares of our common stock; (iii) the net issuance of \_\_\_\_\_ shares of our common stock issuable pursuant to the vesting and settlement of RSUs for which the time condition was satisfied as of December 31, 2023, and for which the liquidity event condition will be satisfied upon completion of this offering, after withholding an aggregate of \_\_\_\_\_ shares to satisfy associated estimated income tax obligations (based on an assumed \_\_\_\_\_ % tax withholding rate); (iv) the increase in other accrued liabilities and an equivalent decrease in additional paid-in capital in connection with tax withholding and remittance obligations related to such RSUs, based upon the initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, all of which will occur immediately prior to the completion of this offering, as if such actions had occurred on December 31, 2023; and (v) \$ \_\_\_\_\_ million of cumulative share-based compensation expense related to the RSUs for which the time condition was satisfied as of December 31, 2023, which expense was unrecognized as of December 31, 2023, and for which the liquidity event condition will be satisfied upon completion of this offering; and
- on a pro forma as adjusted basis, giving effect to (i) the pro forma adjustments set forth above and (ii) the sale and issuance by us of \_\_\_\_\_ shares of our common stock in this offering, based on an assumed initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us.

The pro forma as adjusted information set forth in the table below is illustrative only and will be adjusted based on the actual initial public offering price and other final terms of this offering. You should read this table together with our consolidated financial statements and related notes, and the section titled “Management’s Discussion and Analysis of Financial Condition and Results of Operations” that are included elsewhere in this prospectus.

|  | As of December 31, 2023                         |           |                       |
|--|---|-----------|-----------------------|
|  | Actual  | Pro Forma | Pro Forma as Adjusted |
|  | (in thousands, except share and per share data) |           |                       |
| Cash and cash equivalents  | \$  | \$        | \$                    |
| Redeemable convertible preferred stock, par value \$0.0001 per share: shares authorized and shares issued and outstanding, actual; no shares authorized, issued and outstanding, pro forma and pro forma as adjusted   |   |           |                       |
| Stockholders’ equity (deficit):  |   |           |                       |
| Common stock, \$ _____ par value; _____ shares authorized, shares issued and outstanding, actual; _____ shares authorized, _____ shares issued and outstanding, pro forma; _____ shares authorized, _____ shares issued and outstanding, pro forma as adjusted |   |           |                       |
| Preferred stock, par value \$ _____ per share: no shares authorized, issued and outstanding, actual; _____ shares authorized, no shares issued and outstanding, pro forma and pro forma as adjusted  |   |           |                       |
| Additional paid-in capital   |   |           |                       |
| Accumulated deficit  |   |           |                       |
| Total stockholders’ equity (deficit):  |   |           |                       |
| Total capitalization   | \$  | \$        | \$                    |

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Each \$1.00 increase or decrease in the assumed initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, would increase or decrease, as applicable, our cash and cash equivalents, additional paid-in capital, total stockholders' equity (deficit), and total capitalization by approximately \$ \_\_\_\_\_ million, assuming that the number of shares offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting the estimated underwriting discounts and commissions and estimated offering expenses payable by us. Similarly, each increase or decrease of 1.0 million shares in the number of shares of our common stock offered by us would increase or decrease, as applicable, our cash and cash equivalents, additional paid-in capital, total stockholders' equity (deficit), and total capitalization by approximately \$ \_\_\_\_\_ million, assuming the assumed initial public offering price remains the same, and after deducting underwriting discounts and commissions and estimated offering expenses payable by us.

The pro forma column in the table above is based on \_\_\_\_\_ shares of our common stock outstanding as of December 31, 2023, and excludes:

- \_\_\_\_\_ shares of our common stock issuable upon the exercise of options to purchase shares of our common stock that were outstanding as of December 31, 2023, with a weighted-average exercise price of \$ \_\_\_\_\_ per share;
- \_\_\_\_\_ shares of our common stock that are issuable in connection with the settlement of RSUs upon satisfaction of both a time condition and a liquidity event condition, for which the time condition has not yet been satisfied as of December 31, 2023, that were granted prior to December 31, 2023;
- \_\_\_\_\_ shares of our common stock issuable upon the exercise of warrants to purchase shares of our common stock outstanding as of December 31, 2023, with a weighted-average exercise price of \$ \_\_\_\_\_ per share;
- \_\_\_\_\_ shares of our common stock reserved for future issuance pursuant to our 2018 Plan, which shares will be added to the shares of our common stock reserved for future issuance under our 2024 Plan;
- \_\_\_\_\_ shares of our common stock reserved for future issuance under our 2024 Plan; and
- \_\_\_\_\_ shares of our common stock reserved for future issuance under our ESPP.

Each of our 2024 Plan and our ESPP provide for annual automatic increases in the number of shares of our common stock reserved thereunder, and our 2024 Plan provides for increases to the number of shares of our common stock that may be granted thereunder based on shares underlying any awards under our 2018 Plan that expire, are forfeited or are otherwise terminated, as more fully described in the section titled "Executive Compensation—Employee Benefit and Equity Compensation Plans."

## DILUTION

If you invest in our common stock in this offering, your ownership interest will be diluted to the extent of the difference between the initial public offering price per share of our common stock and the pro forma as adjusted net tangible book value per share of our common stock immediately after this offering. Net tangible book value dilution per share to new investors represents the difference between the amount per share paid by purchasers of shares of common stock in this offering and the pro forma as adjusted net tangible book value per share of common stock immediately after completion of this offering.

Our pro forma net tangible book value as of December 31, 2023 was \$ \_\_\_\_\_ million, or \$ \_\_\_\_\_ per share, based on the total number of shares of our common stock outstanding as of December 31, 2023, after giving effect to (i) the filing and effectiveness of our second amended and restated certificate of incorporation and the adoption of our second amended and restated bylaws; (ii) the conversion of all of our outstanding convertible preferred stock into an equal number of shares of our common stock; (iii) the net issuance of \_\_\_\_\_ shares of our common stock issuable pursuant to the vesting and settlement of RSUs for which the time condition was satisfied as of December 31, 2023, and for which the liquidity event condition will be satisfied upon completion of this offering, after withholding an aggregate of \_\_\_\_\_ shares to satisfy associated estimated income tax obligations (based on an assumed \_\_\_\_\_ % tax withholding rate); (iv) the increase in other accrued liabilities and an equivalent decrease in additional paid-in capital in connection with tax withholding and remittance obligations related to such RSUs, based upon the initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, all of which will occur immediately prior to the completion of this offering, as if such actions had occurred on December 31, 2023; and (v) \$ \_\_\_\_\_ million of cumulative share-based compensation expense related to the RSUs for which the time condition was satisfied as of December 31, 2023, which expense was unrecognized as of December 31, 2023, and for which the liquidity event condition will be satisfied upon completion of this offering.

After giving effect to the sale by us of \_\_\_\_\_ shares of our common stock in this offering at an assumed initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us, our pro forma as adjusted net tangible book value as of December 31, 2023 would have been \$ \_\_\_\_\_ million, or \$ \_\_\_\_\_ per share. This represents an immediate increase in pro forma net tangible book value of \$ \_\_\_\_\_ per share to our existing stockholders and immediate dilution of \$ \_\_\_\_\_ per share to investors purchasing shares of our common stock in this offering. The following table illustrates this dilution:

|  |          |
|--|----------|
| Assumed initial public offering price per share  | \$       |
| Pro forma net tangible book value per share as of December 31, 2023                                    | \$       |
| Increase in pro forma net tangible book value per share attributable to new investors in this offering | _____    |
| Pro forma as adjusted net tangible book value per share immediately after this offering                | _____    |
| Dilution in pro forma net tangible book value per share to new investors in this offering              | \$ _____ |

Each \$1.00 increase or decrease in the assumed initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, would increase or decrease, as applicable, our pro forma as adjusted net tangible book value per share to new investors by \$ \_\_\_\_\_, and would increase or decrease, as applicable, dilution per share to new investors in this offering by \$ \_\_\_\_\_, assuming that the number of shares of our common stock offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us and tax withholdings related to the settlement of RSUs.

In addition, to the extent any outstanding options to purchase common stock are exercised, new investors would experience further dilution. If the underwriters exercise their option to purchase additional shares of our

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common stock from us in full, the pro forma as adjusted net tangible book value per share of our common stock immediately after this offering would be \$ \_\_\_\_\_ per share, and the dilution in pro forma net tangible book value per share to new investors in this offering would be \$ \_\_\_\_\_ per share.

The following table presents, on a pro forma as adjusted basis as of December 31, 2023, the differences between the existing stockholders and the new investors purchasing shares of our common stock in this offering with respect to the number of shares purchased from us, the total consideration paid or to be paid to us, which includes net proceeds received from the issuance of common stock, and the average price per share paid or to be paid to us at an assumed initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, before deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us:

|  | Shares Purchased |         | Total Consideration      |         | Average Price<br>per Share |
|--|------------------|---------|--------------------------|---------|----------------------------|
|  | Number           | Percent | Amount<br>(in thousands) | Percent |                            |
| Existing stockholders  |                  | %       | \$                       | %       | \$                         |
| Investors purchasing shares of our common stock in this offering |                  |         |                          |         |                            |
| Total  |                  | 100%    | \$                       | 100%    |                            |

Each \$1.00 increase or decrease in the assumed initial public offering price of \$ \_\_\_\_\_ per share, which is the midpoint of the estimated offering price range set forth on the cover page of this prospectus, would increase or decrease, as applicable, the total consideration paid by new investors and total consideration paid by all stockholders by approximately \$ \_\_\_\_\_ million, assuming that the number of shares of common stock offered by us, as set forth on the cover page of this prospectus, remains the same and after deducting estimated underwriting discounts and commissions and estimated offering expenses payable by us. In addition, to the extent any outstanding options to purchase common stock are exercised, new investors will experience further dilution.

Except as otherwise indicated, the above discussion and tables assume no exercise of the underwriters' option to purchase additional shares of common stock. If the underwriters exercise their option to purchase additional shares of common stock in full from us, our existing stockholders will own \_\_\_\_\_ % and our new investors would own \_\_\_\_\_ % of the total number of shares of our common stock outstanding upon the completion of this offering.

The number of shares of our common stock that will be outstanding after this offering is based on \_\_\_\_\_ shares of our common stock outstanding as of December 31, 2023, and excludes:

- \_\_\_\_\_ shares of our common stock issuable upon the exercise of options to purchase shares of our common stock that were outstanding as of December 31, 2023, with a weighted-average exercise price of \$ \_\_\_\_\_ per share;
- \_\_\_\_\_ shares of our common stock that are issuable in connection with the settlement of RSUs upon satisfaction of both a time condition and a liquidity event condition, for which the time condition has not yet been satisfied as of December 31, 2023, that were granted prior to December 31, 2023;
- \_\_\_\_\_ shares of our common stock issuable upon the exercise of warrants to purchase shares of our common stock outstanding as of December 31, 2023, with a weighted-average exercise price of \$ \_\_\_\_\_ per share;
- \_\_\_\_\_ shares of our common stock reserved for future issuance pursuant to our 2018 Plan, which shares will be added to the shares of our common stock reserved for future issuance under our 2024 Plan;
- \_\_\_\_\_ shares of our common stock reserved for future issuance under our 2024 Plan; and
- \_\_\_\_\_ shares of our common stock reserved for future issuance under our ESPP.

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Each of our 2024 Plan and our ESPP provide for annual automatic increases in the number of shares of our common stock reserved thereunder, and our 2024 Plan provides for increases to the number of shares of our common stock that may be granted thereunder based on shares underlying any awards under our 2018 Plan that expire, are forfeited or are otherwise terminated, as more fully described in the section titled “Executive Compensation—Employee Benefit and Equity Compensation Plans.”

To the extent that any outstanding options or warrants to purchase our common stock are exercised, outstanding RSUs vest or new awards are granted under our equity compensation plans, or we issue any securities or convertible debt in the future, there will be further dilution to investors participating in this offering.

## MANAGEMENT'S DISCUSSION AND ANALYSIS OF FINANCIAL CONDITION AND RESULTS OF OPERATIONS

*The following discussion and analysis of our financial condition and results of operations should be read in conjunction with the consolidated financial statements and related notes included elsewhere in this prospectus. This discussion contains forward-looking statements that involve risks and uncertainties. Our actual results could differ materially from those discussed in these forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those identified below and those discussed in the section titled "Risk Factors" and included elsewhere in this prospectus.*

### Overview

Our mission is to innovate, design, and deliver semiconductor-based connectivity solutions that are purpose-built to unleash the full potential of cloud and AI infrastructure.

Building on years of experience with a singular focus on addressing connectivity challenges in data-centric systems, we have developed and deployed our leading Intelligent Connectivity Platform built from the ground up for cloud and AI infrastructure. Our Intelligent Connectivity Platform comprises:

- i) Semiconductor-based, high-speed, mixed-signal connectivity products that integrate a matrix of microcontrollers and sensors; and
- ii) COSMOS, our software suite, which is embedded in our connectivity products and integrated into our customers' systems.

Our Intelligent Connectivity Platform provides our customers with the ability to deploy and operate high-performance cloud and AI infrastructure at scale, addressing an increasingly diverse set of requirements. We provide our connectivity products in various form factors including ICs, boards, and modules.

Our patented software-defined platform approach delivers critical connectivity performance, enables flexibility and customization, and supports observability and predictive analytics. This approach efficiently addresses the data, network, and memory bottlenecks, scalability, and other unique infrastructure requirements of our hyperscaler and system OEM customers.

Based on trusted relationships with the leading hyperscalers and collaboration with data center infrastructure suppliers such as NVIDIA, Advanced Micro Devices, Intel, and many others, our platform is designed to meet our customers' unique cloud scale requirements. Our COSMOS software suite is foundational to our Intelligent Connectivity Platform and is designed to enable our customers to seamlessly configure, manage, monitor, optimize, troubleshoot, and customize functions in our IC, board, and module products.

Today, our connectivity solutions are at the heart of major AI platforms deployed worldwide featuring both commercially available GPUs and proprietary AI accelerators. In the last four years, we have successfully introduced three revenue-generating product families across multiple form factors including ICs, boards, and modules, shipping millions of devices across all of the major hyperscalers. Our products, which include Aries PCIe®/CXL™ Smart DSP Retimers, Taurus Ethernet Smart Cable Modules™, and Leo CXL Memory Connectivity Controllers, leverage our ICs which are built upon industry standard connectivity protocols such as PCIe, Ethernet, and CXL, to address the growing demand for purpose-built connectivity solutions that solve critical data, network, and memory bottlenecks inherent in cloud and AI infrastructure.

Since our inception, we have created and commercialized first-to-market PCIe, Ethernet, and CXL products, and with more than 300 design wins, we have become a trusted partner and a proven supplier to our hyperscaler and system OEM customers. We have experienced strong growth since our founding in October 2017, and particularly since the commercial launch of Aries in 2020. Our revenue grew from \$34.8 million in 2021 and \$79.9 million in 2022 to \$            million in 2023, driven by a significant increase in demand for our products. We have made significant investments in the design and development of new products and platform enhancements, and, as a result, we have not yet achieved profitability on an annual basis. Our gross profit was \$27.5 million in 2021, \$58.7 million in 2022 and \$            million in 2023. We incurred net losses of \$15.4 million in 2021, \$58.3 million in 2022 and \$            million in 2023.

## Our Business Model

Our Intelligent Connectivity Platform provides our customers with the ability to deploy and operate high-performance cloud and AI infrastructure at scale, addressing an increasingly diverse set of requirements. Our singular focus on cloud and AI infrastructure provides us with a deep understanding of our customers' needs that has enabled us to develop a portfolio of high value-added solutions that meet their exacting, complex, and diverse cloud and AI infrastructure requirements.

We provide a complete and differentiated platform consisting of ICs, boards, and modules coupled with our COSMOS software suite and interoperability reports that ensure ease of integration and customer adoption. Our patented software-defined IC architecture utilizes multiple microcontrollers, sensors, and embedded microcode, which enables efficient product development, low latency, and seamless integration with our customers' systems.

In the last four years, we have successfully introduced three revenue-generating product families across multiple form factors including ICs, boards, and modules that are built upon our software-defined architecture:

**Aries PCIe®/CXL™ Smart DSP Retimers.** Our Aries products, which include our COSMOS software suite, are essential to enable higher PCIe/CXL data bandwidth and lower latency interconnectivity between various heterogeneous compute processors, storage, and network controllers. Aries digitally recovers degraded high-speed signals and retransmits a clean copy of the data, thereby extending the reach of existing cost-effective interconnects, while enabling higher data bandwidth.

**Taurus Ethernet Smart Cable Modules™.** Our Taurus products are hardware modules based on our Taurus ICs that increase network connectivity bandwidth between servers and switches over copper media. Taurus modules incorporate our COSMOS software suite and extend Ethernet signaling reach at higher data rates, providing cost-effective, rack-level network connectivity for cloud and AI infrastructure, removing rack-level Ethernet connectivity bottlenecks.

**Leo CXL Memory Connectivity Controllers.** Our Leo products allow our customers to overcome processor memory bandwidth bottlenecks and capacity limitations, while leveraging our COSMOS software suite's built-in memory management and deep diagnostic capabilities. Leo ICs and boards enable expanding, sharing, and pooling of industry standard DRAM memory over high-speed serial links to support memory-intensive workloads running on AI accelerators and CPUs.

We invest significant time and resources in engaging with our hyperscaler and system OEM customers, as well as data center infrastructure suppliers to develop products to meet our customers' specific cloud platform requirements. Through our customer PSSP model, which includes software and hardware customizations, our products meet our hyperscaler customers' specific platform, fleet management, and RAS requirements. Our products feature a powerful array of extensive diagnostics, sophisticated link management, and link telemetry features, which are powered by our COConnectivity System Management and Optimization Software, or COSMOS software suite, enabling our customers to optimize the utilization of their infrastructure, improve their total cost of ownership, and increase their infrastructure resilience through predictive analytics.

We price our products based on their features and capabilities and the value that they provide to our customers. The value that we provide to our customers has increased with successive generations of our product families. To date, the sale of our Aries products has generated the majority of our revenue. Over time, we expect our Taurus and Leo product families to contribute an increasing proportion of our revenue. We expect that the growth of Taurus will be driven by increasing AI server deployment and increasing network connectivity requirements over time. We target adoption of Leo in the fast-moving, large CXL market, which is driven by the increasing adoption of cloud computing.

We have built and deployed our industry-trusted cloud scale Interop Lab and developed comprehensive interoperability test suites. These tests validate performance and interoperability between our connectivity products and other data center infrastructure suppliers' products in real-world scenarios to minimize interoperation risk, reduce system development costs, lower unplanned downtime, and accelerate time-to-market.



We were “born in the cloud”, with our research and development located in the public cloud. This significantly improves the speed of our product design and time-to-market through faster and higher quality tapeouts, and reduces our capital requirements. We also partner with EDA tool providers to run physical design and development flows at cloud scale – thousands of regressions in parallel – allowing for significantly more design iterations and much faster refinements, resulting in faster and higher quality tapeouts.

We use third parties to manufacture our products which include ICs, boards, and modules. The manufacturing process is subject to extensive testing and verification. We use a fabless manufacturing model and partner with TSMC to fabricate all of our ICs. We use Advanced Semiconductor Engineering and Amkor Technologies to assemble, package, and test our ICs. We also rely on a number of other manufacturing partners for our IC substrates, boards, and modules. Importantly, we have built a robust supply chain to meet the exacting demand profile of our hyperscaler and system OEM customers, enabling us to ship millions of units with competitive lead times.

### Key Factors Affecting Our Performance

We believe there are several important factors that have affected and that we expect to continue to affect our results of operations:

**Global demand for accelerated computing and cloud infrastructure.** Accelerated computing is being increasingly deployed through cloud infrastructure, and a significant amount of our product sales is for cloud infrastructure. Our financial performance is heavily influenced by the pace and level of deployment of current and next generation technologies that enable cloud computing. As a result, global demand for cloud computing has a broad impact on our growth. We expect to continue to capitalize on our strong and collaborative relationships with our customers to expand our presence in their cloud platforms and capture the long-term growth opportunity in cloud infrastructure.

**AI adoption and development of increasingly complex models.** We expect to benefit from the growth of the nascent AI industry, which is driving increasing demand for accelerated computing. Recent AI advances, as demonstrated by the launch of ChatGPT by OpenAI in late 2022 and other models, have shown the unprecedented capabilities of GenAI. Given its massive need for computing power, GenAI is only practical at cloud scale, which our products are purpose-built to address. Our Intelligent Connectivity Platform enables and enhances cloud and AI workloads for our customers and their users.

However, AI adoption and usage is still in the early stages. Our financial performance and growth will be driven, in large part, by the demand for AI workloads. As a result, demand for AI technologies will heavily influence our financial performance. We believe that our leadership position in connectivity for AI infrastructure positions us to successfully compete in the market for data, network, and memory connectivity products.

**Introduction of new ecosystem technologies, products, and connectivity standards drives demand for our solutions.** We benefit from the refresh cycles in the data center infrastructure ecosystem, including new releases of GPUs, other AI accelerators, CPUs, storage devices, and networking subsystems, and the adoption of new connectivity standards such as PCIe, Ethernet, and CXL. These advancements generally bring enhanced or new capabilities such as higher computing performance, driving demand for our products.

New releases of ecosystem technologies and standard connectivity protocols impact architecture choices made by hyperscalers and system OEMs. The chosen system topology determines whether our products will be required. New computing products and standards adopted by hyperscalers and system OEMs typically call for high performance architectures, thereby generating more demand for our products. Nevertheless, the state of readiness within the broader data center infrastructure ecosystem may impact the demand for our products, which could be limited if certain ecosystem products do not readily support the new standard connectivity protocols.

We believe our market-leading technology, which is foundational to our Intelligent Connectivity Platform, will allow us to win new and incremental high-volume designs based on our products for cloud and AI infrastructure. We anticipate synergistic benefits for revenue generation across our existing and future product families.

**Design wins with new and existing customers.** We work closely with our customers to develop intelligent connectivity products to meet their specific requirements and have secured more than 300 design wins since our founding. We count a design win as occurring when a customer validates and places an order for our products. We consider design wins important to our future success. Our development process is typically lengthy and may require us to incur significant expenditures in pursuit of a design win with no assurance that our products will be selected. Importantly, to achieve design wins, we must deliver differentiated products and maintain our technological leadership through significant investment in research and development.

In addition, some design wins result in significant revenue and some do not. The timing of such revenue is difficult to predict as it depends on capital expenditure by our customers. Our customers' capital expenditure levels are often not fully known when we are developing products. Some design wins result in orders and significant revenue shortly after the design win while others do not result in significant orders and revenue for many months or longer after the initial design win. As a result, the degree to which we are successful in achieving design wins, and the speed and level at which customers purchase equipment into which our products are designed, impacts our success and financial results. Our customer PSSP approach, which enables symbiotic customer relationships, provides us with differentiated and significant visibility into customer requirements and new content opportunities that strongly positions us for future design wins.

**Product mix, pricing, and product costs.** Our product mix plays an important role in our financial performance, as our prices and margins vary across our products. The pricing of our products is based on their features and capabilities, their form factors, and the value that they provide to our customers. The value we provide to our customers through additional capabilities has increased with successive generations of our product families.

As a particular product matures and unit volumes increase, we expect its pricing to decline, because there are generally step-downs in pricing as production volumes ramp up. While individual product selling prices may decline, we seek to offer new features and functionality to increase the value of our products through generational upgrades. We believe our differentiated products enable us to maintain or increase pricing over time.

Our products have different margin profiles, which are mainly dependent on their form factor. Our ICs carry a higher margin profile than our boards or modules. For example, our gross margins typically decrease on a percentage basis when we incorporate greater third-party hardware content, but our revenue and gross profit per unit increase on a dollar basis. As we design and sell higher-end products, and release generational upgrades to existing products, we expect that our revenue and gross profit per unit will continue to increase with the improved features and capabilities of our products.

**Investment in technology leadership and product development.** We believe our ability to continue to develop and design highly advanced intelligent connectivity products plays a large role in our ability to extend our technology leadership and enable our customers to unleash the full potential of cloud and AI infrastructure. We operate in an industry characterized by changing technologies and connectivity protocols. We work closely with our customers to develop products alongside their product roadmaps and to identify next generation solutions to meet their future needs.

Our revenue growth is dependent on our ability to continually develop and introduce new products and generational upgrades to meet the changing technology and performance requirements of our customers. Our growth also depends on our ability to build upon the success of previously introduced products. In order to remain competitive, we have made, and expect to continue to make, significant investments in research and development. Our research and development expenses in a particular period may be significantly

impacted by specific product or engineering initiatives that we undertake to maintain our competitiveness and expand our product portfolio. By harnessing the scale of cloud computing and performing our research and development in the public cloud, we believe we improve quality, reduce development costs, and accelerate speed of execution, which allows us to get to market faster than traditional semiconductor companies. While our investments in new products and generational upgrades may not result in revenue in the near term, we believe these investments will position us for revenue growth over time.

**Supply chain, manufacturing capacity, and customer inventories.** Our product deliveries are dependent on the global semiconductor supply chain. The continued and timely supply of input materials and the availability of manufacturing capacity and packaging and testing services impact our ability to meet customer demand. Supply chain disruptions, shortages of raw material, and manufacturing limitations could limit our ability to meet customer demand and result in delayed, reduced, or canceled orders. We have established relationships with leading suppliers and partners such as TSMC, Advanced Semiconductor Engineering, and Amkor, and we believe these relationships increase the resiliency of our supply chain for our customers. From time to time, subject to inventory disruptions, our customers may buy and hold excess inventories. Consequently, we may be subject to resulting fluctuations in the demand for our products. We maintain a disciplined approach to pricing, characterized by a balance between cost considerations, market dynamics, and customer value.

## **Key Components of Results of Operations**

### ***Revenue***

The vast majority of our revenue consists of product sales and a small portion is currently derived from engineering services. Product sales consists primarily of shipments of our Intelligent Connectivity Platform solution. We sell to distributors who resell our products as well as contract manufacturers and design partners who manufacture products for our customers. Engineering services revenue consists of engineering fees associated with the development of certain custom features for some of our products. The engineering service revenue accounted for a small percentage of total revenue for the year ended December 31, 2022. We expect engineering service revenue to continue to decrease as a percentage of our total revenue.

For product sales, we transact with customers primarily pursuant to standard purchase orders for delivery of products and generally do not allow customers to cancel or change purchase orders within limited notice periods. We recognize product sales when control transfers to the customer, generally at the time of product shipment from our facilities, in an amount that reflects the consideration we expect to receive in exchange for those goods, net of estimated sales returns, distributor price adjustments, rebates, and other customer incentives. Revenue is also recognized net of any taxes collected, which are subsequently remitted to governmental authorities.

### ***Cost of Revenue***

Cost of revenue includes cost of product sales revenue and cost of engineering services revenue. Cost of product sales revenue includes the cost of materials, such as wafers processed by third-party foundries, cost associated with packaging, assembly, shipping, depreciation of equipment associated with manufacturing, cost of logistics and quality assurance, warranty cost, amortization of capitalized production masks, cost of personnel including salaries, stock-based compensation, and employee benefits, write-down of inventories, and allocation of general corporate expenses including allocated facilities expenses.

While amortization of capitalized production masks has not been historically material, we expect to incur more significant costs in the future as we continue to increase the number of additional products.

### ***Gross Profit and Gross Margin***

Gross profit represents revenue less cost of revenue. Gross margin is gross profit expressed as a percentage of revenue. Our gross profit has been, and may in the future be, influenced by several factors, including sales volume and pricing of our products and services, changes in product costs, contract manufacturing, and supplier pricing, personnel costs, shipping, and logistics costs.

### ***Operating Expenses***

Our operating expenses consist of research and development, sales and marketing, and general and administrative expenses. Personnel costs are the most significant component of operating expenses and consist of salaries, stock-based compensation expense, employee benefits, and bonuses. Operating expenses also include software license costs, pre-production engineering mask costs, professional and consulting services, and overhead costs for facilities and other shared expenses, including depreciation expense.

### ***Research and Development***

Research and development expenses consist of costs incurred in performing research and development activities and include salaries, stock-based compensation expense, employee benefits, bonuses, pre-production engineering mask costs, prototype wafer, packaging and test costs, and allocated facilities expenses. Research and development costs are expensed as incurred.

Pre-production engineering mask costs are expensed. We capitalize the costs of production masks with alternative future use. To determine if a production mask has alternative future use or benefits, we evaluate risks associated with developing new technologies and capabilities, and the related risks associated with entering new markets. Production masks that do not meet the criteria for capitalization will be expensed as research and development costs.

We believe that continued investments in our products are important to our future growth and, as a result, we expect our research and development expenses to continue to increase in absolute dollars. We expect our research and development expenses as a percentage of revenue to moderately decline over time if our revenue increases.

### ***Sales and Marketing***

Sales and marketing expenses consist of personnel costs including salaries, stock-based compensation expense, employee benefits, bonuses, samples to potential customers, travel and entertainment costs, and allocated facilities expenses.

We expect that our sales and marketing expenses will increase in absolute dollars as we increase our sales and marketing personnel and continue to expand our customer engagement with more design activities and increased product offerings. We expect our sales and marketing expenses as a percentage of revenue to moderately decline over time if our revenue increases.

### ***General and Administrative***

General and administrative expenses consist primarily of personnel costs including salaries, stock-based compensation expense, employee benefits and bonuses related to corporate, finance, legal and human resource functions, professional services fees, audit and compliance expenses, insurance costs, and general corporate expenses including allocated facilities expenses.

We expect general and administrative expenses to increase in absolute dollars as we grow our operations and incur additional expenses associated with operating as a public company. These expenses as a result of operating as a public company include expenses necessary to comply with the rules and regulations applicable to companies listed on a national securities exchange and related compliance and reporting obligations pursuant to the rules and regulations of the SEC, as well as higher expenses for general and director and officer insurance, investor relations and other professional services. We expect our general and administrative expenses to increase in absolute dollars and moderately decline as a percentage of revenue over time if our revenue increases.

### ***Interest Income***

Interest income consists of income earned on our short-term investments included in cash and cash equivalents and marketable securities.

### ***Income Tax Provision***

Income tax provision consists primarily of U.S. federal, state, and foreign income taxes. We maintain a full valuation allowance on our federal and state deferred tax assets as we have concluded that it is not more likely than not that the deferred tax assets will be realized. The Tax Cuts and Jobs Act (“TCJA”) requires taxpayers to capitalize and amortize research and development expenditures under Internal Revenue Code Section 174 for tax years beginning after December 31, 2021. The rule became effective for us during the year ended December 31, 2022 and resulted in the capitalization of research and development costs which was offset by a valuation allowance. We will amortize these costs for tax purposes over 5 years for research and development performed in the U.S., and over 15 years for research and development performed outside of United States. The effect of the TCJA has resulted in us reporting taxable income in 2022 despite incurring a net loss.

We account for uncertain tax positions in accordance with Accounting Standards Codification (“ASC”) 740-10, *Accounting for Uncertainty in Income Taxes*. We recognize the tax effects of an uncertain tax position only if it is more likely than not to be sustained based solely on its technical merits as of the reporting date and only in an amount more likely than not to be sustained upon review by the tax authorities. Interest and penalties related to uncertain tax positions are classified in the consolidated financial statements as income tax expense.

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### Results of Operations

The following table sets forth information derived from our statements of operations for each of the periods presented (in thousands):

|   | Year Ended<br>December 31, |                  |
|---|----------------------------|------------------|
|   | 2022                       | 2023             |
| Revenue                                   | \$ 79,872                  | \$               |
| Cost of revenue <sup>(1)</sup>            | 21,191                     |                  |
| Gross profit                              | 58,681                     |                  |
| Operating expenses                        |                            |                  |
| Research and development <sup>(1)</sup>   | 73,711                     |                  |
| Sales and marketing <sup>(1)</sup>        | 24,407                     |                  |
| General and administrative <sup>(1)</sup> | 20,757                     |                  |
| Total operating expenses                  | 118,875                    |                  |
| Operating loss                            | (60,194)                   |                  |
| Interest income                           | 2,613                      |                  |
| Loss before income taxes                  | (57,581)                   |                  |
| Income tax provision                      | 764                        |                  |
| Net loss                                  | <u><u>\$ (58,345)</u></u>  | <u><u>\$</u></u> |

(1) Includes stock-based compensation expense as follows (in thousands):

|                                | Year Ended<br>December 31, |                  |
|--------------------------------|----------------------------|------------------|
|                                | 2022                       | 2023             |
| Cost of revenue                | \$ 10                      | \$               |
| Research and development       | 11,223                     |                  |
| Sales and marketing            | 10,148                     |                  |
| General and administrative     | 8,854                      |                  |
| Total stock-based compensation | <u><u>\$30,235</u></u>     | <u><u>\$</u></u> |

Stock-based compensation for the year ended December 31, 2022 includes \$17.7 million related to secondary transactions for the quarter ended June 30, 2022. See Note 10 to our consolidated financial statements included elsewhere in this prospectus for additional details on the secondary transactions.

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The following table sets forth our consolidated statements of operations data expressed as a percentage of revenue:

|                            | Year Ended<br>December 31, |      |   |
|----------------------------|----------------------------|------|---|
|                            | 2022                       | 2023 |   |
| Revenue                    | 100%                       |      | % |
| Cost of revenue            | 27                         |      |   |
| Gross profit               | 73                         |      |   |
| Operating expenses         |                            |      |   |
| Research and development   | 92                         |      |   |
| Sales and marketing        | 31                         |      |   |
| General and administrative | 26                         |      |   |
| Total operating expenses   | 149                        |      |   |
| Operating loss             | (75)                       |      |   |
| Interest income            | 3                          |      |   |
| Loss before income taxes   | (72)                       |      |   |
| Income tax provision       | 1                          |      |   |
| Net loss                   | (73)%                      |      | % |

(1) Totals of percentage of revenue may not foot due to rounding.

### Comparison of Years Ended December 31, 2022 and 2023

#### Revenue

|         | Year Ended<br>December 31, |      | Change | % Change |
|---------|----------------------------|------|--------|----------|
|         | 2022                       | 2023 |        |          |
| Revenue | \$79,872                   | \$   | \$     | %        |

(dollars in thousands)

Total revenue increased \$        million, or    %, for the year ended December 31, 2023 compared to the year ended December 31, 2022, primarily due to an increase in product shipments.

#### Cost of Revenue

|                 | Year Ended<br>December 31, |      | Change | % Change |
|-----------------|----------------------------|------|--------|----------|
|                 | 2022                       | 2023 |        |          |
| Cost of revenue | \$21,191                   | \$   | \$     | %        |

(dollars in thousands)

Total cost of revenue increased \$        million, or    %, for the year ended December 31, 2023 compared to the year ended December 31, 2022. The increase was primarily due to an increase in product shipments.

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### *Gross Profit and Gross Margin*

|              | Year Ended<br>December 31, |      | Change | % Change |
|--------------|----------------------------|------|--------|----------|
|              | 2022                       | 2023 |        |          |
|              | (dollars in thousands)     |      |        |          |
| Gross profit | \$58,681                   | \$   | \$     | %        |
| Gross margin | 73%                        | %    |        |          |

Gross profit increased from \$58.7 million for the year ended December 31, 2022 to \$            million for the year ended December 31, 2023. The increase was primarily due to an increase in product shipments.

Gross margin decreased from 73% for the year ended December 31, 2022 to            % for the year ended December 31, 2023. The decrease was primarily due to a \$9.7 million write down of inventory in excess of our sales forecast for a legacy customer system.

### *Research and Development*

|                          | Year Ended<br>December 31, |      | Change | % Change |
|--------------------------|----------------------------|------|--------|----------|
|                          | 2022                       | 2023 |        |          |
|                          | (dollars in thousands)     |      |        |          |
| Research and development | \$73,711                   | \$   | \$     | %        |
| Percentage of revenue    | 92%                        | %    |        |          |

Research and development expense increased \$            million, or            %, for the year ended December 31, 2023 compared to the year ended December 31, 2022. The increase was primarily due to a \$            million increase in personnel-related expenses as a result of increased headcount. This increase was partially offset by \$            million decrease in design hardware, services and tools and a \$            million decrease in stock-based compensation driven by secondary transactions for the year ended December 31, 2022.

### *Sales and Marketing*

|                       | Year Ended<br>December 31, |      | Change | % Change |
|-----------------------|----------------------------|------|--------|----------|
|                       | 2022                       | 2023 |        |          |
|                       | (dollars in thousands)     |      |        |          |
| Sales and marketing   | \$24,407                   | \$   | \$     | %        |
| Percentage of revenue | 31%                        | %    |        |          |

Sales and marketing expense decreased \$            million, or            %, for the year ended December 31, 2023 compared to the year ended December 31, 2022. The decrease was primarily due to a \$            million decrease in stock-based compensation expense driven by secondary transactions for the year ended December 31, 2022. The decrease was partially offset by a \$            million increase in personnel-related expenses as a result of increased headcount.

### *General and Administrative*

|                            | Year Ended<br>December 31, |      | Change | % Change |
|----------------------------|----------------------------|------|--------|----------|
|                            | 2022                       | 2023 |        |          |
|                            | (dollars in thousands)     |      |        |          |
| General and administrative | \$20,757                   | \$   | \$     | %        |
| Percentage of revenue      | 26%                        | %    |        |          |



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General and administrative expense decreased \$            million, or    %, for the year ended December 31, 2023 compared to the year ended December 31, 2022. The decrease was primarily due to a \$            million decrease in stock-based compensation expense driven by secondary transactions for the year ended December 31, 2022. The decrease was partially offset by a \$            million increase in personnel-related expenses as a result of increased headcount and a \$            million increase in professional services spending.

### *Interest Income*

|                 | Year Ended<br>December 31, |      | Change | % Change |
|-----------------|----------------------------|------|--------|----------|
|                 | 2022                       | 2023 |        |          |
| Interest income | \$2,613                    | \$   | \$     | %        |

(dollars in thousands)

Interest income increased \$            million, or    %, for the year ended December 31, 2023 compared to the year ended December 31, 2022. The increase was primarily due to higher interest earned on short-term investments.

### *Income Tax Provision*

|                      | Year Ended<br>December 31, |      | Change | % Change |
|----------------------|----------------------------|------|--------|----------|
|                      | 2022                       | 2023 |        |          |
| Income tax provision | \$764                      | \$   | \$     | %        |

(dollars in thousands)

Income tax provision increased \$            million, or    %, for the year ended December 31, 2023 compared to the year ended December 31, 2022 due to an increase in U.S. taxable income.

### **Non-GAAP Financial Measures**

We use certain non-GAAP financial measures to supplement the performance measures in our consolidated financial statements, which are presented in accordance with GAAP. These non-GAAP financial measures include non-GAAP operating (loss) income and non-GAAP net loss. We use these non-GAAP financial measures for financial and operational decision-making and as a means to assist us in evaluating period-to-period comparisons. By excluding certain items that may not be indicative of our recurring core operating results, we believe that non-GAAP operating (loss) income and non-GAAP net loss provide meaningful supplemental information regarding our performance. Accordingly, we believe these non-GAAP financial measures are useful to investors and others because they allow for additional information with respect to financial measures used by management in its financial and operational decision-making and they may be used by our institutional investors and the analyst community to help them analyze the health of our business. However, there are a number of limitations related to the use of non-GAAP financial measures, and these non-GAAP measures should be considered in addition to, not as a substitute for or in isolation from, our financial results prepared in accordance with GAAP. Other companies, including companies in our industry, may calculate these non-GAAP financial measures differently or not at all, which reduces their usefulness as comparative measures.

### *Non-GAAP Operating (Loss) Income*

We define non-GAAP operating (loss) income as operating loss presented in accordance with GAAP, adjusted to exclude stock-based compensation expenses. We have presented non-GAAP operating (loss) income because we consider non-GAAP operating (loss) income to be a useful metric for investors and other users of our financial information in evaluating our operating performance because it excludes the impact of stock-based compensation, a non-cash charge that can vary from period to period for reasons that are unrelated to our core operating performance. This metric also provides investors and other users of our financial information with an additional tool to compare business performance across companies and periods, while eliminating the effects of items that may vary for different companies for reasons unrelated to core operating performance.

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A reconciliation of our GAAP operating loss, the most directly comparable GAAP financial measure, to non-GAAP operating loss is presented below:

|                                  | Year Ended December 31, |           |
|----------------------------------|-------------------------|-----------|
|                                  | 2022                    | 2023      |
|                                  | (in thousands)          |           |
| <b>GAAP operating loss</b>       | \$ (60,194)             | \$        |
| Stock-based compensation expense | 30,235                  |           |
| <b>Non-GAAP operating loss</b>   | <u>\$ (29,959)</u>      | <u>\$</u> |

### **Non-GAAP Net Loss**

We monitor non-GAAP net loss for planning and performance measurement purposes. We define non-GAAP net loss as net loss reported on our consolidated statements of operations, excluding the impact of stock-based compensation expenses and the related tax effect adjustment to the provision for income taxes. We have presented non-GAAP net loss because we believe that the exclusion of these charges allows for a more relevant comparison of our results of operations to other companies in our industry and facilitates period-to-period comparisons as it eliminates the effect of certain factors unrelated to our overall operating performance. Our calculation of non-GAAP net loss does not currently include the tax effects of the stock-based compensation expense adjustment because such tax effects have not been material to date.

A reconciliation of our GAAP net loss, the most directly comparable GAAP financial measure, to our non-GAAP net loss is presented below:

|                                     | Year Ended December 31, |           |
|-------------------------------------|-------------------------|-----------|
|                                     | 2022                    | 2023      |
|                                     | (in thousands)          |           |
| <b>GAAP net loss</b>                | \$ (58,345)             | \$        |
| Stock-based compensation expense(1) | 30,235                  |           |
| <b>Non-GAAP net loss</b>            | <u>\$ (28,110)</u>      | <u>\$</u> |

- (1) Non-GAAP net loss does not include the tax effects of the stock-based compensation expense adjustment because such tax effects were not material during the periods presented.

### **Customer Warrant**

In October 2022, we issued a warrant to Amazon NV Investment Holdings LLC (“Holder”) to purchase an aggregate of up to 2,968,460 shares of common stock at an exercise price of \$10.17 per share (the “Customer Warrant”). The exercise period of the Customer Warrant is through the seventh anniversary of the issue date. Upon issuance of the Customer Warrant, 29,688 of the shares issuable vested and became exercisable immediately. The remainder of the shares issuable will vest and become exercisable based upon the specified tranches of global payments related to the purchase of a certain amount of each of our Aries, Taurus, and Leo products, up to an aggregate of \$400.0 million, by Holder, Amazon.com, Inc. and/or its affiliates (collectively, “Amazon”), or its authorized buyers.

In October 2023, we amended the warrant agreement and issued an additional warrant to purchase an aggregate of up to 1,663,890 shares of common stock at an exercise price of \$10.17 per share (the “2023 Warrant”) with the same exercise period as the Customer Warrant originally issued. The shares issuable under the 2023 Warrant vest and become exercisable based upon the specified tranches of global payments of a future product development initiative, up to an additional \$250.0 million in aggregate global payments.

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The Customer Warrant and the 2023 Warrant are subject to performance-based vesting conditions and are accounted for as consideration payable to a customer as we did not receive a distinct good or service in exchange for the warrants. When we determine whether and which of the performance-based vesting conditions (the specified tranches of global payments) underlying the warrants are probable of being achieved, we recognize the associated grant date fair value of the warrants as a reduction of revenue for each sales transaction in proportion to total expected cumulative sales volume resulting in achievement of the vesting conditions.

### Quarterly Results of Operations

The following table sets forth selected unaudited quarterly consolidated statements of operations data for each of the seven quarters ended September 30, 2023. The information for each of these quarters has been prepared on the same basis as our audited consolidated financial statements and reflect, in the opinion of management, all adjustments, consisting of normal, recurring adjustments that are necessary for a fair statement of this information. These quarterly operating results are not necessarily indicative of the results that may be expected for a full year or any other fiscal period. This information should be read in conjunction with our audited consolidated financial statements and related notes included elsewhere in the prospectus.

|   | Three Months Ended |                  |                  |                  |                   |                  |                  |
|---|--------------------|------------------|------------------|------------------|-------------------|------------------|------------------|
|   | March 31,<br>2022  | June 30,<br>2022 | Sep. 30,<br>2022 | Dec. 31,<br>2022 | March 31,<br>2023 | June 30,<br>2023 | Sep. 30,<br>2023 |
|   | (in thousands)     |                  |                  |                  |                   |                  |                  |
| Revenue                                   | \$ 15,018          | \$ 21,396        | \$23,103         | \$ 20,355        | \$ 17,664         | \$ 10,688        | \$36,928         |
| Cost of revenue <sup>(1)</sup>            | 4,208              | 5,359            | 5,906            | 5,718            | 13,406            | 2,249            | 8,823            |
| Gross profit                              | 10,810             | 16,037           | 17,197           | 14,637           | 4,258             | 8,439            | 28,105           |
| Operating expenses                        |                    |                  |                  |                  |                   |                  |                  |
| Research and development <sup>(1)</sup>   | 9,275              | 22,431           | 14,240           | 27,765           | 15,267            | 17,860           | 20,626           |
| Sales and marketing <sup>(1)</sup>        | 3,039              | 10,962           | 5,356            | 5,050            | 4,393             | 5,097            | 5,507            |
| General and administrative <sup>(1)</sup> | 2,681              | 10,716           | 3,700            | 3,660            | 3,525             | 3,095            | 3,949            |
| Total operating expenses                  | 14,995             | 44,109           | 23,296           | 36,475           | 23,185            | 26,052           | 30,082           |
| Operating loss                            | (4,185)            | (28,072)         | (6,099)          | (21,838)         | (18,927)          | (17,613)         | (1,977)          |
| Interest income                           | —                  | 215              | 901              | 1,497            | 1,596             | 1,555            | 1,724            |
| Loss before income taxes                  | (4,185)            | (27,857)         | (5,198)          | (20,341)         | (17,331)          | (16,058)         | (253)            |
| Income tax provision (benefit)            | 1,387              | (523)            | 144              | (244)            | 123               | 3,946            | 2,871            |
| Net loss                                  | \$ (5,572)         | \$ (27,334)      | \$ (5,342)       | \$ (20,097)      | \$ (17,454)       | \$ (20,004)      | \$ (3,124)       |

(1) Includes stock-based compensation expense as follows:

|  | Three Months Ended |                  |                  |                  |                   |                  |                  |
|--|--------------------|------------------|------------------|------------------|-------------------|------------------|------------------|
|  | March 31,<br>2022  | June 30,<br>2022 | Sep. 30,<br>2022 | Dec. 31,<br>2022 | March 31,<br>2023 | June 30,<br>2023 | Sep. 30,<br>2023 |
|  | (in thousands)     |                  |                  |                  |                   |                  |                  |
| Cost of revenue                        | \$ 4               | \$ 2             | \$ 3             | \$ 1             | \$ 5              | \$ 2             | \$ 9             |
| Research and development               | 1,836              | 5,779            | 1,857            | 1,751            | 1,679             | 1,672            | 1,706            |
| Sales and marketing                    | 619                | 7,450            | 1,089            | 990              | 1                 | 694              | 691              |
| General and administrative             | 198                | 8,006            | 341              | 309              | 312               | 304              | 305              |
| Total stock-based compensation expense | \$ 2,657           | \$ 21,237        | \$ 3,290         | \$ 3,051         | \$ 1,997          | \$ 2,672         | \$ 2,711         |

Stock-based compensation for the year ended December 31, 2022, includes \$17.7 million related to secondary transactions for the quarter ended June 30, 2022. See Note 10 of the Notes to Consolidated Financial Statements included elsewhere in this prospectus for additional details on the secondary transactions.

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The following table summarizes our quarterly results of operations as a percentage of revenue for each of the periods presented:

|                                | Three Months Ended                          |                  |                  |                  |                   |                  |                  |
|--------------------------------|---|------------------|------------------|------------------|-------------------|------------------|------------------|
|                                | March 31,<br>2022                           | June 30,<br>2022 | Sep. 30,<br>2022 | Dec. 31,<br>2022 | March 31,<br>2023 | June 30,<br>2023 | Sep. 30,<br>2023 |
|                                | (as a percentage of revenue) <sup>(1)</sup> |                  |                  |                  |                   |                  |                  |
| Revenue                        | 100%  | 100%             | 100%             | 100%             | 100%              | 100%             | 100%             |
| Cost of revenue                | 28  | 25               | 26               | 28               | 76                | 21               | 24               |
| Gross profit                   | 72%   | 75%              | 74%              | 72%              | 24%               | 79%              | 76%              |
| Operating expenses             |   |                  |                  |                  |                   |                  |                  |
| Research and development       | 62  | 105              | 62               | 136              | 86                | 167              | 56               |
| Sales and marketing            | 20  | 51               | 23               | 25               | 25                | 48               | 15               |
| General and administrative     | 18  | 50               | 16               | 18               | 20                | 29               | 11               |
| Total operating expenses       | 100   | 206              | 101              | 179              | 131               | 244              | 81               |
| Operating loss                 | (28)  | (131)            | (26)             | (107)            | (107)             | (165)            | (5)              |
| Interest income                | —   | 1                | 4                | 7                | 9                 | 15               | 5                |
| Loss before income taxes       | (28)  | (130)            | (22)             | (100)            | (98)              | (150)            | (1)              |
| Income tax provision (benefit) | 9   | (2)              | 1                | (1)              | 1                 | 37               | 8                |
| Net loss                       | (37)%                                       | (128)%           | (23)%            | (99)%            | (99)%             | (187)%           | (8)%             |

(1) Totals of percentage of revenue may not foot due to rounding.

### Quarterly Trends

#### *Revenue*

Our quarterly revenue increased sequentially through the third quarter of 2022 and decreased sequentially in the fourth quarter of 2022 through the second quarter of 2023 and increased in the third quarter of 2023. The increase in revenue through the third quarter of 2022 was driven primarily by increases in total product sales from both expansion within our existing customer base and sales to new customers. Starting in the fourth quarter of 2022, we experienced sequential decreases in revenue largely due to excess inventory accumulated across many of our customer's supply chains. In 2021 and first half of 2022, the overall semiconductor industry experienced a shortage of supply and extended delivery times. As a result of this supply shortage, many of our customers accumulated higher levels of inventory than normal in order to help minimize potential negative impacts from supply shortages. In the second half of 2022, the industry supply shortages started to improve, and in response, some of our customers significantly decreased their ordering levels to lower their inventory balances resulting in lower product sales revenue in the fourth quarter of 2022 through the second quarter of 2023. The increase in the third quarter of 2023 was driven primarily by an increase in product shipments.

#### *Cost of Revenue and Gross Profit*

Cost of revenue generally increased consistent with the increase in revenue through the third quarter of 2022, and then decreased consistent with the decrease in revenue in the fourth quarter of 2022. In the first quarter of 2023, the large increase in cost of revenue was driven by a \$9.7 million write down of inventory in excess of our sales forecast for a legacy customer system. In the second quarter of 2023, cost of revenue continued to decrease consistent with the decrease in revenue. In the third quarter of 2023, cost of revenue increased consistent with the increase in revenue.

Our gross margin fluctuated on a quarterly basis in each of the quarters in 2022 largely due to changes in the revenue mix from quarter to quarter and the fluctuation in revenue earned and cost of revenue incurred, as discussed above. In the first quarter of 2023, the large decrease in gross margins was driven by a write down of

inventory in excess of our sales forecast for a legacy customer system. Beginning in the second quarter of 2023, gross margins returned to more normalized levels.

### ***Operating Expenses***

Our operating expenses fluctuated on a quarterly basis primarily due to the timing of research and development activities and stock-based compensation related to secondary sales.

Our research and development expenses increased sequentially for all periods presented, except for the third quarter of 2022 and the first quarter of 2023. For all quarters presented, employee costs such as salaries, benefits, and bonuses increased sequentially due to increases in headcount. In addition, the increase in research and development expenses in the second quarter of 2022 and corresponding decrease in the third quarter of 2022 was due to \$3.9 million of higher stock-based compensation related to secondary sales in the second quarter of 2022. The increase in the fourth quarter of 2022 and corresponding decrease in the first quarter of 2023 was due to higher engineering mask and software license costs in the fourth quarter of 2022.

Our sales and marketing expenses increased in the second quarter of 2022, decreased in the third and fourth quarters of 2022 and in the first quarter of 2023 and increased in the second quarter of 2023. The increase in the second quarter of 2022 and corresponding decrease in the third quarter of 2022 was due primarily to \$6.4 million of higher stock-based compensation related to secondary sales in the second quarter of 2022. The decrease in the first quarter of 2023 and corresponding increase in the second quarter of 2023 was due to lower stock-based compensation recognized in the first quarter of 2023 due to forfeitures of stock options, which reduced expenses in the first quarter of 2023. The fourth quarter of 2022 and the second quarter of 2023 did not have significant forfeiture of stock options. The increase in the third quarter of 2023 was due primarily to salary expense due to an increase in headcount.

Our general and administrative expenses increased in the second quarter of 2022 and decreased in each subsequent quarter in 2022 and the first half of 2023. The increase in the second quarter of 2022 and the corresponding decrease in the third quarter of 2022 was due primarily to \$7.8 million of higher stock-based compensation related to secondary sales in the second quarter of 2022. The decrease in the fourth quarter of 2022 was primarily related to lower employee costs such as salaries, benefits, and bonuses due to lower headcount. The decrease in the first quarter of 2023 was primarily related to general office related expenses. The decrease in the second quarter of 2023 was primarily related to lower professional services fees. The increase in the third quarter of 2023 was primarily related to higher personnel-related expenses as a result of increased headcount and higher professional services spending.

### ***Income Tax Provision***

Our income tax provision is calculated by applying our estimated full-year effective tax rate to year-to-date taxable income or loss. The quarterly fluctuations in our income tax provision are due primarily to changes in our year-to-date taxable income or loss as well as changes in our quarterly estimates of our full-year effective tax rate. The quarterly effective income tax rate differs from the statutory rate in 2022 and 2023 primarily due to nondeductible stock-based compensation and the change in the valuation allowance.

The TCJA requires taxpayers to capitalize and amortize research and development expenditures under Internal Revenue Code Section 174 for tax years beginning after December 31, 2021. The rule became effective for us during the year ended December 31, 2022 and resulted in the capitalization of research and development costs which was offset by a valuation allowance. We will amortize these costs for tax purposes over 5 years for research and development performed in the U.S., and over 15 years for research and development performed outside of the U.S. The effect of the TCJA has resulted in us reporting taxable income in 2022 despite incurring a net loss.

## Quarterly Trends in Non-GAAP Financial Measures

### Non-GAAP Operating (Loss) Income and Non-GAAP Net Loss

The following table sets forth our non-GAAP operating (loss) income and non-GAAP net loss, non-GAAP financial measure for each of the periods presented. See the section titled “—Non-GAAP Financial Measures” for the details of how we calculate non-GAAP net loss:

|   | Three Months Ended |                   |                   |                    |                    |                    |                  |
|---|--------------------|-------------------|-------------------|--------------------|--------------------|--------------------|------------------|
|   | March 31,<br>2022  | June 30,<br>2022  | Sep. 30,<br>2022  | Dec. 31,<br>2022   | March 31,<br>2023  | June 30,<br>2023   | Sep. 30,<br>2023 |
|   | (in thousands)     |                   |                   |                    |                    |                    |                  |
| <b>GAAP operating loss</b>                      | \$ (4,185)         | \$ (28,072)       | \$ (6,099)        | \$ (21,838)        | \$ (18,927)        | \$ (17,613)        | \$ (1,977)       |
| Stock-based compensation expense                | 2,657              | 21,237            | 3,290             | 3,051              | 1,997              | 2,672              | 2,711            |
| <b>Non-GAAP operating (loss) income</b>         | <u>\$ (1,528)</u>  | <u>\$ (6,835)</u> | <u>\$ (2,809)</u> | <u>\$ (18,787)</u> | <u>\$ (16,930)</u> | <u>\$ (14,941)</u> | <u>\$ 734</u>    |
|   | (in thousands)     |                   |                   |                    |                    |                    |                  |
|   | March 31,<br>2022  | June 30,<br>2022  | Sep. 30,<br>2022  | Dec. 31,<br>2022   | March 31,<br>2023  | June 30,<br>2023   | Sep. 30,<br>2023 |
| <b>GAAP net loss</b>                            | \$ (5,572)         | \$ (27,334)       | \$ (5,342)        | \$ (20,097)        | \$ (17,454)        | \$ (20,004)        | \$ (3,124)       |
| Stock-based compensation expense <sup>(1)</sup> | 2,657              | 21,237            | 3,290             | 3,051              | 1,997              | 2,672              | 2,711            |
| <b>Non-GAAP net loss</b>                        | <u>\$ (2,915)</u>  | <u>\$ (6,097)</u> | <u>\$ (2,052)</u> | <u>\$ (17,046)</u> | <u>\$ (15,457)</u> | <u>\$ (17,332)</u> | <u>\$ (413)</u>  |

- (1) Non-GAAP net loss does not include the tax effects of the stock-based compensation expense adjustment because such tax effects were not material during the periods presented.

## Liquidity and Capital Resources

Since our inception, we have financed our operations primarily through proceeds from issuance of our redeemable convertible preferred stock and cash generated from the sale of our products. As of December 31, 2023, our principal sources of liquidity were cash, cash equivalents, and marketable securities of \$ million and working capital of \$ million. Cash and cash equivalents are comprised of cash held in sweep accounts, checking accounts, money market funds, and commercial paper. Marketable securities are comprised primarily of commercial paper, U.S. treasury and agency securities, corporate debt securities, foreign government bonds, and asset-backed securities. Our principal use of cash is to fund our operations and invest in research and development to support our growth.

We have generated significant losses from operations and negative cash flows from operating activities in the past as reflected in our accumulated deficit of \$ million as of December 31, 2023. Since our inception, we have financed our operations primarily through proceeds from the issuance of our redeemable convertible preferred stock and cash generated from the sale of our products. We believe that our current cash, cash equivalents, and marketable securities will be sufficient to fund our operations for at least the next 12 months. Our future capital requirements, however, will depend on many factors, including our growth rate, the timing and extent of our sales and marketing and research and development expenditures, the continuing market acceptance of our products, and the use of cash to fund potential mergers or acquisitions. In the event that additional financing is required from outside sources, we may seek to raise additional funds through equity, equity-linked arrangements, and debt. If we are unable to raise additional capital when desired and at reasonable rates, our business, results of operations, and financial condition could be adversely affected.

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### Cash Flows

The following table summarizes our cash flows for the periods presented:

|   | Year Ended<br>December 31, |      |
|---|----------------------------|------|
|   | 2022                       | 2023 |
|   | (in thousands)             |      |
| Net cash used in operating activities     | \$ (35,898)                | \$   |
| Net cash used in investing activities     | \$ (90,590)                | \$   |
| Net cash provided by financing activities | \$151,668                  | \$   |

#### *Operating Activities*

Our largest source of operating cash is cash collection from sales of our products to our customers. Our primary uses of cash from operating activities are for personnel expenses, hardware and design expenses, and software expenses. In the last several years, we have incurred negative cash flows from operating activities and have supplemented working capital requirements through net proceeds from the sale of redeemable convertible preferred stock.

Net cash used in operating activities for the year ended December 31, 2023 of \$ million included net loss of \$ million, and a \$ million increase in . These cash flow uses were partially offset by non-cash charges of \$ million primarily consisting of stock-based compensation, depreciation and amortization, and inventory write-downs, a \$ million increase in mostly related to . Changes in operating assets and liabilities reflected .

Net cash used in operating activities for the year ended December 31, 2022 of \$35.9 million included net loss of \$58.3 million, a \$6.0 million increase in accounts receivable due to higher product sales and timing of customer payments, a \$19.4 million increase in inventory, a \$1.3 million increase in prepaid expenses and other assets primarily related to prepayments for software licenses, and a \$1.3 million decrease in operating lease liability. These cash flow uses were partially offset by non-cash charges of \$32.4 million primarily consisting of stock-based compensation, depreciation and amortization, and non-cash operating lease expense, a \$16.0 million increase in accrued expenses and other liabilities mostly related to higher accrued pre-production engineering mask costs, higher accrued software licenses and timing of payments, and a \$2.1 million increase in accounts payable related to higher operating expenses and timing of payments.

#### *Investing Activities*

Net cash provided by investing activities for the year ended December 31, 2023 of \$ million was the result of \$ million in proceeds from sales of marketable securities and \$ million in maturities of marketable securities, offset by \$ million in purchases of marketable securities and \$ million in purchases of property and equipment.

Net cash used in investing activities for the year ended December 31, 2022 of \$90.6 million was the result of \$88.7 million in purchases of marketable securities and \$3.9 million in purchases of property and equipment, partially offset by \$1.0 million in maturities of marketable securities and \$1.0 million in proceeds from sales of marketable securities.

#### *Financing Activities*

Net cash provided by financing activities for the year ended December 31, 2023 of \$ million was the result of \$ million in proceeds from stock option exercises, partially offset by \$ million from the repurchase of common stock.

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Net cash provided by financing activities for the year ended December 31, 2022 of \$151.7 million was the result of \$149.9 million in proceeds from the issuance of Series D redeemable convertible preferred stock, \$2.1 million in proceeds from stock option exercises, partially offset by \$0.3 million from the repurchase of common stock.

### **Contractual Obligations and Commitments**

*Operating lease commitments.* Our operating lease commitments primarily include corporate offices. As of December 31, 2022, we had fixed lease payment obligations of \$2.0 million, with \$1.6 million to be paid within 12 months and the remainder thereafter. For additional discussion on our operating leases, see Note 5 to our audited consolidated financial statements included elsewhere in this prospectus.

*Purchase commitments.* Our purchase commitments are primarily related to software licenses and engineering services. As of December 31, 2022, we had purchase commitments of \$14.6 million, with \$6.1 million to be paid within 12 months and the remainder thereafter.

### **Indemnification Agreements**

In the ordinary course of business, we enter into agreements of varying scope and terms pursuant to which we agree to indemnify customers, vendors, lessors, business partners, and other parties with respect to certain matters, including, but not limited to, losses arising out of the breach of such agreements, services to be provided by us, or from intellectual property infringement claims made by third parties. In addition, we have entered into indemnification agreements with our directors and certain officers and employees that will require us, among other things, to indemnify them against certain liabilities that may arise by reason of their status or service as directors, officers, or employees. No demands have been made upon us to provide indemnification under such agreements, and there are no claims that we are aware of that could have a material effect on our consolidated balance sheets, consolidated statements of operations and comprehensive loss, or consolidated statements of cash flows.

### **Quantitative and Qualitative Disclosures About Market Risk**

We are exposed to market risks in the ordinary course of our business. Market risk represents the risk of loss that may impact our financial position due to adverse changes in financial market prices and rates. Our market risk exposure is primarily the result of fluctuations in interest rates and foreign currency exchange rates.

#### ***Interest Rate Risk***

As of December 31, 2022, we had cash and cash equivalents of \$76.1 million and marketable securities of \$87.1 million, which consisted of cash held in sweep accounts, checking accounts, money market funds, U.S. treasury and agency securities, commercial paper, corporate debt securities, foreign government bonds, and asset-backed securities. The cash and cash equivalents are held primarily for working capital purposes. Such interest earning instruments carry a degree of interest rate risk. To date, fluctuations in interest income have not been significant. The primary objective of our investment activities is to preserve principal while maximizing income without significantly increasing risk. We do not enter into investments for trading or speculative purposes and have not used any derivative financial instruments to manage our interest rate risk exposure. Due to the short-term nature of our investments, we have not been exposed to, nor do we anticipate being exposed to, material risks due to changes in interest rates. A hypothetical 10% change in interest rates during any of the periods presented would not have had a material impact on our consolidated financial statements.

#### ***Foreign Currency Exchange Risk***

Our reporting currency and the functional currency of our wholly owned foreign subsidiaries in Taiwan and Canada is the U.S. dollar. In January 2023, we formed a wholly owned subsidiary in Israel, and its functional



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currency is also the U.S. dollar. All of our sales and operating expenses are transacted in U.S. dollars, and therefore our revenue and expenses are not currently subject to significant foreign currency risk. To date, we have not entered into any hedging arrangements with respect to foreign currency risk or other derivative financial instruments, although we may choose to do so in the future. We do not believe that a hypothetical 10% increase or decrease in the relative value of the U.S. dollar to other currencies would have a material effect on our operating results.

### **Critical Accounting Estimates**

We prepare our financial statements in conformity with GAAP. The preparation of financial statements in conformity with GAAP required certain estimates and assumptions to be made that may affect our consolidated financial statements. Accounting policies that have a significant impact on our results are described in Note 1 to our consolidated financial statements included elsewhere in this prospectus. The accounting policies discussed in this section are those that we consider to be the most critical. We consider an accounting policy to be critical if the policy is subject to a material level of judgment and if changes in those judgments are reasonably likely to materially impact our results.

We base our estimates and judgments on reasonably available information. Our estimates and assumptions may affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. Actual results may differ from those estimates and such differences may be material to the financial statements.

We continue to monitor and assess our critical estimates in light of developments, and as new events occur and additional information is obtained, our estimates may change materially in future periods.

### ***Revenue Recognition***

We recognize revenue upon transfer of control of promised goods and services in an amount that reflects the consideration it expects to receive in exchange for those goods and services. Under Accounting Standards Codification 606, *Revenue from Contracts with Customers* (“ASC 606”), we apply the following five step approach: (1) identify the contract with a customer, (2) identify the performance obligations in the contract, (3) determine the transaction price, (4) allocate the transaction price to the performance obligations in the contract, and (5) recognize revenue when, or as, a performance obligation is satisfied.

Where an arrangement includes multiple performance obligations, the transaction price is allocated to each performance obligation on a relative standalone selling price (“SSP”) basis. We determine the SSP based on an observable standalone selling price when it is available, as well as other factors, including the price charged to customers and our overall pricing objectives, while maximizing observable inputs.

Accounts receivable are recorded when the customer has been billed or the right to consideration is unconditional. We record deferred revenue when we have received consideration, or an amount of consideration is due from the customer, and we have a future obligation to transfer products or services. From time to time, we have contracts with initial terms that include performance obligations that extend beyond one year.

We transact with customers primarily pursuant to standard purchase orders for delivery of products and do not allow customers to cancel or change purchase orders within limited notice periods. We recognize product sales when control transfers to the customer, generally at the time of product shipment from its facilities, in an amount that reflects the consideration we expect to receive in exchange for those goods, net of estimated sales returns, distributor price adjustments (“DPA”), rebates, and other customer incentives.

We sell the majority of our products to distributors at a fixed list price. Distributors are authorized to resell our products to customers at a range of individually negotiated price points based on a variety of factors,

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including customer, product, quantity, geography, and competitive differentiation. The majority of our distributors' resales are priced at a discount from list price (the original purchase price). After the resale transaction is completed, we issue credit memos to the distributor for the price adjustments.

Sales to most distributors are made under programs common in the semiconductor industry whereby distributors receive DPAs to meet individual competitive opportunities. These programs may include credits granted to distributors or price protection credits when our standard published prices are lowered from the price the distributor paid for product still in its inventory.

In determining the transaction price, DPAs are considered variable consideration that reduce the amount of revenue recognized. Our policy is to estimate such price adjustments based on our historical prices and contractual terms using the expected value method. To date, actual DPAs have been materially consistent with the provisions we have made, based on our historical estimates. However, because of the inherent nature of estimates, there is always a risk that there could be significant differences between actual amounts and our estimates. We also consider the constraint on estimates of variable consideration when estimating the total transaction price.

Our customer programs involve volume-based rebates, which are designed to serve as sales incentives to resellers of our products in various target markets. We account for rebates as a reduction to revenue and accrue for potential rebates based on the amount we expect to be claimed by customers.

Revenue is recognized net of taxes collected, which are subsequently remitted to governmental authorities. Consideration payable includes cash amounts that we pay, or expect to pay, to a customer, and is included in accrued expenses and other current liabilities. Consideration payable also includes credits or other items. We account for consideration payable to a customer as a reduction of the transaction price, and therefore, of revenue, unless the payment to the customer is in exchange for a distinct good or service that the customer transfers to us.

### ***Stock-Based Compensation***

We measure and recognize our stock-based compensation expense for stock options based on the estimated fair value of the award. We use the Black-Scholes-Merton pricing model to determine the grant date fair value of stock options. For awards with service conditions only, stock-based compensation expense is recognized on a straight-line basis over the requisite service period of the awards, which is generally the vesting period. For awards with both service and performance conditions, stock-based compensation expense is recognized using the accelerated-attribution method over the estimated vesting period of the awards if and when we conclude that it is probable that the performance condition will be achieved. We reassess the probability of vesting at each reporting period for awards with performance conditions and adjust compensation expense based on its probability assessment. We account for forfeitures as they occur.

We measure and recognize our stock-based compensation expense for RSUs based on the estimated fair value of the underlying common stock on the date of grant. Our RSUs vest upon the satisfaction of both service and performance conditions. We recognize compensation expense for awards with both service and performance conditions on a straight-line basis over the requisite service period for each separately vesting portion of the award and, for awards with performance conditions, when it concludes it is probable that the performance condition will be achieved. We reassess the probability of vesting at each balance sheet date and adjust compensation expense based on the probability assessment.

We continue to use judgment in evaluating the expected volatility and expected term utilized in our stock-based compensation expense calculation on a prospective basis. As we continue to accumulate additional data related to our common stock, we may refine our estimates of expected volatility and expected term, which could materially impact our future stock-based compensation expense.

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As of December 31, 2023, total unrecognized compensation cost related to unvested RSUs was \$        million, which is expected to be recognized over a weighted-average period of        years. In addition, if the listing and public trading of our common stock had occurred on December 31, 2023, \$        million of unrecognized stock-based compensation as of that date would have been recognized for all RSUs that had fully or partially satisfied the service-based vesting condition on that date.

### ***Common Stock Valuations***

The fair value of the common stock underlying our stock-based awards has historically been determined by our board of directors, with input from management and contemporaneous third-party valuations. We believe that our board of directors has the relevant experience and expertise to determine the fair value of our common stock. Given the absence of a public trading market of our common stock, and in accordance with the American Institute of Certified Public Accountants Practice Aid, *Valuation of Privately-Held Company Equity Securities Issued as Compensation*, our board of directors exercised reasonable judgment and considered numerous objective and subjective factors to determine the best estimate of the fair value of our common stock at each grant date. These factors include:

- the results of contemporaneous valuations performed at periodic intervals by a third-party valuation firm;
- the prices, rights, preferences, and privileges of our redeemable convertible preferred stock relative to those of our common stock;
- the prices of our redeemable convertible preferred stock and common stock sold to investors in arms-length transactions;
- our actual operating and financial performance and estimated trends and prospects for our future performance;
- our stage of development;
- the likelihood of achieving a liquidity event, such as an initial public offering, direct listing, or sale of our company, given prevailing market conditions;
- the lack of marketability involving securities in a private company;
- the market performance of comparable publicly traded companies; and
- U.S. and global capital market conditions.

In valuing our common stock, the fair value of our business was determined using various valuation methods, including combinations of the income approach and the market approach with input from management. The income approach involves applying an appropriate risk-adjusted discount rate to projected cash flows based on forecasted revenue and costs. The market approach estimates value based on a comparison of the subject company to comparable public companies in a similar line of business. From the comparable companies, a representative market value multiple was determined, which was applied to our operating results to estimate the enterprise value of our company.

Once the enterprise value was determined under the market approach, we derived the equity value of our company and used a hybrid method that considered both an option pricing model (“OPM”) and the probability weighted expected return method (“PWERM”) to allocate that value among the various classes of securities to arrive at the fair value of the common stock. The OPM is based on the Black-Scholes-Merton option pricing model, which allows for the identification for a range of possible future outcomes, each with an associated probability. The OPM is appropriate to use when the range of possible future outcomes is difficult to predict and thus creates highly speculative forecasts. PWERM involves a forward-looking analysis of the possible future outcomes of the enterprise including an IPO as well as non-IPO market-based outcomes. After the equity value is

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determined and allocated to the various classes of shares, a discount for lack of marketability (“DLOM”) is applied to arrive at the fair value of ordinary shares. A DLOM is applied based on the theory that as an owner of a private company stock, the stockholder has limited opportunities to sell this stock and any such sale would involve significant transaction costs, thereby reducing overall fair market value.

In addition, we also considered any secondary transactions involving our capital stock. In our evaluation of those transactions, we considered the facts and circumstances of each transaction to determine the extent to which they represented a fair value exchange. Factors considered include transaction volume, timing, whether the transactions occurred among unrelated parties, and whether the transactions involved investors with access to our financial information.

Application of these approaches involves the use of estimates, judgment, and assumptions that are highly complex and subjective, such as those regarding our expected future revenue, expenses, and future cash flows, discount rates, market multiples, the selection of comparable companies, and the probability of possible future events. Changes in any or all of these estimates and assumptions or the relationships between those assumptions impact our valuations as of each valuation date and may have a material impact on the valuation of our common stock.

For valuations after the completion of this offering, our board of directors will determine the fair value of each share of underlying common stock based on the closing price of our common stock as reported on the date of grant. Future expense amounts for any particular period could be affected by changes in our assumptions or market conditions.

### ***Recent Accounting Pronouncements***

For more information, see Note 1 to our consolidated financial statements included elsewhere in this prospectus.

## BUSINESS

### Overview

Our mission is to innovate, design, and deliver semiconductor-based connectivity solutions that are purpose-built to unleash the full potential of cloud and AI infrastructure.

Building on years of experience with a singular focus on addressing connectivity challenges in data-centric systems, we have developed and deployed our leading Intelligent Connectivity Platform built from the ground up for cloud and AI infrastructure. Our Intelligent Connectivity Platform comprises:

- i) Semiconductor-based, high-speed, mixed-signal connectivity products that integrate a matrix of microcontrollers and sensors; and
- ii) COSMOS, our software suite which is embedded in our connectivity products and integrated into our customers' systems.

Our Intelligent Connectivity Platform provides our customers with the ability to deploy and operate high performance cloud and AI infrastructure at scale, addressing an increasingly diverse set of requirements. We provide our connectivity products in various form factors including ICs, boards, and modules.

AI touches many aspects of our daily lives today, from vision processing for autonomous vehicles to speech recognition systems for chatbots. The shift towards the cloud from on-premise computing is rapidly accelerating due to increasing demand for compute-intensive AI workloads that are truly optimized when deployed at cloud scale.

To address the performance and scalability requirements of AI and other compute-intensive applications, hyperscalers have adopted heterogeneous, "accelerated computing" system architectures within their data centers, which include GPUs and other AI accelerators, such as TPUs, AI processors, custom ASICs, and FPGAs, to target specific workloads. These new system architectures require a connectivity backbone that is significantly faster with lower latency, is robust, and supports cloud scale deployment.

Our patented software-defined platform approach delivers critical connectivity performance, enables flexibility and customization, and supports observability and predictive analytics. This approach efficiently addresses the data, network, and memory bottlenecks, scalability, and other unique infrastructure requirements of our hyperscaler and system OEM customers.

Based on trusted relationships with the leading hyperscalers and collaboration with data center infrastructure suppliers such as NVIDIA, Advanced Micro Devices, Intel, and many others, our platform is designed to meet our customers' unique cloud scale requirements. Our COSMOS software suite is foundational to our Intelligent Connectivity Platform and is designed to enable our customers to seamlessly configure, manage, monitor, optimize, troubleshoot, and customize functions in our IC, board, and module products.

We believe that our Intelligent Connectivity Platform addresses a large and growing TAM of \$17.2 billion. Specifically, our technology and product portfolios target the global wired connectivity market, including PCIe and Ethernet, and the CXL memory connectivity controller market. We believe that our TAM will grow to \$27.4 billion by 2027, and we expect to address an increasing share of this TAM as we expand the breadth and depth of our product portfolio. See the section titled "Business—Our Market Opportunity" for additional information on how we calculate our TAM.

Today, our connectivity solutions are at the heart of major AI platforms deployed worldwide featuring both commercially available GPUs and proprietary AI accelerators. In the last four years, we have successfully introduced three revenue-generating product families across multiple form factors including ICs, boards, and modules, shipping millions of devices across all of the major hyperscalers. Our products, which include Aries PCIe®/CXL™ Smart DSP Retimers, Taurus Ethernet Smart Cable Modules™, and Leo CXL Memory Connectivity Controllers, leverage our ICs that are built upon industry standard connectivity protocols such as PCIe,

Ethernet, and CXL to address the growing demand for purpose-built connectivity solutions that solve critical data, network, and memory bottlenecks inherent in cloud and AI infrastructure.

Since our inception, we have created and commercialized first-to-market PCIe, Ethernet, and CXL products, and, with more than 300 design wins, we have become a trusted partner and a proven supplier to our hyperscaler and system OEM customers. We have experienced strong growth since our founding in October 2017, and particularly since the commercial launch of Aries in 2020. Our revenue grew from \$79.9 million in 2022 to \$      million in 2023, driven by a significant increase in demand for our products. We have made significant investments in the design and development of new products and platform enhancements, and, as a result, we have not yet achieved profitability on an annual basis. We incurred net losses of \$58.3 million in 2022 and \$      million in 2023.

## **Industry Background**

### ***The Proliferation of Cloud Computing***

Over the past decade, we have witnessed the rapid global adoption of cloud computing. The emergence of mobile internet has resulted in unprecedented data creation from video, social networking, and advanced collaboration applications requiring the scale of cloud infrastructure versus traditional on-premise computing. The widespread digitalization of tasks across industries and associated exponential growth of data has led to a rapid shift from on-premise to cloud computing. Data generated in the cloud is forecasted by IDC to increase materially, from less than 20% of the world's data generation in 2022 to 32% by 2027. This shift towards the cloud is rapidly accelerating due to increasing demand for compute-intensive AI workloads that are truly optimized only when deployed at cloud scale. According to Dell'Oro, accelerated servers for AI applications represent the fastest growing segment of the server market with shipments forecasted to expand from 1.2 million servers in 2023 to nearly 3.4 million servers in 2027.

The transition to the cloud has been fueled by the unparalleled ease, flexibility, and security of deploying computing resources at scale, with minimal upfront required capital investment by users. Importantly, the cloud provides enterprises with access to the latest technology and superior computing resources to transform their businesses. The result is improved time-to-market for products and services, and a stronger competitive position versus purchasing computing resources such as servers, storage systems, and networking devices from system OEMs and managing those computing resources themselves in on-premise data centers.

Cloud infrastructure requires highly customized integration. Hyperscalers, which include public cloud service providers such as AWS, GCP, and Microsoft Azure, are diverse and complex. Hyperscalers also include large organizations, such as Meta, and their infrastructure is highly optimized for proprietary workloads that run in their private clouds. Other enterprise companies utilize a hybrid approach, using both public and private clouds to balance scale and cost.

The proliferation of cloud computing has resulted in several important changes in the semiconductor ecosystem as hyperscalers seek to provide differentiated solutions to their users.

*Hyperscalers are differentiating with custom hardware and processors.* Hyperscalers are increasingly bringing strategic aspects of cloud hardware in-house, which includes custom server designs, CPUs, and AI accelerators such as TPUs. These custom solutions directly impact and add value for their users. Importantly, their suppliers for connectivity and other technologies must keep pace with the hyperscalers' rapid development of custom hardware, and support each of their unique system requirements.

*Hyperscalers are redefining the technology roadmaps and supply chain requirements of their semiconductor suppliers.* Hyperscalers require that their suppliers' products deliver the highest performance across complex and diverse workloads in the cloud. This includes high quality standards such as near-zero defect tolerance and rigorous qualification processes. Furthermore, hyperscalers' suppliers must ramp up new products at a rapid pace more akin to what is required for consumer electronics such as smartphones. The combination of these quality standards and ramp up requirements has redefined the product roadmaps and supply chain requirements for semiconductor suppliers.

*Hyperscalers are laser-focused on server uptime, scaling, and fleet reliability.* Hyperscalers deploy their infrastructure as a service, so uptime and utilization are critical for their businesses. If their servers are idle, underutilized, or worse, offline, hyperscalers' financial results are directly impacted. Hyperscalers' demand for reliability drives their stringent observability requirements at every level of their operations.

*Hyperscalers are committed to green data centers and environmental sustainability.* Hyperscalers' data centers demand for power and their need for more capacity is growing as quickly as the business and services that the hyperscalers' cloud services support. Hyperscalers demand power efficient and environmentally sustainable infrastructure solutions in order to cost-effectively and responsibly address the demand for cloud and AI workloads.

### ***AI is the Era-Defining Technology Driving the Next Generation of Cloud Infrastructure***

AI touches many aspects of our daily lives today, from vision processing for autonomous vehicles to speech recognition systems for chatbots. According to IDC, by 2025, the Global 2000 organizations will allocate over 40% of their core IT spend to AI-related initiatives, leading to a double-digit increase in the rate of product and process innovations. Hyperscalers' customer demand for AI and other compute-intensive applications such as data analytics, scientific computing, recommendation engines and, most recently, GenAI are rapidly driving an increased need for accelerated computing since conventional computing takes too long and is too expensive. GenAI is a type of AI that can create new content, such as images, videos, audio, text, and 3D models that requires a massive increase in computing resources. Broad-based adoption of AI is still in its early phases. According to Gartner®, by 2025, cloud-native platforms will serve as the foundation for more than 95% of new digital initiatives, up from less than 40% in 2021. This trend is largely driven by a significant increase in AI workloads.

Recent GenAI advances, as demonstrated by the launch of ChatGPT by OpenAI in late 2022, have shown the unprecedented capabilities and immense potential for training LLMs to enhance applications across industries. GenAI has the potential to drive massive workforce productivity and create up to \$10 trillion of value for the global economy by 2033, according to IDC.

According to NVIDIA, the latest AI models have up to 1 trillion parameters and are trained upon trillions of training tokens (i.e., data inputs). These AI models continue to increase in size and complexity. For example, in October 2021, Microsoft and NVIDIA announced the Megatron-Turing NLG model with 530 billion parameters. Just a few months later, in April 2022, Google published a research paper mentioning a trillion parameters for AI models. Doubling in model size typically requires an approximately 10x increase in computing capability. Given their massive need for computing, GenAI is only practical at cloud scale.

To address the performance and scalability requirements of AI and other compute-intensive applications, hyperscalers have adopted heterogeneous, "accelerated computing" architectures to target specific workloads. AI accelerators such as GPUs, TPUs, and FPGAs, with their massively parallel compute engines and high bandwidth connectivity to memory and data, are foundational to the AI infrastructure. A typical accelerated computing server consists of multiple AI accelerators (for example, eight in NVIDIA's HGX platform) connected to a head node which comprises CPUs (two in NVIDIA's DGX platform), together with multiple NICs (ten in NVIDIA's DGX). To address increasingly larger and more complex AI workloads, hyperscalers interconnect tens of thousands of GPUs and other AI accelerators that process workloads in parallel across thousands of servers to increase system compute capacity. Put simply, the data center has become the modern computer for AI workloads.

### ***Existing Connectivity Solutions are Inadequate to Deploy AI Infrastructure at Cloud Scale***

GPUs and other AI accelerators are often the most expensive and scarce part of data centers. According to SemiAnalysis, AI accelerators constitute more than 70% of the bill-of-materials ("BOM") for AI servers. AI accelerators are efficient at computing, challenging the rest of the cloud and AI infrastructure to effectively

transport data to and from them to maximize their utilization. However, GPUs and other AI accelerators often sit idle waiting for data to become available. Increasing the utilization of AI accelerators presents a large challenge as well as a massive opportunity for connectivity suppliers.

Purpose-built connectivity solutions that connect GPUs and other AI accelerators with each other directly or between servers are required to unleash AI accelerators' full potential at cloud scale and solve the following critical data, network, and memory bottlenecks:

**Data and network bandwidth bottlenecks.** The connectivity between GPUs, other AI accelerators, CPUs, storage devices, and networking subsystems in an AI platform must deliver ever-increasing bandwidth. The connectivity topology also changes from a hierarchical network where a server connects to a switch, to a fabric network where AI accelerators connect to each other directly within an AI cluster. This dense fabric connectivity is required since every AI accelerator needs full bandwidth and low latency access to each other. The net result is the number of high-speed links in an AI cluster is growing rapidly. For example, in an NVIDIA GH200 cluster, we estimate that there are 15 high-speed links per AI accelerator.

GPUs and other AI accelerators are connected to each other and to system devices over different protocols. There are vendor-specific protocols such as NVLink and InfiniBand that exist alongside other industry standard protocols such as PCIe, Ethernet, and CXL. In response to the insatiable demand for interconnect performance, standards bodies such as The Institute of Electrical and Electronics Engineers ("IEEE"), the PCI-Special Interest Group (PCI-SIG), and the CXL Consortium are fast tracking the release of new generations of specifications with far greater data rates, bandwidth, and capabilities.

**PCIe.** The PCIe interface is native to GPUs and other AI accelerators, CPUs, solid-state storage devices, and NICs, and is by far the most prevalent protocol for moving data at high-bandwidth and low latency inside a server. The latest PCIe 5.0 deployed solutions support up to 32Gbps/lane, and data rates have doubled since the last version.

**Ethernet.** Ethernet connects servers to ToR switches, and switches to each other in a hierarchical structure to build large scale networks within data centers. The latest deployed high speed Ethernet ports support up to 100Gbps/lane, and data rates have also been doubling roughly every two years.

**CXL.** CXL is a cache-coherent protocol which is built on top of PCIe interfaces and operates at the same data rates as PCIe. CXL is defined to optimize low latency connectivity both amongst AI accelerators in a fabric network, and to CPUs.

**Exploding signal integrity challenges.** Data transfer rates across all protocols have been rapidly growing to support compute-intensive workloads, and the physical size of AI server clusters has grown as well, compounding the signal integrity problem. In AI servers, signals must travel farther distances at faster rates which results in a loss of signal fidelity and reduced link performance.

**Memory wall.** The term "memory wall" was first theorized in the mid-1990s to define what was becoming an obvious problem at the time: CPU performance had outpaced the ability for memory subsystems to provide them with data and memory access, thereby limiting computing performance. Thirty years later, this statement still holds true, especially with respect to memory-intensive applications such as AI where training LLMs on big datasets in a reasonable timeframe requires ultra-fast memory bandwidth and significant memory capacity.

AI models need to be accessed and updated rapidly by all of the GPUs and other AI accelerators in a cluster, requiring model parameters to be stored in quickly accessible HBM. However, large AI models such as LLMs often cannot fit into a single AI accelerator's memory subsystem. A commonly deployed solution is to divide the AI model into small pieces that can each fit in a single AI accelerator memory subsystem and then interconnect many such AI accelerators to hold the entire AI model in their combined memory. GPUs and other AI accelerators need to be networked together at multi-terabit per second speeds so they can seamlessly access each other's memory subsystems. Modern connectivity devices allow for the addition of a fast memory tier to each AI accelerator, providing terabytes of capacity at nanosecond level latencies. In



addition, CXL is being adopted within the data center to address declining memory bandwidth per core in modern CPUs, and to enable expansion, pooling, and sharing of memory across AI accelerators in a heterogeneous computing system.

**Interconnect reliability and observability.** Given the massive parallelization of AI workloads across AI accelerators, the progress made by the AI cluster is highly dependent upon each AI accelerator performing flawlessly. When a single server or a single AI accelerator fails, or the network connecting them does not transfer data reliably, the entire AI server cluster will typically stop, re-synchronize, and restart, reducing infrastructure utilization, and increasing the time and cost required to train AI models.

**Cloud and AI infrastructure diversity drives connectivity solution complexity.** Hyperscalers optimize their cloud infrastructure to meet the unique requirements of their users and internal business models. The system architecture, and therefore the connectivity subsystem needs, tend to be different between cloud infrastructure deployments. This requires customization and flexibility to support a wide range of use cases.

The bottleneck for AI deployments in the cloud has shifted from computing performance to connectivity. We believe a new approach for connectivity is required to address the data, network, and memory bottlenecks in a reliable, scalable, customizable, and interoperable manner for cloud and AI infrastructure.

### **Our Solution**

Building on years of experience with a singular focus on addressing connectivity challenges in data-centric systems, we have developed and deployed our leading Intelligent Connectivity Platform, built from the ground-up to unleash the full potential of cloud and AI infrastructure. Our Intelligent Connectivity Platform comprises:

- i) Semiconductor-based, high-speed, mixed-signal connectivity products that include a matrix of microcontrollers and sensors to monitor link performance; and
- ii) COSMOS, our software suite, which is embedded in our connectivity products and integrated into our customers' systems.

Our Intelligent Connectivity Platform provides our customers with the ability to deploy and operate high-performance cloud and AI infrastructure at scale, addressing an increasingly diverse set of requirements. We provide our connectivity products in various form factors including ICs, boards, and modules.

Our patented software-defined platform approach delivers critical connectivity performance, enables flexibility and customization, and supports observability and predictive analytics. We enhance the value of our platform with our Interop Lab, where we validate performance and interoperability between our connectivity products and other data center infrastructure suppliers' products in real-world scenarios. Our approach is key to efficiently address the data, network, and memory bottlenecks, scalability, customizability and interoperability requirements of hyperscalers.

### **Our Products**

In the last four years, we have successfully introduced three revenue-generating product families across multiple form factors including ICs, boards, and modules that are built upon our software-defined IC architecture:

**Aries PCIe®/CXL™ Smart DSP Retimers.** Our Aries products, which include our COSMOS software suite, are essential to enable higher PCIe/CXL data bandwidth and lower latency interconnectivity between various heterogeneous compute processors, storage, and network controllers. Aries digitally recovers degraded high-speed signals and retransmits a clean copy of the data, thereby extending the reach of existing cost-effective interconnects, while enabling higher data bandwidth.

**Taurus Ethernet Smart Cable Modules™.** Our Taurus products are hardware modules based on our Taurus ICs that increase network connectivity bandwidth between servers and switches over copper media. Taurus

modules incorporate our COSMOS software suite and extend Ethernet signaling reach at higher data rates, providing cost-effective, rack-level network connectivity for cloud and AI infrastructure, removing rack-level Ethernet connectivity bottlenecks.

**Leo CXL Memory Connectivity Controllers.** Our Leo products allow our customers to overcome processor memory bandwidth bottlenecks and capacity limitations, while leveraging our COSMOS software suite's built-in memory management and deep diagnostic capabilities. Leo ICs and boards enable expanding, sharing, and pooling of industry standard DRAM memory over high-speed serial links to support memory-intensive workloads running on AI accelerators and CPUs.

### ***COSMOS Software Suite***

Our COnnectivity System Management and Optimization Software, or COSMOS software suite, is foundational to our Intelligent Connectivity Platform. COSMOS is designed to enable our hyperscaler customers to seamlessly configure, manage, monitor, optimize, troubleshoot, and customize functions in our IC, board, and module products. COSMOS has a software component that operates on our customers' BMC, SMC, BIOS, and/or operating system, and interfaces with other COSMOS software components running on microcontrollers integrated into our ICs, boards, and modules.

Our software suite provides three distinct capabilities to our customers:

**Link Management.** A critical purpose of COSMOS is to ensure secure and robust data link communication between devices in a computing system. Each data link typically includes a large number of data lanes. Our software autonomously manages data links over wide operating conditions to ensure reliable operation. If a data link does become unstable (e.g., due to overheating or degrading components), our software can retrain the link to restore margins or manage the data rate to ensure robust data communication. This software is used across applications and protocols, ensuring compliance with industry standards (e.g., PCIe, Ethernet, CXL) while providing flexibility for the specific requirements of our customers.

**Fleet Management.** COSMOS allows real-time monitoring of and predictive maintenance for server fleets. Our hyperscaler customers gather detailed performance data over time from millions of links. Data from device-level software components is communicated to platform-level software to provide fleet-level insights and analytics. This allows for proactive and predictive maintenance of degraded hardware as well as reassignment of customer workloads to healthy hardware.

**RAS.** COSMOS enables RAS capabilities by detecting, reporting, and testing the data, network, and memory links supported by our product families. On-chip data integrity modules check for a variety of conditions such as media errors and performance anomalies. Software components on our ICs report telemetry data to allow for performance monitoring, error detection, and correction to prevent an application's performance from being impacted.

COSMOS is an integral part of our Intelligent Connectivity Platform that allows customization to support specific hyperscaler requirements throughout the lifecycle of their infrastructure. COSMOS improves our products over time by giving our customers new features, enhancements, and critical updates.

### ***Industry-Trusted Cloud Scale Interoperability Lab***

We have built and deployed our industry-trusted cloud scale Interop Lab and developed comprehensive interoperability test suites. These tests validate performance and interoperability between our connectivity products and other data center infrastructure suppliers' products in real-world scenarios to minimize interoperation risk, reduce system development costs, lower unplanned downtime, and accelerate time-to-market. Lessons learned from our Interop Lab are continually rolled into our new and existing products, including our

COSMOS software suite, making our customers' platforms work more efficiently over time in a virtuous cycle of improvement.

Together, our software-defined connectivity products and our COSMOS software suite form our Intelligent Connectivity Platform. We enhance the value of our platform with our Interop Lab and by providing early interoperability reports with other data center infrastructure suppliers' products. Our leading Intelligent Connectivity Platform is performant for the most demanding cloud and AI applications, provides customizable products for different hyperscalers, is reliable at cloud scale, and we believe it increases value to our customers over time.

### **Key Customer Benefits of Our Intelligent Connectivity Platform**

Our Intelligent Connectivity Platform provides our customers with the ability to deploy and operate high-performance cloud and AI infrastructure at scale, addressing an increasingly diverse set of requirements.

***Superior connectivity performance critical for the next generation of cloud and AI infrastructure.*** We developed our purpose-built Intelligent Connectivity Platform to deliver high bandwidth and low latency connectivity at significant scale, enabling the deployment of the next generation of cloud infrastructure critical for data-centric workloads such as AI. This enables our hyperscaler customers to confidently support the latest, largest, and most compute-intensive workloads, enhancing the value of their cloud and AI infrastructure.

***Seamless deployment through customizable products, utilizing our customer PSSP model.*** Our software-defined connectivity platform is highly customizable to address the unique needs of each hyperscaler, which enables our hyperscaler customers to seamlessly provide differentiated solutions to their users without compromising on performance, features, or cost. At the same time, we simplify their connectivity sourcing needs by using the same device across a diverse set of new and existing infrastructure for high-volume requirements. Relative to traditional custom hardware products, our customers benefit from faster time-to-market, reduced risk, and lower cost of ownership due to the economies of scale of our PSSP model. The customizable nature of our products is ideal to address the varying cloud infrastructure requirements:

***Public Cloud.*** Performance is optimized across extensive and diverse workloads;

***Hybrid Cloud.*** Balancing internal use and external cloud applications, typically integrating multiple AI platforms; and

***Private Cloud.*** Optimized for specific workloads, often with expanded AI application support.

***Robust reliability, QoS, and software management capabilities facilitate deployment at scale.*** Our platform provides (i) robust signal integrity to overcome increasing channel insertion loss as connectivity speeds increase, (ii) server-grade RAS support, and (iii) sophisticated link telemetry features that enable signal monitoring for QoS. Our COSMOS software suite provides critical system-level operational insights, allowing our customers to manage, debug, and deploy cloud and AI infrastructure at scale.

***Real-time link monitoring for fleet health management and improved user experience.*** Managing millions of servers with billions of high-speed data links can be an operational nightmare for large cloud operators. Link health monitors embedded in our products and software algorithms implemented in our COSMOS software suite provide rich insights into the health, performance, and utilization of interconnects for predictive maintenance, as well as for the reassignment of user workloads to healthy hardware for improved user experience.

***Platform optionality and supply chain flexibility.*** Today, our connectivity solutions are at the heart of major AI platforms deployed worldwide, featuring both commercially available GPUs and proprietary AI accelerators. Our Intelligent Connectivity Platform supports multiple cloud and AI compute platforms which incorporate a mix of GPUs, other AI accelerators, and CPUs. This enables our customers to

seamlessly port their connectivity architectures across multiple system platforms featuring processors from different suppliers, including proprietary in-house processors from hyperscalers.

**Multiple form factors expand deployment options and accelerate time-to-market.** We provide our connectivity products in various form factors including ICs, boards, and modules. We strive to ensure that our products perform optimally across form factors, which enables our customers to adapt their product sourcing plans with us to support their dynamic system requirements and quickly deploy multiple architectural topologies across their infrastructure. For example, we provide Aries in an IC form factor for board-level applications and have also evolved this offering per our customers' needs to quickly provide the same solution in a module form factor to extend PCIe over active electrical cables.

**Accelerated time-to-market improves ROI for hyperscalers.** We believe we enable our hyperscaler customers to offer the latest and largest AI models to their users faster than their peers, which is critical for hyperscalers to retain and grow their user bases. Our products are designed to accelerate time-to-market by solving interoperability issues with data center infrastructure ecosystem suppliers' products ahead of our customers' efforts to design and qualify systems for deployment. Our Interop Lab extends the useful life of our customers' cloud and AI infrastructure, helps them retain and grow their business with their users, and improves the ROI of their infrastructure.

**Improved utilization of cloud and AI infrastructure lowers TCO.** Our Intelligent Connectivity Platform enables increased utilization of expensive GPUs and other AI accelerators, unlocks scalable memory expansion, and provides greater system uptime to lower the total cost of system ownership for hyperscalers, improving the value proposition that they can provide for their users.

**Green data centers and environmental sustainability.** Our Intelligent Connectivity Platform increases power efficiency by increasing bandwidth over existing interconnects such as copper cables thereby reducing energy requirements compared to optical cables. We further enable environmental sustainability by extending the useful life of our customers' existing hardware, which includes copper media.

Our Intelligent Connectivity Platform is purpose-built to unleash the full potential of accelerated computing at cloud scale, making us a critical and trusted partner to our hyperscaler customers and companies in the data center infrastructure ecosystem.

### **Our Customer Flywheel**

Given the use-cases for compute-intensive applications, as led by AI, are diverse and complex, hyperscalers have adopted different accelerated computing architectures that are scale- and cost-optimized depending on the workload. We use our deep technical expertise and ability to innovate and tailor our products to meet each hyperscalers' exacting needs. As a result, our business sees a powerful flywheel effect, which creates additional demand for existing products and enables us to bring additional new products to market in close relationships with our customers.

This flywheel effect consists of:

**Our customer PSSP business model which enables symbiotic customer relationships.** Based on the unique requirements of each customer, our software-defined platform architecture allows us to rapidly develop our standard products and gives us the flexibility to make modifications, customizations, and upgrades, even after deployment. This PSSP approach provides us with operating leverage and leads to increased collaboration with our customers, allowing us better customer access and greater engagement, resulting in greater visibility into new customer platforms and additional content opportunities.

**Our cloud scale Interop Lab which provides rigorous testing for interoperability within the data center infrastructure ecosystem.** We have invested in ensuring wide interoperability of our products, and this is at the heart of our product development process. Our focus on ensuring interoperability for our products allows

our customers to deploy them with confidence and elevates our position as a trusted partner to our customers and across the data center infrastructure ecosystem. We engage with our customers through our Interop Lab, where industry participants work together to establish compatibility and stress test products early in their product development process, and prior to large-scale deployments. When connectivity issues are identified in our labs, we can frequently resolve them through COSMOS software suite enhancements for our products. The ability to identify and resolve them seamlessly, utilizing our COSMOS software suite and our Interop Lab, enhances both our products and our customers' solutions over time.

***Our deep system level visibility into critical components in the data center.*** Our COSMOS software suite enables deep visibility into the performance and limitations of cloud and AI infrastructure, providing us with a pathway to continuously improve our products and increase the value that they provide to our customers. This visibility, along with the diagnostics and management capabilities of our COSMOS software suite enables our customers to reduce their total cost of ownership. Once our COSMOS software is integrated into our customers' systems, we gain visibility into the performance and operation of our customers' infrastructure, providing us with a pathway to continuously improve our products, expand product offerings, and increase the value that our products add to our customers.

***Natural partner for implementing generational upgrades.*** Our COSMOS software suite allows customizations through link management, fleet management, and RAS to meet unique customer requirements. When coupled with our leading connectivity products, this makes us an ideal partner for hyperscalers when they need to implement generational upgrades. New generations of our products are designed to work seamlessly with COSMOS software, which is already deployed with our customers.

Our customer flywheel creates a virtuous cycle where we gain more insight from existing deployments and translate them into hardware and software feature upgrades for our product families, thereby continuously improving our Intelligent Connectivity Platform.

We sell our products both through distributors and directly to end customers and their manufacturing partners. We are the primary interface with our hyperscaler, system OEM customers and their manufacturing partners whose requirements help drive the design of our solutions. Presently most of our direct revenue comes from distributors who operate as logistics and order fulfillment service providers to our customers.

### **Our Competitive Strengths**

Our market-leading technology, fundamental to our Intelligent Connectivity Platform, has allowed us to win many high-volume designs based on our products for cloud and AI infrastructure. We believe our singular focus on cloud and AI connectivity, our software-defined platform architecture, and our system-level approach fortify our customer relationships, which are reinforced with each generational upgrade and new product family introduction, creating our durable competitive moat. Our competitive strengths include:

***Singular focus on cloud and AI connectivity.*** Our Intelligent Connectivity Platform was purpose-built from the ground up to solve cloud and AI infrastructure challenges. Our comprehensive suite of PCIe, Ethernet, and CXL products addresses the data, network, and memory bottlenecks of accelerated computing at cloud scale. Our singular focus on cloud and AI infrastructure provides us with a deep understanding of our customers' needs that has enabled us to develop a portfolio of high value-added solutions that meet their exacting, complex, and diverse cloud and AI infrastructure requirements.

***Software-defined IC architecture underpins our connectivity products.*** Unlike legacy approaches that use either a "kitchen sink" super-set product or a highly customized product to address the differentiated infrastructure and workload needs of each hyperscaler, we have partnered with hyperscalers and many of the world's leading data center infrastructure suppliers, including GPU and other AI accelerator vendors, to create a differentiated platform. Our software-defined architecture optimizes time-to-market and allows us to easily customize our products to match the unique performance and functional requirements of our

customers. This approach allows for an accelerated design process, with faster time-to-sample, and greater levels of flexibility and customization compared to traditional hardware-centric approaches. Our approach allows us to upgrade and modify our products in-field, as opposed to requiring hardware replacements which are costly and result in increased downtime. When coupled with our leading connectivity products, this makes us an ideal partner for hyperscalers when they need to implement generational upgrades, fortifying our position and strengthening our competitive moat.

***COSMOS software suite provides unmatched flexibility and customizability.*** COSMOS enables our customers to seamlessly configure, manage, monitor, optimize, troubleshoot, and customize functions within our product families. With link management, fleet management, and RAS capabilities, COSMOS allows for customization to support specific hyperscaler requirements throughout the lifecycle of their infrastructure, offering our customers frequent enhancements and additional capabilities. Adaptability and regular feature refinement establish COSMOS as a differentiated asset of our platform, providing additional value to our customers and solidifying our position within our customers' cloud and AI infrastructure.

***System-level approach to purpose-built product families.*** We go beyond providing a solution for standard connectivity protocols and take a system-level approach to our products to ensure that we address specific and critical problems for our hyperscaler customers. We provide a complete platform consisting of ICs, boards, and modules coupled with software and interoperability reports that ensure ease of integration and customer adoption. This approach has enabled us to be viewed as a trusted strategic partner by our customers, leading to deeper collaboration and early insight into future product opportunities.

***First mover advantage provides early insight into evolving customer needs.*** We have created and commercialized first-to-market PCIe, Ethernet, and CXL products, and with more than 300 design wins, we have become a trusted partner and a proven supplier to our hyperscaler and system OEM customers. As a result, we gain extensive insight from existing deployments and translate them into new product opportunities.

***Cloud-based IC research and development fuels our continued innovation.*** We were "born in the cloud," with our research and development located in the public cloud. By harnessing the scale of cloud computing, we believe we improve quality, reduce development costs, and accelerate speed of execution, which allows us to get to market faster than traditional semiconductor companies. Furthermore, the learnings from using the cloud ourselves feeds innovation across all aspects of our Intelligent Connectivity Platform, which is used to improve and scale cloud and AI infrastructure deployments.

***Broad and deep relationships across the entire data center infrastructure ecosystem.*** We have developed deep relationships across the data center infrastructure ecosystem by building our products to be interoperable with products from NVIDIA, Advanced Micro Devices, Intel, proprietary in-house processors from hyperscalers, as well as those from memory and storage vendors. At our Interop Lab, industry participants work together to ensure compatibility and stress test products early in their product development process. Our Interop Lab positions us at the front and center for new product adoptions within the ecosystem, ensuring better interoperability of our products in customers' infrastructure and providing us with cycles of learning ahead of our competitors.

For instance, we believe being integrated into reference designs provided by industry leaders like NVIDIA, Advanced Micro Devices, and Intel demonstrates their trust in us as a reliable supplier. By aligning our solutions with their established designs, we gain understanding of their product architectures, which not only expedites our product development process, but also ensures better compatibility with a wide array of other hardware elements within the ecosystem. The resulting robustness of our products embeds us deeper with our customers, further strengthening our relationships across the data center infrastructure ecosystem.

***Robust supply chain designed to serve hyperscaler customers.*** We believe we have built a robust and resilient supply chain that will meet the demand profile of hyperscalers, which requires quality assurance and an ability to rapidly scale volume production. We have a strong manufacturing relationship with TSMC, and we qualify multiple suppliers and vendors, enabling us to better weather potential unforeseen supply chain disruptions.

**Experienced management team with a proven track record of execution and innovation.** We have assembled seasoned leaders in IC, board, module, software, and system engineering to solve the connectivity challenges in cloud and AI infrastructure. Our founding team has spent the last three decades developing and commercializing connectivity products, and has a track record of successfully scaling leading semiconductor businesses and launching category-defining new products. We have further strengthened our senior leadership team by bringing in industry thought leaders with expertise in high-speed connectivity. Under their leadership, we have introduced three product families across multiple form factors including ICs, boards, and modules and feature SKU variants, with our Aries and Taurus product families already shipping second generation products. Over the last four years, we have introduced products at a steady cadence with leading PCIe, Ethernet, and CXL solutions.

## **Our Market Opportunity**

Hyperscalers are in the initial stages of a multi-year investment cycle to build out next-generation cloud and AI infrastructure. According to estimates from Dell’Oro, worldwide data center infrastructure capital expenditures are expected to grow from \$264.9 billion in 2023 to \$503.4 billion by 2027. Over the same period, Dell’Oro projects that total servers deployed will grow from approximately 14.0 million units in 2023 to over 20.5 million units in 2027. According to Dell’Oro, accelerated servers for AI applications represent the fastest growing segment of the server market with shipments forecasted to expand from 1.2 million units in 2023 to nearly 3.4 million units in 2027. Given our singular focus on cloud and AI connectivity to date, we are strongly positioned to address the large and growing cloud and AI market opportunities for mission critical connectivity solutions.

Our technology and product portfolios target the global wired connectivity and CXL memory connectivity controller markets. According to Gartner®, within global wired communication electronics, the wired connectivity market is poised to grow from \$16.9 billion in 2023 to over \$23.0 billion in 2027. For CXL memory connectivity controller, Yole Intelligence, part of Yole Group, forecasts that nearly 100% of data center server CPUs will be “CXL-capable” by 2027. We estimate this will drive a CXL memory connectivity controller TAM of \$4.4 billion in 2027. In aggregate, we estimate that our TAM will grow from approximately \$17.2 billion in 2023 to nearly \$27.4 billion in 2027.

Within this TAM, we are particularly well positioned to benefit from several of its fastest growing segments, listed below.

**PCIe.** PCIe connectivity solutions are highly pervasive throughout data center infrastructure with ICs designed into 95% of global servers, according to ABI Research. Also, ABI Research projects PCIe connectivity solutions in the data center will grow from \$4.1 billion in 2023 to \$6.6 billion in 2027. Importantly, according to ABI Research, AI applications represent one of the fastest growing market opportunities for PCIe in the data center and are expected to expand from \$630 million in 2023 to \$1.6 billion in 2027, representing a four-year CAGR of 27%. Our Aries product family currently addresses a portion of this market opportunity, and we expect our ability to address more of this market opportunity to increase over time as we introduce new products and add features and capabilities.

**Ethernet.** Ethernet connectivity solutions in the data center are poised to grow from \$4.0 billion in 2023 to \$5.8 billion in 2027, according to 650 Group. With Ethernet networking applications transitioning to high-speed 400G/800G data links, 650 Group projects Active Electrical Cables (“AEC”) will represent 63% of cloud NIC-to-ToR interconnects in 2027. We estimate this transition will drive the AEC module TAM from approximately \$70 million in 2023 to approximately \$1.3 billion in 2027, representing a four-year CAGR of 108%. Our Taurus product family holistically addresses the AEC market opportunity, and we expect our ability to address more of the Ethernet market opportunity to increase over time as we introduce new products and add features and capabilities.

**CXL.** CXL connectivity solutions are in the early stages of market adoption, with the high-volume deployment of next-generation CXL-capable server CPUs representing the key catalyst for broad-based



CXL utilization. Yole Intelligence, part of Yole Group, is projecting that 60% of data center server CPUs will be CXL-capable in 2025, and nearly 100% CXL-capable by 2027. Based on Yole Intelligence, part of Yole Group, trajectory for CXL-capable server CPUs, we estimate the CXL memory controller market opportunity will expand from \$265 million in 2023 to \$4.4 billion in 2027, representing a four-year CAGR of 102%. Our Leo product family addresses the CXL memory connectivity controller market opportunity, and we expect to accelerate CXL memory connectivity controller adoption over time as we introduce new products and add more features and capabilities.

We expect to introduce new product families that will enable us to service a larger percentage of the broader wired connectivity market opportunity over time. Additionally, we believe our current technology and product portfolios address incremental market opportunities outside of our global wired connectivity and CXL memory connectivity controller TAM. With a focus on solving mission-critical connectivity challenges for compute-intensive applications, wireless communications electronics and automotive markets are examples of additive market opportunities, which are not included in our TAM today and represent \$2.7 billion and \$3.9 billion market opportunities, respectively, in 2027, according to Gartner®.

### **Growth Strategies**

Today, our connectivity solutions are at the heart of major AI platforms deployed worldwide, featuring both commercially available GPUs and proprietary AI accelerators. We have become a trusted partner and a proven supplier to our hyperscaler and system OEM customers. Building on this foundation, the strategic tenets of our growth strategy include:

***Increase sales to our existing customers as cloud and AI workloads continue to grow exponentially.*** We have established a leading market position with Aries, which is deployed across all of the major hyperscalers' and system OEMs' platforms, and we expect to drive future growth as our customers ramp up their platform deployments. Our Taurus and Leo product families are expected to further expand sales to our current customers as they complete technical qualification and are deployed across our customers' cloud and AI infrastructure.

***Increase our revenue-per-server-rack with generational upgrades and new products.*** We continue to invest in the development of new products and technologies that will address new types of functionalities and span additional form factors across new types of media:

***Generational upgrades drive increasing value for our product families*** – As a leading provider of connectivity products, we believe we are well positioned to address the challenges of accelerated computing, which are exacerbated by the proliferation of GenAI. As the industry deploys next-generation protocols such as PCIe Gen 6.0 and 7.0, 200Gbps per lane Ethernet connections, and CXL 4.0, we expect to provide updates to our product families that support generational upgrades at our hyperscaler customers. We expect each subsequent generational change in technology will drive an increase in our value proposition and enhance our revenue on a like-for-like basis compared to prior product generations.

***Increase in attach rates*** – We anticipate an increase in attach rates for our product families in next-generation system topologies due to higher data rates, larger physical system footprints, and greater memory bandwidth and capacity requirements.

***Develop new products to service emerging opportunities*** – Over time, we also expect to leverage our core semiconductor design, hardware expertise, and custom software assets to develop and introduce new product families and form factors that will enable us to service a larger percentage of the broader wired connectivity market opportunity. As cloud and AI infrastructure requirements scale, we foresee emerging use cases that require new products with added functionalities to solve data, network, and memory bottlenecks across multiple types of interconnects. These new development efforts will span incremental form factors across new types of media as well as address new types of functionalities.

***Shape emerging connectivity standards to drive future product adoption.*** We are committed to participating in the establishment of new and next-generation standard connectivity protocols, providing us



with insights to create products to continue to deliver better performance, versatility, and compatibility for cloud and AI infrastructure. As generational advancements in standard connectivity protocols emerge, we believe our proactive involvement with data center infrastructure ecosystem participants will enable us to grow our product offerings, ensuring sustained and robust growth.

**Attract and acquire new and emerging customers focused on AI.** We believe that we have a substantial opportunity to continue to grow our customer base. In addition to hyperscalers, we foresee emerging demand from companies that provide infrastructure for AI use cases, AI-dedicated data centers, and larger enterprises, as they begin to build proprietary systems with different architectural features to meet their unique requirements. As a leader in intelligent connectivity and as a partner with market leading GPU and CPU suppliers, we expect to be at the forefront of engaging with emerging cloud and AI infrastructure customers.

**Leverage our differentiated products and technologies into new data intensive end-markets.** We believe that the products and technologies that we have developed to solve connectivity problems for cloud and AI infrastructure can be leveraged for different use cases in adjacent growth markets for data-intensive applications. These markets include those for wireless communications infrastructure and automotive applications, including self-driving vehicles.

**Selectively pursue strategic investments or acquisitions to enhance our competitive positioning.** Although we expect to focus our growth strategies on organic expansion, we may pursue future investments or acquisitions that complement our Intelligent Connectivity Platform.

## Our Products and Technology

Our differentiated Intelligent Connectivity Platform is comprised of a portfolio of data, network, and memory connectivity products, which are built upon a unifying software-defined architecture. Today, our platform is comprised of three product families: Aries, Taurus, and Leo. Each product family has been purpose-built for cloud and AI infrastructure.

Our products are available in multiple form factors, specifically: ICs, boards, and modules. Our semiconductor-based, high-speed, mixed-signal connectivity products are based on a software-defined architecture incorporating a matrix of microcontrollers and sensors, and COSMOS, our unifying software suite that is embedded in our products and integrated into our customers' systems.

**Aries PCIe®/CXL™ Smart DSP Retimers (Aries).** Our Aries products, which include our COSMOS software suite, are essential to enable higher bandwidth and low latency interconnect between various heterogeneous compute processors, storage, and network controllers. Aries ICs are used to digitally recover high-speed signals that have been significantly degraded traveling over printed circuit boards (PCBs) or cables, and then retransmit a clean copy of the signal in compliance with applicable high-speed data transfer standards. Retimer devices can double the physical reach between AI accelerators including GPUs, CPUs, NICs, and other PCIe/CXL devices, enabling system designers to build large, accelerated computing clusters. Our Aries products include our COSMOS software suite and are widely deployed across all of the major hyperscalers as well as private clouds managed by enterprises.

The Aries product family has the following differentiated characteristics:

- Purpose-built for cloud and AI infrastructure to double the reach of PCIe between devices (GPU, CPU, NIC, DPU, NVMe SSD, CXL) by compensating for up to 36dB of channel insertion loss at 32Gbps/lane or 1024Gbps per link;
- Ultra-low latency data paths ideal for low-latency CXL memory applications;
- Software-defined architecture which leverages a matrix of microcontrollers and sensors to ensure robust interoperability between links while fully complying with complex PCIe/CXL protocols, and real-time monitoring of link performance;
- Stress tested at our Interop Lab with all major GPUs, other AI accelerators including proprietary in-house processors from hyperscalers, CPUs, switches, and over 30 endpoints;

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- COSMOS software suite for advanced link management, deep diagnostics, lane margining, and enhanced telemetry to ensure infrastructure uptime;
- Regular COSMOS software updates, enhancements, and new features roll outs;
- Flexible configuration options to support multiple link widths (x16, x8, x4, x2), which automatically support link width and link speed degradation as well as support lane reversal for ease of PCB layout; and
- Integrated AC-coupling capacitors to reduce overall system BOM cost and improve signal integrity performance.

Aries is in its second generation, and includes multiple products to support PCIe 4.0, PCIe 5.0, and CXL 1.1, in x16 and x8 package configurations.

**Taurus Ethernet Smart Cable Modules™ (Taurus).** Our Taurus products are hardware modules based on our Taurus ICs that increase network connectivity bandwidth between servers and switches over copper media. Taurus modules incorporate our COSMOS software suite and extend Ethernet signaling reach at higher data rates to provide cost-effective, rack-level network connectivity for cloud and AI infrastructure and remove rack-level Ethernet connectivity bottlenecks. At the heart of our Taurus products is our COSMOS software suite, which delivers advanced diagnostics and seamless in-field upgrades.

Taurus can remove rack-level Ethernet connectivity bottlenecks by overcoming reach, signal integrity, and bandwidth utilization issues in up to 100Gbps per lane in copper media connectivity applications. By aggregating multiple lanes, Taurus enables 200/400/800Gbps Ethernet Switch-to-Switch and Switch-to-Server connections over thinner, lighter cables, and is optimized for high-density, high-throughput cloud and AI infrastructure rack configurations that demand longer reach, greater airflow, and simple cable management.

Taurus modules are customized to individual hyperscaler requirements and are used by multiple cable manufacturers to assemble full active electrical cables. This business model offers two differentiated advantages to our hyperscaler customers:

- i) Taurus provides a consistent electrical interface to the host (server or switch) for managing high speed signal integrity, and a common software interface via our COSMOS software suite for managing diagnostics, telemetry, and in-field updates. This greatly simplifies validation, qualification, and generational upgrades for our customers;
- ii) Taurus ensures a diverse cable supply chain for our customers by enabling multiple cable manufacturers to readily meet hyperscalers' stringent system qualification requirements by integrating Taurus' proven designs with manufacturing ready hardware and software into their cable assembly processes. Cable manufacturers continue to bring innovation to bulk cable technology and offer multiple cable length configurations to our hyperscaler customers.

Taurus offers the following differentiated characteristics:

- Up to three-meter reach over thin copper cables to enable the length and flexibility needed for rack-level data center connectivity that is critical for cloud and AI infrastructure;
- High bandwidth and low latency data paths, which are necessary for accelerated computing applications;
- Lower power consumption, increased reliability, and lower TCO compared to active optical cables;
- Gearbox capability resolves rate mismatch between network interface cards and switches through aggregation and disaggregation of individual lanes, enabling cost-effective and power efficient conversion of data streams at one rate to multiple streams at a lower rate;
- Scalable for 200Gbps/400Gbps/800Gbps per module Ethernet connections;

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- COSMOS software suite delivering extensive diagnostics, link management, telemetry, and in-field software updates; and
- Compatible with multiple cable vendors for easy multi-sourcing of active cable assemblies from a diverse supply chain.

Now in its third generation, Taurus includes multiple module products to support 200GbE, 400GbE, 800GbE in Quad Small Form-Factor Pluggable (“QSFP”), Quad Small Form-Factor Pluggable Double Density (“QSFP-DD”), and Octal Small Form Factor Pluggable (“OSFP”) form factors with a variety of cable configurations.

**Leo CXL Memory Connectivity Controller (Leo).** Leo products include the Leo IC memory connectivity controller and Aurora add-in-card (“AIC”) boards to overcome processor memory bandwidth bottlenecks and capacity limitations inherent in accelerated computing architectures. Leo includes our COSMOS software suite that supports built-in fleet management with extensive diagnostics, health monitoring, and advanced RAS capabilities. Leo products enable attaching industry standard DDR5 memory to CPUs and AI accelerators over a high-speed serial link.

Leo is a leading CXL memory connectivity controller that addresses the “memory wall” challenges by enabling cost-effective and scalable memory expansion, pooling, and sharing, enabling multiple components in accelerated computing architectures to access the same memory. Working in close collaboration with CPU manufacturers, we believe Leo is the first product with unique hardware features to deliver the benefits of CXL memory expansion without requiring any change to application software. Additionally, Leo also supports memory tiers for CXL-aware applications. In addition to significant memory bandwidth and capacity performance, Leo utilizes COSMOS to customize the solution for specific server grade memory management requirements, deliver unparalleled telemetry, diagnostics, memory stress tests, and in-field software updates.

Since its introduction in 2022, Leo has established a leadership position owing to the following differentiated characteristics:

- Purpose-built for cloud, AI, and other memory-intensive workloads;
- Maintains memory coherency between directly attached processor memory and CXL attached memory;
- Supports memory expansion with two channels of DDR5-5600 memory modules with up to 2TB total capacity while fully utilizing the available bandwidth of a x16 CXL 2.0 interface;
- Delivers up to 50% more memory bandwidth and 50% more memory capacity when coupled with leading CXL 1.1+ CPUs;
- COSMOS software fully integrates with cloud operating software to holistically manage DRAM memory attached to a Leo memory connectivity controller;
- Supports memory pooling to reduce memory stranding and memory sharing to improve data transfer efficiency between processors;
- High bandwidth and ultra-low latency data paths to maximize application performance;
- Seamless interoperation with major CXL-enabled processors such as GPU, other AI accelerators, CPUs, and DDR5 memory modules;
- Temperature and health monitoring of Leo memory controllers and attached memory modules;
- Server-grade customizable RAS features to maximize server up-time and reduce operational costs;
- Security features fully aligned with industry specifications to ensure device and firmware integrity for cloud deployment;
- CXL 2.0 integrity and data encryption to provide end-to-end protection of data on the CXL link; and

- Offered as an IC for custom board designs and in a PCIe add-in-card form factor for easy plug-and-play deployment.

**COSMOS Software Suite.** Our COnnectivity System Management and Optimization Software, or COSMOS software suite, is foundational to our Intelligent Connectivity Platform. COSMOS is designed to enable our hyperscaler customers to seamlessly configure, manage, monitor, optimize, troubleshoot, and customize functions in our IC, module, and board products. COSMOS has a software component that operates on our customers' BMC, SMC, BIOS, and/or operating system, and interfaces with other COSMOS software components running on microcontrollers integrated into our IC devices and hardware modules.

Our software suite provides three distinct capabilities to our customers:

**Link Management.** A critical purpose of our COSMOS software suite is to ensure secure and robust data link communication between devices in a computing system. Software is authenticated using on-chip security modules which ensure only trusted-source microcode is executed and only trusted entities have permission to update the microcode. Each data link typically includes a large number of data lanes. Our software autonomously manages data links over wide operating conditions to ensure reliable operation. Link formation is managed through software-defined protocol engines which conform to industry standards (e.g., PCIe, Ethernet, and CXL) while maintaining the flexibility needed to support specific hyperscaler customer requirements. The link management software is application and system-aware and can optimize signaling (e.g., equalization parameters or signal levels) and protocol parameters (e.g., data path latency or link state timeouts), based on the specific application or system needs. If a data link does become unstable (e.g., due to overheating or degrading components), our software can retrain the link to restore stability or manage the data rate to ensure robust data communication. In some cases of link instability, our software can be empowered, depending on customer preference, to autonomously act to restore link stability and normal operating conditions (e.g., throttling speed to mitigate over-temperature conditions).

**Fleet Management.** COSMOS allows real-time monitoring of and predictive maintenance for server fleets. Our hyperscaler customers gather detailed performance data over time from millions of links, including link performance. Data from device-level software components is communicated to platform-level software to provide fleet-level insights. This allows for proactive and predictive maintenance of degraded hardware as well as reassignment of customer workloads to healthy hardware. The health analysis encompasses physical layer, protocol layer, and environmental factors. Device/module-level software components maintain time-stamped event logs in light-weight formats which can be aggregated into fleet-level system event logs (SELs) and verbose formats which aid in triaging unexpected link incidents. Insights from low-level parameters (e.g., electrical eye opening, signal to noise ratio, bit error rate) and high-level parameters (e.g., device temperature, voltage supply levels, link stability) are communicated up to platform-level monitoring software for fleet-level trend analytics.

**RAS.** Our software suite enables RAS capabilities by detecting, reporting, and testing the data and memory links supported by our product families. A system's ability to operate continuously with a certain level of performance, while minimizing time needed to service that system, is a critical aspect of a fleet's TCO. COSMOS software, particularly components running inside the device/module, enable RAS capabilities by detecting, reporting, and (in some cases) injecting errors in the links supported by our products. On-chip data integrity modules check for a variety of error conditions (e.g., data errors in attached memory media, errors in PCIe/CXL traffic, errors in on-chip memory), and COSMOS software components running on-chip log/report these errors using standard protocol methods and specialized methods (e.g., out-of-band signaling or customer-specific logging formats). In many cases, on-chip hardware modules can correct for errors to prevent the application performance from being affected. Still, in other cases, COSMOS software running on a system BMC/SMC can be used to trigger error injection for the purposes of testing system-level error handling and reporting mechanisms or to measure link-level margin.

Specific capabilities enabled by our COSMOS software suite include:

- Monitoring of temperature, voltage, current, and overall signal integrity performance;
- Tracking health metrics including signal to noise ratio, eye metrics, and adaptation parameters;
- Threshold checks so the affected system can shut down if the temperature exceeds a set limit;
- Intelligent analytics allowing algorithms to predict failures before they happen;
- Deep diagnostics during the qualification phase to accelerate triage and debug cycles;
- Thorough testing during the manufacturing phase to detect issues earlier and enable the deployment of purpose-built manufacturing test tools that help reduce testing time to increase manufacturing capacity;
- Detailed monitoring and logging during the production phase to monitor the overall health of server fleets, which can be used to detect degrading cables and cables that are not fully connected, thereby increasing uptime for the data center; and
- Security features which can help prevent malicious attacks of unauthorized firmware loading, module diagnostics access, and configurations.

### **Ecosystem and Customers**

Our customers include major hyperscalers, leading AI accelerator vendors (including GPU vendors), and system OEMs. We collaborate closely with our customers' manufacturing and design partners, our ecosystem partners, and, importantly, directly with our customers. For instance, we have developed multiple reference designs with different processor vendors.

We engage with our customers and data center infrastructure suppliers through our Interop Lab, where industry participants work together to establish compatibility, and stress-test products early in their product development process and prior to large-scale deployments. These tests validate performance and interoperability between our connectivity products and other data center infrastructure suppliers' products in real-world scenarios to minimize interoperation risk, reduce system development costs, lower unplanned downtime, and accelerate time-to-market. We enhance the value of our platform with our Interop Lab and by providing early interoperability reports with other data center infrastructure suppliers.

We sell our products directly to our customers and through distributors. Our distributors are primarily focused on fulfillment and logistical purposes, rather than selling, marketing, or providing technical support for our products. Our customers are closely involved in the design and often dictate the sourcing decisions for the systems that incorporate our products. They often engage third party contract manufacturers and design partners to manufacture their systems.

### **Sales and Marketing**

Our sales and marketing strategy is to maintain a deep understanding of our customers' needs and to design products that are specifically tailored to each customer's unique requirements. Our deep market knowledge, successful execution track record, and customer trust allow us to identify opportunities for new product design wins as well as for our product roadmap.

We sell and support our products globally through our direct sales force and field applications engineering ("FAE") team, which provides customers with on-site technical resources as required. Our FAE teams are located near customer R&D sites in North America, Asia, and Israel. Our field teams are internally supported by product applications engineers, marketing, and business development teams in North America, Asia, and Israel. We also utilize distributor partners to sell our products.

## **Manufacturing and Suppliers**

We use third parties to manufacture our products which include ICs, boards, and modules. The manufacturing process is subject to extensive testing and verification. We use a fabless manufacturing model and partner with TSMC to fabricate all of our ICs. We use Advanced Semiconductor Engineering and Amkor Technologies to assemble, package, and test our ICs. We also rely on a small, limited number of other manufacturing partners for our modules, boards, and IC substrates.

We are committed to supplying the highest quality devices to meet the most stringent demands of the world's largest hyperscalers. As a result, our supply chain is optimized for quality and for rapid high-volume increases in production.

It is important that our products meet and exceed the Joint Electron Device Engineering Council ("JEDEC") specifications that define the methodology for reliability testing and qualification of electrical components. Our quality management includes high production test coverage and full product traceability. We have a dedicated quality team which allows us to continuously monitor our customers' feedback and improve our product quality by incorporating that feedback into our designs. Our partners and suppliers are committed to complying with Registration, Evaluation, Authorization, and Restriction of Chemicals ("REACH"), Restriction of Hazardous Substances Directive ("RoHS"), and industry standards. We are focused on sourcing components and materials that lessen our environmental footprint.

## **Research and Development**

We believe our cloud-based approach to research and development is a valuable competitive strength. We use the cloud to both design new products and improve upon existing products. By harnessing the scale of cloud computing, we accelerate the speed of our research and development efforts, which in turn allows us to get to market faster and more efficiently. We partner with Electronic Design Automation ("EDA") tool providers to run physical design and development flows in the cloud. With this approach, we can quickly simulate thousands of regressions in parallel with the most up to date and high-performance servers. This enables us to significantly increase our design verification iterations, leading to high quality tapeouts and an overall expedited development schedule.

Our research and development efforts focus on connectivity infrastructure for high-performance data center applications. We have committed, and intend to continue to commit, significant financial and other resources to technology and product innovation and development. We invest heavily in a global team of highly skilled engineers, with dedicated research and development offices in United States, Canada, and Israel.

## **Intellectual Property**

Our commercial success depends in part on our ability to obtain and maintain intellectual property protection for our brand, products and technology, defend and enforce our intellectual property rights, preserve the confidentiality of our trade secrets, operate our business without infringing, misappropriating, or otherwise violating the intellectual property or proprietary rights of third parties and prevent third parties from infringing, misappropriating, or otherwise violating our intellectual property rights. We rely on a combination of intellectual property rights, including patents, copyrights, trademarks, trade secrets, and contractual protections, to protect our core technology.

As of November 1, 2023, we owned seven issued patents and 21 pending patent applications in the United States. Our issued patents and pending patent applications generally relate to interconnect and memory control technology, and printed circuit board and package designs. These issued patents, and any patents granted from our pending patent applications, are expected to expire between 2039 and 2043, without taking potential patent term extensions or adjustments into account. We routinely review our development efforts to assess the existence and patentability of new inventions.

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The term of individual patents depends upon the legal term for patents in the countries in which they are granted. In the United States, the patent term is generally 20 years from the earliest claimed filing date of a non-provisional patent application. In the United States, a patent's term may, in certain cases, be lengthened by patent term adjustment, which compensates a patentee for administrative delays by the United States Patent and Trademark Office in examining and granting a patent. It may also be shortened if a patent is terminally disclaimed over a commonly owned patent or a patent naming a common inventor and having an earlier expiration date. Although we intend to protect our rights vigorously, there can be no assurance that such measures will be successful. See the section titled "Risk Factors—Our failure to protect our intellectual property rights adequately could impair our ability to compete effectively or to defend ourselves from litigation, which could harm our business, financial condition, and results of operations."

Moreover, we rely, in part, on trade secrets to protect aspects of our business that are not amenable to, or that we do not consider appropriate for, patent protection. However, trade secrets can be difficult to protect. While we take commercially reasonable steps to protect and maintain our trade secrets, including by entering into confidentiality agreements with our employees, consultants, and contractors and by maintaining physical security of our premises and physical and electronic security of our information technology systems, such measures may not prove to be adequate and there may not be any available remedies. In addition, our trade secrets may otherwise become known or be independently discovered by competitors or others.

We also protect our brand through common law trademark protections and trademark registrations. As of November 1, 2023, we owned one trademark registration for the "ASTERA LABS" mark in the United States.

## **Competition**

There are several barriers to entering the cloud and AI infrastructure connectivity market. Meeting the quality standards and production schedules of the world's leading hyperscalers and data center infrastructure ecosystem technology providers requires a deep understanding of and integration with each of their individual cloud scale architecture requirements and objectives.

We offer a differentiated and holistic Intelligent Connectivity Platform purpose-built for cloud and AI infrastructure workloads. Our Aries product family primarily competes with products offered by Montage Technology and Parade Technologies, Ltd. Our Taurus product family primarily competes with products offered by Broadcom Inc., Credo Technology Group Holding Ltd., and Marvell Technology, Inc. Our Leo product family primarily competes with products offered by Marvell Technology, Inc., Microchip Technology Inc., Montage Technology, and Rambus Inc.

The principal competitive factors in our market include:

- Ability to provide a complete platform coupled with software and interoperability reports that ensure ease of integration and customer adoption;
- Product performance in terms of high data throughput, low latency connectivity, robust signal integrity to overcome extended channel insertion loss, and scalable memory expansion;
- Customization to support the specific requirements of each hyperscaler throughout the lifecycle of their infrastructure;
- Interoperability with major host processors and endpoint devices to ensure seamless system operation;
- Near-zero defect tolerance along with stringent qualification processes meeting industry standards and the specific customer requirements;
- Server-grade RAS;
- Sophisticated link telemetry features that enable signal monitoring at scale;

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- Ease of making software updates to products to ensure regular software suite enhancements; and
- Ability to deliver products at large volumes in a timely manner to the quality standards required by our customers.

### **Human Capital**

As of November 1, 2023, we had a total of 226 employees located in five countries, 168 of our employees are located in the United States, 29 are located in Canada, 10 are located in China, 7 are located in Israel, and 12 are located in Taiwan. 225 of our employees are full-time employees. In China, we use a contractor to source our employees, though we consider them to be full-time employees. We also supplement our workforce with additional contractors and consultants.

To our knowledge, none of our employees are represented by a labor union or covered by a collective bargaining agreement. We have not experienced any work stoppages, and we consider our relations with our employees to be good. Our human capital resource objectives include, as applicable, identifying, recruiting, retaining, incentivizing, and integrating our existing and new employees. The principal purposes of our equity incentive plans are to attract, retain, and reward personnel through the granting of share-based compensation awards in order to increase stockholder value and the success of our company by motivating such individuals to perform to the best of their abilities and achieve our objectives.

### **Facilities**

Our corporate headquarters is located in Santa Clara, California, where we currently lease approximately 33,157 square feet for office space, research and development, and testing, pursuant to a lease agreement that expires in April 2025. We also lease additional facilities in Canada for research and development, in China for local customer support and sales, in Israel for research and development and local customer support and sales, and in Taiwan for customer support and sales.

We believe that our facilities are suitable to meet our current needs. We intend to expand our facilities or add new facilities as we grow, and we believe that suitable additional or alternative space will be available on commercially reasonable terms as needed to accommodate any such growth.

### **Government Regulation**

We are subject to the laws and regulations of various jurisdictions and governmental agencies affecting our operations and the sale of our products in areas including, but not limited to: intellectual property; tax; import and export requirements; anti-corruption; economic and trade sanctions; national security and foreign investment; foreign exchange controls and cash repatriation restrictions; data privacy and security requirements (such as the CCPA); competition; advertising; employment; product regulations; environment, health and safety requirements; and consumer laws. To date, costs and accruals incurred to comply with these governmental regulations have not been material to our capital expenditures and results of operations. Although there is no assurance that existing or future governmental laws and regulations applicable to our operations and the sale of our products will not have a material adverse effect on our capital expenditures, results of operations, and competitive position, we do not currently anticipate material expenditures for government regulations. Nonetheless, we believe that global trade regulations could potentially have a material impact on our business.

As a global company, the import and export of our products and technology are subject to laws and regulations including international treaties, U.S. export controls and sanctions laws, customs regulations, and local trade rules around the world. The scope, nature, and severity of such controls varies widely across different countries and may change frequently over time. Such laws, rules, and regulations may delay the introduction of some of our products or impact our competitiveness through restricting our ability to do business in certain places or with certain entities and individuals. For example, the U.S. Department of Commerce continues to add Chinese firms to the Entity List. These export restrictions, which would require that we obtain licenses from the



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U.S. Department of Commerce to allow us to export products to such listed firms, will likely limit or prevent us from doing business with certain potential customers or potential suppliers. These restrictive governmental actions and any similar measures that may be imposed on U.S. companies by other governments, especially in light of ongoing trade tensions with China, could limit our ability to conduct business globally.

See the section titled “Risk Factors” for additional information regarding risks we face related to government regulation.

**Legal Proceedings**

We are not currently a party to any material pending legal proceedings. From time to time, we may be subject to legal proceedings and claims arising in the ordinary course of business. The results of any current or future litigation cannot be predicted with certainty, and regardless of the outcome, litigation can have an adverse impact on us because of defense and settlement costs, diversion of management resources, and other factors.

## MANAGEMENT

### Executive Officers and Directors

The following table provides information regarding our executive officers and directors as of the date of this prospectus:

| <u>Name</u>                    | <u>Age</u> | <u>Position</u>  |
|--------------------------------|------------|--|
| <i>Executive Officers:</i>     |            |  |
| Jitendra Mohan                 | 50         | Co-Founder, Chief Executive Officer, and Director            |
| Sanjay Gajendra                | 48         | Co-Founder, President, Chief Operating Officer, and Director |
| Michael Tate                   | 57         | Chief Financial Officer                                      |
| Philip Mazzara                 | 45         | General Counsel and Secretary                                |
| <i>Non-Employee Directors:</i> |            |  |
| Manuel Alba                    | 68         | Chair  |
| Stefan Dyckerhoff              | 51         | Director   |
| Michael Hurlston               | 57         | Director   |
| Jack Lazar                     | 58         | Director   |

- (1) Member of the audit committee.
- (2) Member of the compensation committee.
- (3) Member of the nominating and corporate governance committee.

Each executive officer serves at the discretion of our board of directors and holds office until his successor is duly elected and qualified or until his earlier resignation or removal. There are no family relationships among any of our directors or executive officers.

### *Executive Officers*

**Jitendra Mohan** is a co-founder of Astera Labs, and has served as our Chief Executive Officer and as a member of our board of directors since November 2017, and served as our President from November 2017 to November 2023. Prior to founding Astera Labs, Mr. Mohan served as Product Line (General) Manager at Texas Instruments Inc. (Nasdaq:TXN), a semiconductor company, from March 2012 to October 2017, and at National Semiconductor Corporation (NYSE:NSM), a semiconductor company, from June 1996 to March 2012 in various technical roles, including most recently as a Design Director. Mr. Mohan holds a Bachelor of Technology degree in Electrical Engineering from Indian Institute of Technology, Bombay, and a Master of Science degree in Electrical Engineering from Stanford University. We believe that Mr. Mohan is qualified to serve as a member of our board of directors because of his knowledge of our company and our business, his experience building and leading our company and his perspective into corporate matters as our Chief Executive Officer.

**Sanjay Gajendra** is a co-founder of Astera Labs, and has served as our Chief Operating Officer and as a member of our board of directors since November 2017, and as President since November 2023, and served as our Chief Financial Officer and Treasurer from November 2017 to July 2020. Prior to founding Astera Labs, Mr. Gajendra served as Product Line (General) Manager at Texas Instruments Inc. from July 2014 to October 2017 and a Director of Product Management from January 2012 to June 2014, a Product Manager at National Semiconductor Corporation from June 2006 to December 2011, a Principal Software Engineer from May 2000 to June 2006, and a Senior Software Engineer at Wipro Limited (NYSE:WIT), a consulting company, from September 1996 to February 2000. Mr. Gajendra holds a Master of Engineering degree in Engineering Management from University of Colorado Boulder. We believe that Mr. Gajendra is qualified to serve as a member of our board of directors because of his knowledge of our company and our business, his experience building and leading our company and his perspective into corporate matters as our Chief Operating Officer.

**Michael Tate** has served as our Chief Financial Officer and Treasurer since July 2020. Prior to joining us, Mr. Tate served as an investor and advisor for early stage companies from January 2015 to July 2020. Prior to this time, Mr. Tate served as the Chief Financial Officer at Annapurna Labs, a microelectronics company, from June 2014 to January 2015, and Vice President of Finance and Chief Financial Officer of NetLogic MicroSystems, Inc. (Nasdaq:NETL), a semiconductor company, from July 2007 to February 2012. Additionally, Mr. Tate served in various roles at Marvell Technology Inc. (Nasdaq:MRVL), a semiconductor company, from January 2001 to July 2007, including most recently as Vice President and Interim Chief Financial Officer and in various roles at Galileo Technology, a semiconductor company, from June 1997 to January 2001, including most recently as Chief Financial Officer. Mr. Tate holds a Bachelor of Science degree in Accounting from California Polytechnic State University, San Luis Obispo.

**Philip Mazzara** has served as our General Counsel and Secretary since September 2022, and previously as our Vice President of Legal from February 2022 to August 2022. Prior to joining Astera Labs, Mr. Mazzara served as Vice President, General Counsel, and Corporate Secretary for Innovium, Inc. from May 2018 to December 2021 and Director of Legal from August 2015 to May 2018. Mr. Mazzara holds a J.D./M.B.A. from Stanford Law School and the Stanford Graduate School of Business.

#### ***Non-Employee Directors***

**Manuel Alba** has served as the Chairman of the Board of Astera Labs' since March of 2018. Mr. Alba currently serves as director of Copperleaf Technologies, a publicly traded Canadian company, where he has served since 2010. Additionally, he serves as director of Kardium (Canada) since 2008, Lightbits (Israel) since 2016, Xsight Labs (Israel) since 2017, and as interim Chairman of Lyte.ai (California) since January 2023. Previously, Mr. Alba was a co-founder, director and President of Galileo Technology (Israel, GALTF) from 1994 to 2001, director of Marvell (MRVL) from 2001 to 2004, director of Pixier (Israel) from 2005 to 2008, director of Annapurna Labs (Israel) from 2011 to 2015, director of Habana Labs (Israel) from 2016 to 2020, and director of Baniyas Labs (Israel) from 2020 to 2022. During his career, Mr. Alba has worked as a design engineer, technical marketing engineer, technology business executive, and active founding investor. Mr. Alba has also served as a board member of various non-profit organizations. Mr. Alba holds a Bachelor of Science degree in Electrical Engineering from the National Polytechnic Institute in Mexico City, Master of Science degrees in Computer Engineering and Engineering Management from the University of Southern California, and a Master of Business Administration from the University of Santa Clara. We believe Mr. Alba is qualified to serve as a member of our board of directors because of his experience as an executive and founder in our industry and his extensive knowledge of our company.

**Stefan Dyckerhoff** has served as a member of Astera Labs' board of directors since November 2019. Mr. Dyckerhoff is currently a Managing Director of Sutter Hill Ventures, a venture capital firm, where he has served since October 2012. Prior to joining Sutter Hill Ventures, Mr. Dyckerhoff served in various roles at Juniper Networks (NYSE:JNPR), a software company, from October 2009 to December 2012, including most recently as the Executive Vice President and General Manager of the Platform Systems Division from March 2011 to December 2012. Additionally, from May 2004 to September 2009, Mr. Dyckerhoff served in various roles at Cisco Systems (Nasdaq:CSCO), a software company, including most recently as Vice President & General Manager of the Edge Routing Business Unit from February 2007 to October 2009. Mr. Dyckerhoff has served as a member of the board of directors of Lacework, a computer and network security company, since January 2015, SiFive, a semiconductor company, since September 2015, Atmosic Technologies, a semiconductor company, since April 2017, and Enfabrica, a computer networking products company, since May 2020. Mr. Dyckerhoff holds a Bachelor of Science in Electrical Engineering and Computer Science from Duke University and a Master of Science in Electrical Engineering from Stanford University. We believe Mr. Dyckerhoff is qualified to serve as a member of our board of directors because of his experience as an investor and executive in our industry.

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**Michael Hurlston** has served as a member of Astera Labs' board of directors since November 2022. Mr. Hurlston is currently the President, Chief Executive Officer, and Director of Synaptics, Inc. (Nasdaq:SYNA), a semiconductor company, where he has served since August 2019. Prior to joining Synaptics, Mr. Hurlston served as the Chief Executive Officer and a member of the Board of Directors of Finisar Corporation, a telecommunications company, from January 2018 to August 2019. Before joining Finisar, Mr. Hurlston served in various roles at Broadcom Limited (Nasdaq:AVGO), a semiconductor company, and its predecessor corporation, from November 2001 to October 2017, including Senior Vice President and General Manager of the Mobile Connectivity Products/Wireless Communications and Connectivity Division from February 2016 to October 2017 and from September 2009 to January 2013 and as Executive Vice President of Sales from January 2013 to February 2016. Additionally, Mr. Hurlston previously held senior marketing and engineering positions at Oren Semiconductor, Inc., Avasec, Integrated Circuit Systems, Inc., MicroPower Systems Inc., Exar Corporation, and IC Works Inc. from 1991 to 2001. Mr. Hurlston has served as a member of the board of directors of Flextronics International, Ltd. (Nasdaq:FLEX), a manufacturing company, since September 2020, and currently serves on the Board of Executive Trustees of the UC Davis Foundation and on the Dean's Executive Committee for the College of Engineering and the Dean's Advisory Counsel for the Graduate School of Management at the University of California, Davis. Mr. Hurlston holds Bachelor of Science and Master of Science degrees in Electrical Engineering and a Master of Business Administration from the University of California, Davis. We believe Mr. Hurlston is qualified to serve as a member of our board of directors because of his experience in our industry and extensive experience in senior leadership positions at technology companies.

**Jack Lazar** has served as a member of Astera Labs' board of directors since December 2022. Since March 2016, Mr. Lazar has served as an independent business consultant. From January 2014 to March 2016, Mr. Lazar served as the Chief Financial Officer of GoPro, Inc. (Nasdaq:GPRO), a provider of wearable and mountable capture devices. From May 2011 to January 2013, Mr. Lazar served as Senior Vice President, Corporate Development at Qualcomm Incorporated (Nasdaq: QCOM) and General Manager of Qualcomm Atheros, Inc., a developer of communications semiconductor solutions. From September 2003 until it was acquired by Qualcomm Incorporated in May 2011, Mr. Lazar served in various positions at Atheros Communications, Inc. (Nasdaq: ATHR), a provider of communications semiconductor solutions, including most recently as Senior Vice President of Corporate Development, Chief Financial Officer, and Secretary. Mr. Lazar has served as a member of the board of directors of ThredUp Inc. (Nasdaq:TDUP), an online marketplace for secondhand clothing, since June 2017, Resideo Technologies, Inc. (NYSE:REZI), a provider of comfort and security solutions, since September 2018, Box, Inc. (NYSE:BOX), an enterprise cloud content and file sharing provider, since March 2020, GlobalFoundries, Inc. (Nasdaq:GFS), a semiconductor manufacturing company, since July 2021. Mr. Lazar has a Bachelor of Science in Commerce with an emphasis in Accounting from Santa Clara University. We believe Mr. Lazar is qualified to serve as a member of our board of directors because of his experience in our industry and his extensive experience as an executive and board member of publicly traded technology companies.

### **Code of Conduct**

Our board of directors have adopted a code of conduct that applies to all of our employees, officers and directors, including our Chief Executive Officer, Chief Financial Officer, and other executive and senior financial officers. The full text of our code of business conduct will be posted on the investor relations page on our website upon the completion of this offering. We intend to disclose any amendments to our code of conduct, or waivers of its requirements, on our website or in filings under the Exchange Act.

### **Board of Directors**

Our business and affairs are managed under the direction of our board of directors. The number of directors will be fixed by our board of directors, subject to the terms of our second amended and restated certificate of incorporation and second amended and restated bylaws that will become effective immediately prior to the completion of this offering. Our board of directors consists of seven directors, of whom will qualify as "independent" under listing standards.

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In accordance with our second amended and restated certificate of incorporation and our second amended and restated bylaws, immediately after the completion of this offering our board of directors will be divided into three classes with staggered three-year terms. Only one class of directors will be elected at each annual meeting of our stockholders, with the other classes continuing for the remainder of their respective three-year terms. Our directors will be divided among the three classes as follows:

- the Class I directors will be \_\_\_\_\_ and \_\_\_\_\_, and their terms will expire at the first annual meeting of stockholders after the completion of this offering;
- the Class II directors will be \_\_\_\_\_ and \_\_\_\_\_, and their terms will expire at the second annual meeting of stockholders after the completion of this offering; and
- the Class III directors will be \_\_\_\_\_ and \_\_\_\_\_, and their terms will expire at the third annual meeting of stockholders after the completion of this offering.

Each director's term will continue until the election and qualification of his or her successor, or his or her earlier death, resignation, or removal. Any increase or decrease in the number of directors will be distributed among the three classes so that, as nearly as possible, each class will consist of one-third of the directors.

This classification of our board of directors may have the effect of delaying or preventing changes in control of our company.

### **Director Independence**

Our board of directors has undertaken a review of the independence of each director. Based on information provided by each director concerning his or her background, employment, and affiliations, our board of directors has determined that \_\_\_\_\_ does not have a relationship that would interfere with the exercise of independent judgment in carrying out the responsibilities of a director and that each of these directors is "independent" as that term is defined under the applicable rules and regulations of the SEC and the listing standards of \_\_\_\_\_. In making these determinations, our board of directors considered the current and prior relationships that each non-employee director has with our company and all other facts and circumstances our board of directors deemed relevant in determining their independence, including the beneficial ownership of our capital stock by each non-employee director, and the transactions involving them described in the section titled "Certain Relationships and Related Party Transactions."

### **Committees of the Board of Directors**

Our board of directors has established an audit committee, a compensation committee, and a nominating and corporate governance committee, and may establish other committees from time to time. The composition and responsibilities of each of the committees of our board of directors is described below. Members will serve on these committees until their resignation or until as otherwise determined by our board of directors.

#### ***Audit Committee***

Our audit committee consists of \_\_\_\_\_ and \_\_\_\_\_, with \_\_\_\_\_ serving as chair. The composition of our audit committee meets the requirements for independence under current \_\_\_\_\_ listing standards and SEC rules and regulations. Each member of our audit committee meets the financial literacy requirements of the \_\_\_\_\_ listing standards. In addition, our board of directors has determined that \_\_\_\_\_ is an audit committee financial expert within the meaning of Item 407(d) of Regulation S-K under the Securities Act. Our audit committee will, among other things, be responsible for:

- selecting a qualified firm to serve as the independent registered public accounting firm to audit our financial statements;

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- helping to ensure the independence and performance of the independent registered public accounting firm;
- discussing the scope and results of the audit with the independent registered public accounting firm, and review, with management and the independent registered public accounting firm, our interim and year-end results of operations;
- developing procedures for employees to submit concerns anonymously about questionable accounting or audit matters;
- reviewing our financial statements and our critical accounting policies and practices;
- reviewing our quarterly earnings press releases and financial information and earnings guidance provided to analysis and rating agencies;
- reviewing the adequacy of our internal controls;
- reviewing our policies on risk assessment and risk management;
- reviewing related-party transactions;
- approving or, as required, pre-approving, all audit and all permissible non-audit services to be performed by the independent registered public accounting firm; and
- overseeing the performance and independence of our internal audit function.

Upon completion of this offering, our audit committee will operate under a written charter, to be effective prior to the completion of this offering, that satisfies the applicable rules of the SEC and the listing standards of

### *Compensation Committee*

Our compensation committee consists of \_\_\_\_\_ and \_\_\_\_\_, with \_\_\_\_\_ serving as chair. The composition of our compensation committee meets the requirements for independence under \_\_\_\_\_ listing standards and SEC rules and regulations. Each member of the compensation committee is also a non-employee director, as defined in Rule 16b-3 promulgated under the Exchange Act. The purpose of our compensation committee is to discharge the responsibilities of our board of directors relating to compensation of our executive officers and non-employee directors. Our compensation committee will, among other things, be responsible for:

- reviewing, approving, and determining, or making recommendations to our board of directors regarding, the compensation of our executive officers, including any long-term incentive components of our compensation programs, any employment agreements, severance arrangements, change in control agreements or provisions, and any special or supplemental benefits;
- reviewing and making recommendations to the board of directors regarding the compensation of non-employee directors;
- approving the retention of compensation consultants or other advisers;
- administering our equity-based plans;
- reviewing and approving, or making recommendations to our board of directors regarding, incentive compensation and equity-based plans; and
- overseeing administration of all incentive compensation and equity-based plans for our employees.

Our compensation committee will operate under a written charter, to be effective prior to the completion of this offering, that satisfies the applicable rules of the SEC and the listing standards of

### ***Nominating and Corporate Governance Committee***

Our nominating and corporate governance committee consists of \_\_\_\_\_ and \_\_\_\_\_, with \_\_\_\_\_ serving as chair. The composition of our nominating and corporate governance committee meets the requirements for independence under \_\_\_\_\_ listing standards and SEC rules and regulations. Our nominating and corporate governance committee will, among other things, be responsible for:

- identifying, evaluating, and selecting, or making recommendations to our board of directors regarding, nominees for election to our board of directors and its committees;
- evaluating the performance of our board of directors, its committees, and management;
- reviewing developments in corporate governance practices;
- evaluating the adequacy of our corporate governance practices; and
- developing and making recommendations to our board of directors regarding corporate governance guidelines and matters.

The nominating and corporate governance committee will operate under a written charter, to be effective prior to the completion of this offering, that satisfies the applicable listing requirements and rules of \_\_\_\_\_.

### **Role of Board of Directors in Risk Oversight Process**

Our board of directors has responsibility for the oversight of our risk management processes and, either as a whole or through its committees, regularly discusses with management our major risk exposures, their potential impact on our business, and the steps we take to manage them. The risk oversight process includes receiving regular reports from board committees and members of senior management to enable our board of directors to understand our risk identification, risk management, and risk mitigation strategies with respect to areas of potential material risk, including operations, finance, legal, regulatory, cybersecurity, strategic, and reputational risk.

### **Compensation Committee Interlocks and Insider Participation**

None of the members of our compensation committee is, or has been, an officer or employee of our company. None of our executive officers currently serves, or in the past year has served, as a member of the board of directors or compensation committee of any entity that has one or more executive officers serving on our board of directors or compensation committee.

### **Non-Employee Director Compensation**

#### **2022 Director Compensation Table**

The following table presents the total compensation for each person who served as a non-employee director of our board of directors during the year ended December 31, 2022 (“Fiscal Year 2022”). Other than as set forth in the table and described more fully below, we did not pay any compensation, make any equity awards or non-equity awards to, or pay any other compensation to any of the non-employee members of our board of directors in Fiscal Year 2022 for their services as members of the board of directors. Messrs. Mohan and Gajendra served as members of our board of directors, as well as serving as employees, and were not separately compensated for their services as members of the board of directors. The compensation paid to Messrs. Mohan and Gajendra is reported in the “Executive Compensation—2022 Summary Compensation Table” below.

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| <u>Name</u>              | <u>Stock Awards (\$)(1)</u> | <u>Total (\$)</u> |
|--------------------------|-----------------------------|-------------------|
| Manuel Alba (2)          | —                           | —                 |
| Stefan Dyckerhoff (2)    | —                           | —                 |
| Michael Hurlston (3)     | 1,064,000(4)                | 1,064,000         |
| Alexis Black Bjorlin (5) | 1,064,000(6)                | 1,064,000         |
| Jack Lazar (7)           | 1,649,200(8)                | 1,649,200         |

- (1) The amounts reported represent the aggregate grant date fair value of the restricted stock units awarded to the directors during Fiscal Year 2022, calculated in accordance with Financial Accounting Standards Board (“FASB”) ASC Topic 718. Such grant date fair value does not take into account any estimated forfeitures. The assumptions used in calculating the grant date fair value of the restricted stock units reported in this column are set forth in Note 1 and Note 10 to our consolidated financial statements included elsewhere in this prospectus. The amount reported in this column reflects the accounting cost for these restricted stock units and does not correspond to the actual economic value that may be received by the directors upon the vesting or settlement of the restricted stock units or any sale of the shares.
- (2) As of December 31, 2022, Messrs. Alba and Dyckerhoff did not hold any outstanding stock or option awards.
- (3) As of December 31, 2022, Mr. Hurlston held 200,000 RSUs and an option to purchase 80,000 shares of our common stock.
- (4) In December 2022, Mr. Hurlston was granted 200,000 RSUs, which are subject to both time- and liquidity-based vesting conditions. The time-based condition is satisfied as follows: the RSUs vest in twenty (20) equal quarterly installments following November 15, 2022, subject to Mr. Hurlston’s continued service with us on each applicable vesting date. 100% of the RSUs shall accelerate upon a change in control of the company. The liquidity-based condition will be satisfied in connection with this offering.
- (5) As of December 31, 2022, Ms. Bjorlin held 200,000 RSUs. Ms. Bjorlin resigned from our board of directors effective as of December 3, 2023, and upon such resignation, forfeited all of her RSUs which have not met the applicable time-based vesting condition in her applicable award documents.
- (6) In December 2022, Ms. Bjorlin was granted 200,000 RSUs, which are subject to both time- and liquidity-based vesting conditions. The time-based condition is satisfied as follows: the RSUs vest in twenty (20) equal quarterly installments following November 15, 2022, subject to Ms. Bjorlin’s continued service with us on each applicable vesting date. The RSUs vest in full upon a change in control of the company. The liquidity-based condition will be satisfied in connection with this offering.
- (7) As of December 31, 2022, Mr. Lazar held 310,000 RSUs.
- (8) In December 2022, Mr. Lazar was granted 200,000 RSUs, which are subject to both time- and liquidity-based vesting conditions. The time-based condition is satisfied as follows: the RSUs vest in twenty (20) equal quarterly installments following November 15, 2022, subject to Mr. Lazar’s continued service with us on each applicable vesting date. The RSUs vest in full upon a change in control of the company. The liquidity-based condition will be satisfied in connection with this offering.

At the same time, Mr. Lazar was granted an additional 110,000 RSUs, which are subject to both time- and liquidity-based vesting conditions. The time-based condition is satisfied as follows: the RSUs vest in sixteen (16) equal quarterly installments commencing on February 15, 2024, in each case, subject to Mr. Lazar’s continued service with us on each applicable vesting date. The RSUs vest in full upon a change in control of the company. The liquidity-based condition will be satisfied in connection with this offering.

In connection with this offering, we intend to adopt the non-employee director compensation policy described below, which is designed to align compensation with our business objectives and the creation of stockholder value, while enabling us to attract, retain, incentivize and reward directors who contribute to our long-term success.



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Under the contemplated policy, our non-employee directors will be eligible to receive cash retainers (which will be prorated for partial years of service) and equity awards as set forth below:

|   | <b>Annual Retainer</b> |
|---|------------------------|
| <b>Board of Directors:</b>                            |                        |
| Members   | \$                     |
| Additional retainer for non-executive chair           | \$                     |
| <b>Audit Committee:</b>                               |                        |
| Members (other than chair)                            | \$                     |
| Retainer for chair                                    | \$                     |
| <b>Compensation Committee:</b>                        |                        |
| Members (other than chair)                            | \$                     |
| Retainer for chair                                    | \$                     |
| <b>Nominating and Corporate Governance Committee:</b> |                        |
| Members (other than chair)                            | \$                     |
| Retainer for chair                                    | \$                     |

In addition, the non-employee director compensation policy will provide that, upon initial election to our board of directors, each non-employee director will be granted an equity award with a fair market value of \$ /an option to purchase shares of our common stock (“Initial Grant”). The Initial Grant will vest in equal installments on the first, second, and third anniversaries of the grant date, subject to continued service as a director through the applicable vesting date. Furthermore, on the date of each annual meeting of stockholders following the completion of this offering, each non-employee director who continues as a non-employee director following such meeting will be granted an equity award with a fair market value of \$ /option to purchase shares of our common stock (“Annual Grant”). The Annual Grant will vest in full on the earlier of (i) the first anniversary of the grant date or (ii) our next annual meeting of stockholders, subject to continued service as a director through the applicable vesting date. Such awards are subject to full accelerated vesting upon a change in control of the company.

The aggregate amount of compensation, including both equity compensation and cash compensation, paid to any non-employee director in a calendar year period will not exceed \$ in the first calendar year such individual becomes a non-employee director and \$ in any other calendar year.

We will reimburse all reasonable out-of-pocket expenses incurred by directors for their attendance at meetings of the board of directors or any committee thereof.

Employee directors will receive no additional compensation for their service as a director.

### **Rule 10b5-1 Sales Plans**

Our directors and executive officers may adopt written plans, known as Rule 10b5-1 plans, in which they will contract with a broker to buy or sell shares of our common stock on a periodic basis. Under a Rule 10b5-1 plan, a broker executes trades pursuant to parameters established by the director or executive officer when entering into the plan, without further direction from them. The director or executive officer may amend a Rule 10b5-1 plan in some circumstances and may terminate a plan at any time. Our directors and executive officers also may buy or sell additional shares outside of a Rule 10b5-1 plan when they are not in possession of material nonpublic information subject to compliance with the terms of our insider trading policy. Prior to days after the date of this offering, subject to early termination, the sale of any shares under Rule 10b5-1 plan would be subject to the lock-up agreement that the director or executive officer has entered into with the underwriters.

## EXECUTIVE COMPENSATION

The following discussion contains forward looking statements that are based on our current plans, considerations, expectations, and determinations regarding future compensation programs. The actual amount and form of compensation and the compensation policies and practices that we adopt in the future may differ materially from currently planned programs as summarized in this discussion.

As an emerging growth company, we have opted to comply with the executive compensation disclosure rules applicable to “smaller reporting companies,” as such term is defined in the rules promulgated under the Securities Act. The compensation provided to our named executive officers for the fiscal year ended December 31, 2022 is detailed in the 2022 Summary Compensation Table and accompanying footnotes and narrative that follow. Our named executive officers are:

- Jitendra Mohan, our Co-Founder and Chief Executive Officer;
- Sanjay Gajendra, our Co-Founder, President, and Chief Operating Officer; and
- Philip Mazzara, our General Counsel and Secretary.

To date, the compensation of our named executive officers has consisted of a combination of base salary, cash incentive compensation, and long-term incentive compensation, as more fully described below. Our named executive officers, like all full-time employees, are eligible to participate in our health and welfare benefit plans. As we transition from a private company to a publicly traded company, we intend to evaluate our compensation values and philosophy and compensation plans and arrangements as circumstances require.

### 2022 Summary Compensation Table

The following table presents information regarding the total compensation awarded to, earned by, and paid to our named executive officers for services rendered to us in all capacities in Fiscal Year 2022.

| <u>Name and Principal Position</u>                                     | <u>Fiscal Year</u> | <u>Salary (\$)(1)</u> | <u>Bonus (\$)(2)</u> | <u>Stock Awards (\$)(3)</u> | <u>Option Awards (\$)(4)</u> | <u>All Other Compensation (\$)(5)</u> | <u>Total (\$)</u> |
|--|--------------------|-----------------------|----------------------|-----------------------------|------------------------------|---------------------------------------|-------------------|
| Jitendra Mohan,<br><i>Chief Executive Officer</i>                      | 2022               | 300,000               | 120,000              | —                           | —                            | 12,103                                | 432,103           |
| Sanjay Gajendra,<br><i>President, Chief Operating Officer</i>          | 2022               | 300,000               | 120,000              | —                           | —                            | 2,741,618                             | 3,161,618         |
| Philip Mazzara,<br><i>General Counsel and Secretary</i> <sup>(6)</sup> | 2022               | 268,182               | 110,250              | 363,612                     | 2,301,303                    | 10,585                                | 3,053,932         |

(1) The amounts reported reflect annual base salaries paid to our named executive officers for Fiscal Year 2022. Mr. Mazzara’s base salary is prorated to reflect his commencement of employment with us in February 2022.

(2) The amounts reported reflect discretionary annual bonuses paid to our named executive officers based on our board of director’s assessment of overall company performance and individual performance for Fiscal Year 2022. Mr. Mazzara’s annual bonus is prorated to reflect his commencement of employment with us in February 2022.

(3) The amounts reported represent the aggregate grant date fair value of the restricted stock units granted to our named executive officer during Fiscal Year 2022, calculated in accordance with FASB, ASC Topic 718. Such grant date fair value does not take into account any estimated forfeitures. The assumptions used in calculating the grant date fair value of the restricted stock units reported in this column are set forth in Note 1 and Note 10 of our consolidated financial statements appearing elsewhere in this prospectus. The amount reported in this column reflects the accounting cost for the award and does not correspond to the actual economic value that may be received by our named executive officers upon vesting and settlement of the shares of restricted stock units or any sale of the shares.

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- (4) The amounts reported represent the aggregate grant date fair value of the options to purchase shares of common stock awarded to our named executive officers during Fiscal Year 2022, calculated in accordance with FASB ASC Topic 718. Such grant date fair value does not take into account any estimated forfeitures. The assumptions used in calculating the grant date fair value of the options reported in this column are set forth in Note 1 and Note 10 of our consolidated financial statements included elsewhere in this prospectus. The amount reported in this column reflects the accounting cost for the option and does not correspond to the actual economic value that may be received by our named executive officers upon the exercise of the options or any sale of the underlying shares.
- (5) For Messrs. Mohan, Gajendra, and Mazzara, the amounts reported represent 401(k) matching contributions in the amount of \$12,103, \$12,200, and \$10,585, respectively, made by us. For Mr. Gajendra, the amount reported also includes \$2,729,418 that he received in cash in connection with a sale of shares of common stock held by him as discussed in further detail in the section titled “Certain Relationships and Related Party Transactions—2022 Secondary Sales.” Such value reflects the compensatory portion of the proceeds received by Mr. Gajendra in Fiscal Year 2022 in connection with such sales.
- (6) Mr. Mazzara joined us in February 2022.

### ***Narrative Disclosure to the 2022 Summary Compensation Table***

#### ***Base Salaries***

Each of the named executive officers is paid a base salary commensurate with his skill set, experience, performance, role, and responsibilities. The annual base salary in Fiscal Year 2022 for each of Messrs. Mohan, Gajendra, and Mazzara was \$300,000.

#### ***Annual Bonus***

For Fiscal Year 2022, each of our named executive officers was eligible to earn a discretionary annual bonus based on our board of directors’ assessment of overall company performance and individual performance. The target annual bonus in Fiscal Year 2022 for each of Messrs. Mohan, Gajendra, and Mazzara was \$150,000, and the annual bonus amount actually earned for Fiscal Year 2022 is set forth in the “Bonus” column of the Summary Compensation Table.

#### ***Equity Incentive Compensation***

Although we do not have a formal policy with respect to the grant of equity awards to our executive officers, we believe that equity awards can provide our executives with a link to our long-term performance, create an ownership culture and help to align the interests of our executives and our stockholders. During Fiscal Year 2022, we granted Mr. Mazzara (i) an option to acquire 500,000 shares of our common stock and (ii) 61,947 restricted stock units, which generally vest over a period of four (4) years, subject to Mr. Mazzara’s continued service with us on each applicable vesting date. For additional description of the awards granted to our named executive officers, please see “—Outstanding Equity Awards at 2022 Fiscal Year-End” below.

#### ***Offer Letters with Our Named Executive Officers***

We have entered into offer letters with our named executive officers, the material terms of which are summarized below. All our named executive officers are subject to our standard confidential information and invention assignment agreement. In connection with this offering, we may enter into revised employment agreements with our named executive officers.

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### *Jitendra Mohan*

We entered into an offer letter with Mr. Mohan, dated March 13, 2018. Mr. Mohan's offer letter provides for at-will employment, an initial annual base salary of \$160,000, a restricted stock grant for 19,000,000 shares of our common stock, and eligibility to participate in any benefit plans generally made available to employees.

### *Sanjay Gajendra*

We entered into an offer letter with Mr. Gajendra, dated March 13, 2018. Mr. Gajendra's offer letter provides for at-will employment, an initial annual base salary of \$160,000, a restricted stock grant for 18,500,000 shares of our common stock, and eligibility to participate in any benefit plans generally made available to employees.

### *Philip Mazzara*

We entered into an offer letter with Mr. Mazzara, dated February 7, 2022, providing for at-will employment. Mr. Mazzara's offer letter provides him with (i) an annual base salary of \$300,000, (ii) eligibility for an annual performance-based target bonus of \$150,000, (iii) an option to purchase 500,000 shares of our common stock, subject to a four-year vesting schedule (iv) eligibility to participate in any benefit plans generally made available to employees, and (v) reimbursement of reasonable business expenses.

## **Outstanding Equity Awards at 2022 Fiscal Year-End**

The following table sets forth information concerning outstanding equity awards held by each of its named executive officers as of December 31, 2022.

| <b>Name</b>     | <b>Grant Date</b>                   | <b>Stock Awards</b>  |  |
|-----------------|-------------------------------------|--|--|
|                 |                                     | <b>Number of Shares or Units of Stock That Have Not Vested (#)</b> | <b>Market Value of Shares or Units of Stock That Have Not Vested (\$)(1)</b> |
| Jitendra Mohan  | —                                   | —  | —  |
| Sanjay Gajendra | —                                   | —  | —  |
| Philip Mazzara  | 03/11/2022(2)(4)<br>8/23/2022(3)(4) | 500,000<br>61,947  | 2,660,000<br>329,558   |

- (1) Amounts reflect the fair value of our common stock of \$5.32 per share as of December 31, 2022, as determined by our board of directors, multiplied by the amount shown in the column for the number of shares that have not vested.
- (2) This award represents unvested shares acquired upon the exercise of a stock option. Such shares are subject to the following vesting schedule: 25% of the shares vest on February 9, 2023, with the remaining shares vesting in 36 equal monthly installments thereafter, subject to Mr. Mazzara's continued service with us on each applicable vesting date.
- (3) The restricted stock units are subject to both time- and liquidity-based vesting conditions. The time-based condition is satisfied as follows: 25% of the restricted stock units vest on August 15, 2023 and the remaining 75% of the restricted stock units vest in twelve (12) equal quarterly installments thereafter, subject to Mr. Mazzara's continued service with us on each applicable vesting date. The liquidity-based condition will be satisfied in connection with this offering.
- (4) Upon a Qualifying Termination (as defined below), Mr. Mazzara is entitled to (A) fifty percent (50%) accelerated vesting of all then unvested equity incentives as of his date of termination, if he has been continuously employed by us for fewer than twenty-four (24) months on the date of termination, or (B) full accelerated vesting of all unvested equity incentives as of his date of termination, if he has been continuously employed by us for twenty-four (24) months or greater on the date of termination, subject, in each case, to Mr. Mazzara's timely execution of a separation agreement including a release in favor of us.

## Employee Benefit and Equity Compensation Plans

### *2024 Stock Option and Incentive Plan*

Our 2024 Plan, was adopted by our board of directors on \_\_\_\_\_, 2024, approved by our stockholders on \_\_\_\_\_, 2024 and will become effective upon the date immediately preceding the date on which the registration statement of which this prospectus is part is declared effective by the SEC. The 2024 Plan will replace the Amended and Restated 2018 Equity Incentive Plan. The 2024 Plan provides flexibility to our compensation committee to use various equity-based incentive awards as compensation tools to motivate our workforce.

We have initially reserved \_\_\_\_\_ shares of our common stock for the issuance of awards under the 2024 Plan (the “Initial Limit”). The 2024 Plan provides that the number of shares reserved and available for issuance under the 2024 Plan will automatically increase on January 1, 2025 and each January 1 thereafter, by \_\_\_\_\_ % of the outstanding number of shares of our common stock on the immediately preceding December 31, or such lesser number of shares as determined by our compensation committee (the “Annual Increase”). The number of shares reserved under the 2024 Plan is subject to adjustment in the event of a stock split, stock dividend or other change in our capitalization.

The shares we issue under the 2024 Plan will be authorized but unissued shares or shares that we reacquire. The shares of common stock underlying any awards under the 2024 Plan that are forfeited, cancelled, held back upon exercise or settlement of an award to satisfy the exercise price or tax withholding, reacquired by us prior to vesting, satisfied without the issuance of stock or are otherwise terminated (other than by exercise) will be added back to the shares of common stock available for issuance under the 2024 Plan.

The maximum aggregate number of shares that may be issued in the form of incentive stock options shall not exceed the Initial Limit, cumulatively increased on January 1, 2025 and on each January 1 thereafter by the lesser of the Annual Increase for such year or \_\_\_\_\_ shares of common stock.

The grant date fair value of all awards made under our 2024 Plan and all other cash compensation paid by us to any non-employee director in any calendar year for services as a non-employee director shall not exceed \$ \_\_\_\_\_; provided, however, that such amount shall be \$ \_\_\_\_\_ for the calendar year in which the applicable non-employee director is initially elected or appointed to the board of directors.

The 2024 Plan will be administered by our compensation committee. Our compensation committee has the full power to select, from among the individuals eligible for awards, the individuals to whom awards will be granted and the number of shares subject to such awards, to make any combination of awards to participants, to accelerate at any time the exercisability or vesting of any award, to impose any limitations and/or vesting conditions on each award and to determine the specific terms and conditions of each award, subject to the provisions of the 2024 Plan. Persons eligible to participate in the 2024 Plan will be those full or part-time officers, employees, non-employee directors and consultants as selected from time to time by our compensation committee in its discretion.

The 2024 Plan permits the granting of both options to purchase common stock intended to qualify as incentive stock options under Section 422 of the U.S. Internal Revenue Code of 1986, as amended (the “Code”), and options that do not so qualify. The option exercise price of each option will be determined by our compensation committee but may not be less than 100% of the fair market value of our common stock on the date of grant unless the option is granted (i) pursuant to a transaction described in, and in a manner consistent with, Section 424(a) of the Code or (ii) to individuals who are not subject to U.S. income tax. The term of each option will be fixed by our compensation committee and may not exceed ten years from the date of grant. Our compensation committee will determine at what time or times each option may be exercised.

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Our compensation committee may award stock appreciation rights subject to such conditions and restrictions as it may determine. Stock appreciation rights entitle the recipient to shares of common stock, or cash, equal to the value of the appreciation in our stock price over the exercise price. The exercise price of each stock appreciation right may not be less than 100% of the fair market value of our common stock on the date of grant unless the stock appreciation right is granted (i) pursuant to a transaction described in, and in a manner consistent with, Section 424(a) of the Code or (ii) to individuals who are not subject to U.S. income tax. The term of each stock appreciation right will be fixed by our compensation committee and may not exceed ten years from the date of grant. Our compensation committee will determine at what time or times each stock appreciation right may be exercised.

Our compensation committee may award restricted shares of common stock and restricted stock units to participants subject to such conditions and restrictions as it may determine. These conditions and restrictions may include the achievement of certain performance goals and/or continued employment with us through a specified vesting period. Our compensation committee may also grant shares of common stock that are free from any restrictions under the 2024 Plan. Unrestricted stock may be granted to participants in recognition of past services or for other valid consideration and may be issued in lieu of cash compensation due to such participant.

Our compensation committee may grant dividend equivalent rights to participants that entitle the recipient to receive credits for dividends that would be paid if the recipient had held a specified number of shares of our common stock.

Our compensation committee may grant cash bonuses under the 2024 Plan to participants, subject to the achievement of certain performance goals.

The 2024 Plan provides that upon the effectiveness of a “sale event,” as defined in the 2024 Plan, an acquirer or successor entity may assume, continue, or substitute outstanding awards under the 2024 Plan. To the extent that awards granted under the 2024 Plan are not assumed or continued or substituted by the successor entity, upon the effective time of the sale event, such awards shall terminate. In such case, except as may be otherwise provided in the relevant award certificate, all awards with time-based vesting, conditions or restrictions shall become fully vested and exercisable or nonforfeitable as of the effective time of the sale event, and all awards with conditions and restrictions relating to the attainment of performance goals may become vested and exercisable or nonforfeitable in connection with a sale event in the administrator’s discretion or to the extent specified in the relevant award certificate. In the event of such termination, individuals holding options and stock appreciation rights (i) may be permitted to exercise such options and stock appreciation rights (to the extent exercisable) within a specified period of time prior to the sale event, or (ii) we may make or provide for a payment, in cash or in kind, to participants holding vested and exercisable options and stock appreciation rights equal to the difference between the per share consideration payable to stockholders in the sale event and the exercise price of the options or stock appreciation rights. In addition, we may make or provide for a payment, in cash or in kind, to participants holding other vested awards.

Our board of directors may amend or discontinue the 2024 Plan and our compensation committee may amend or cancel outstanding awards for purposes of satisfying changes in law or any other lawful purpose but no such action may adversely affect rights under an award without the holder’s consent. Certain amendments to the 2024 Plan require the approval of our stockholders. No awards may be granted under the 2024 Plan after the date that is ten years from the effective date of the 2024 Plan. No awards under the 2024 Plan have been made prior to the date of this prospectus.

### ***Amended and Restated 2018 Equity Incentive Plan***

Our 2018 Plan was originally adopted by our board of directors and stockholders on March 13, 2018, and was most recently amended and approved by our stockholders in . The 2018 Plan provides flexibility to our compensation committee to use various equity-based incentive awards as compensation tools to motivate our workforce.

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We reserved 75,038,229 shares of our common stock for the issuance of awards under the 2018 Plan. The maximum aggregate number of shares that may be issued in the form of incentive stock options cannot exceed 20,000,000 shares of common stock. The number of shares reserved under the 2018 Plan is subject to adjustment in the event of a stock split, stock dividend or other change in our capitalization.

The shares we issue under the 2018 Plan are authorized but unissued shares or shares that we reacquire. The shares of common stock underlying any awards under the 2018 Plan that (i) cease to be subject to issuance upon exercise of an option, other than due to the exercise of such option, (ii) are issued upon exercise of an award but are forfeited or repurchased by us, or (iii) in the case of restricted stock units, are forfeited, canceled, reacquired by us prior to vesting, satisfied without the issuance of stock (including awards settled in cash), or withheld upon settlement of an award to cover any tax withholding or otherwise terminated, will be added back to the shares of common stock available for issuance under the 2018 Plan.

The 2018 Plan is administered by our board or a committee designated by our board to administer the plan. The 2018 Plan's administrator has the full power to select, from among the individuals eligible for awards, the individuals to whom awards will be granted and the number of shares subject to such awards, to make any combination of awards to participants, to accelerate at any time the exercisability or vesting of any award, to impose any limitations and/or vesting conditions on each award and to determine the specific terms and conditions of each award, subject to the provisions of the 2018 Plan. Persons eligible to participate in the 2018 Plan will be those full or part-time officers, employees, non-employee directors and consultants as selected from time to time by the 2018 Plan's administrator in its discretion.

The 2018 Plan permits the granting of both options to purchase common stock intended to qualify as incentive stock options under Section 422 of the Code and options that do not so qualify. The option exercise price of each option will be determined by the 2018 Plan's administrator but may not be less than 100% of the fair market value of our common stock on the date of grant unless the option is granted (i) pursuant to a transaction described in, and in a manner consistent with, Section 424(a) of the Code or (ii) to individuals who are not subject to U.S. income tax. The term of each option will be fixed by the 2018 Plan's administrator and may not exceed ten years from the date of grant. The 2018 Plan's administrator determines at what time or times each option may be exercised.

The 2018 Plan's administrator may award restricted shares of common stock and restricted stock units to participants subject to such conditions and restrictions as it may determine. These conditions and restrictions may include the achievement of certain performance goals and/or continued employment with us through a specified vesting period.

The 2018 Plan provides that in the event of (i) a merger or consolidation in which our company as it currently stands is not the surviving corporation, (ii) a merger in which our company as it currently stands is the surviving corporation but after which our stockholders immediately prior to such merger (other than any stockholder which merges with us in such merger, or which owns or controls another corporation which merges with us in such merger) cease to own their shares or other of our equity interests, or (iii) the sale of all or substantially all of our assets (each, a "Transaction"), an acquirer or successor entity may assume, substitute, convert, or replace outstanding options under the 2018 Plan. To the extent that options granted under the 2018 Plan are not assumed, substituted, converted, or replaced by the acquiring or successor entity, such options will expire, provided that the 2018 Plan's administrator may elect to accelerate the vesting of any or all such outstanding options. Further, such outstanding options may be treated as provided in the applicable agreement or plan of merger, consolidation, dissolution, liquidation, or sale of assets. In the event of the occurrence of any Transaction described above, any outstanding restricted stock units will be treated as provided in the applicable agreement or plan of merger, consolidation, dissolution, liquidation, or sale of assets. Further, the 2018 Plan's administrator may cancel restricted stock units without the participant's consent in exchange for a payment equal to the value of the consideration payable per share pursuant to the Transaction multiplied by the number of shares subject to such restricted stock units held by the applicable participant.

The 2018 Plan’s administrator may amend or discontinue the 2018 Plan, including without limitation amendment of any form of applicable award agreement or instrument to be executed pursuant to the 2018 Plan, but no such action may adversely affect rights under an award without the holder’s consent. Certain amendments to the 2018 Plan require the approval of our stockholders. No awards may be granted under the 2018 Plan after the date that is ten years from the effective date of the 2018 Plan. No awards will be granted under our 2018 Plan following this offering.

### **2024 Employee Stock Purchase Plan**

Our ESPP was adopted by our board of directors on \_\_\_\_\_, 2024, and approved by our stockholders on \_\_\_\_\_, 2024 and will become effective on the date immediately preceding the date on which the registration statement of which this prospectus is part is declared effective by the SEC. The ESPP is intended to qualify as an “employee stock purchase plan” within the meaning of Section 423 of the Code. The ESPP initially reserves and authorizes the issuance of up to a total of \_\_\_\_\_ shares of common stock to participating employees. The ESPP provides that the number of shares reserved and available for issuance will automatically increase on January 1, 2025 and each January 1 thereafter through January 1, 2034, by the least of (i) \_\_\_\_\_ shares of common stock, (ii) \_\_\_\_\_ % of the outstanding number of shares of our common stock on the immediately preceding December 31 or (iii) such lesser number of shares of common stock as determined by the administrator of the ESPP. The number of shares reserved under the ESPP will be subject to adjustment in the event of a stock split, stock dividend or other change in our capitalization.

All employees whose customary employment is for more than \_\_\_\_\_ hours per week and who have completed at least \_\_\_\_\_ months of employment will be eligible to participate in the ESPP. However, any employee who owns 5% or more of the total combined voting power or value of all classes of stock will not be eligible to purchase shares under the ESPP.

We may make one or more offerings each year to our employees to purchase shares under the ESPP. Offerings will usually begin on each \_\_\_\_\_ and \_\_\_\_\_ will continue for six-month periods, referred to as offering periods. Each eligible employee will be able to elect to participate in any offering by submitting an enrollment form at least 15 business days before the relevant offering date.

Each employee who is a participant in the ESPP will be able to purchase shares by authorizing payroll deductions of up to \_\_\_\_\_ % of his or her eligible compensation during an offering period. Unless the participating employee has previously withdrawn from the offering, his or her accumulated payroll deductions will be used to purchase shares of common stock on the last business day of the offering period at a price equal to 85% of the fair market value of the shares on the first business day or the last business day of the offering period, whichever is lower, provided that no more than a number of shares of common stock determined by dividing \$25,000 by the fair market value of the common stock on the first day of the offering may be purchased by any one employee during any offering period. Under applicable tax rules, an employee may purchase no more than \$25,000 worth of shares of common stock, valued at the start of the purchase period, under the ESPP in any calendar year.

The accumulated payroll deductions of any employee who is not a participant on the last day of an offering period will be refunded. An employee’s rights under the ESPP will terminate upon voluntary withdrawal from the plan or when the employee ceases employment with us for any reason.

The ESPP may be terminated or amended by our board of directors at any time. An amendment that increases the number of shares of common stock authorized under the ESPP and certain other amendments will require the approval of our stockholders.



### ***Change of Control Severance Policy for Principal Executive Officers***

In August 2023, our board of directors adopted the Change of Control Severance Policy for Principal Executive Officers (the “Severance Policy”), pursuant to which certain executive officers are eligible for severance upon either a (A) termination by us for any reason other than for “good cause” (as such term is defined in the Severance Policy) or (B) resignation by an eligible executive for “good reason” (as such term is defined in the Severance Policy), in each case, during the period three months prior to or 12 months following a “change of control” (as defined in the Severance Policy) (a “Qualifying Termination”).

Upon a Qualifying Termination, eligible executives are entitled to (i) a lump-sum payment equal to six (6) months of the executive’s base salary in effect on the termination date, (ii) a lump-sum payment equal to fifty percent (50%) of the executive’s annual target bonus, (iii) a lump-sum payment equal to the executive’s target bonus, pro-rated for the number of months employed during the fiscal year prior to the termination date, (iv) up to six (6) months of company-paid COBRA payments equal to the premiums we would have made to provide health insurance to the executive if the executive had remained employed by us, and (v) with respect to equity incentives, (A) fifty percent (50%) accelerated vesting of all then unvested equity awards as of the executive’s date of termination, if executive has been continuously employed by us for fewer than twenty-four (24) months on the date of termination, or (B) full accelerated vesting of all unvested equity awards as of the executive’s date of termination, if executive has been continuously employed by us for twenty-four (24) months or greater on the date of termination, subject, in each case, to the executive’s timely execution of a separation agreement including a release in favor of us.

Additionally, to the extent the parties to the change of control do not provide for the assumption, continuation or substitution of our equity awards, subject to the executive’s continued employment with us through immediately prior to the effective date of such change of control, all equity awards with time-based vesting conditions that are not vested and/or exercisable immediately prior to the effective time of the change of control shall become fully vested and exercisable as of the effective time of the change of control.

The payments and benefits provided under the Severance Policy in connection with a change in control may not be eligible for a federal income tax deduction by us pursuant to Section 280G of the Code. These payments and benefits may also subject an eligible executive to an excise tax under Section 4999 of the Code. If the payments or benefits payable in connection with a change in control would be subject to the excise tax imposed under Section 4999 of the Code, then those payments or benefits will be reduced if such reduction would result in a higher net after-tax benefit to the eligible executive.

### ***Senior Executive Cash Incentive Bonus Plan***

On \_\_\_\_\_, 2024, our board of directors adopted the Senior Executive Cash Incentive Bonus Plan (the “Bonus Plan”). The Bonus Plan provides for cash bonus payments based upon company and individual performance targets established by our compensation committee. The payment targets will be related to financial and operational measures or objectives with respect to our company (the “Corporate Performance Goals”), as well as individual performance objectives.

Our compensation committee may select Corporate Performance Goals from among the following: cash flow (including, but not limited to, operating cash flow and free cash flow); revenue; corporate revenue; earnings before interest, taxes, depreciation, and amortization; net income (loss) (either before or after interest, taxes, depreciation and/or amortization); changes in the market price of our common stock; economic value-added; acquisitions or strategic transactions; operating income (loss); return on capital, assets, equity, or investment; stockholder returns; return on sales; gross or net profit levels; productivity; expense efficiency; margins; operating efficiency; customer satisfaction; working capital; earnings (loss) per share of our common stock; bookings, new bookings or renewals; sales or market shares; number of customers, number of new customers or customer references; operating income and/or net annual recurring revenue, or any other performance goal selected by the compensation committee, any of which may be measured in absolute terms, as compared to any incremental increase, in terms of growth, or as compared to results of a peer group, against the market as a whole, compared to applicable market indices and/or measured on a pre-tax or post-tax basis.

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Each executive officer who is selected to participate in the Bonus Plan will have a target bonus opportunity set for each performance period. The bonus formulas will be adopted in each performance period by the compensation committee and communicated to each executive. The Corporate Performance Goals will be measured at the end of each performance period after our financial reports have been published or such other appropriate time as the compensation committee determines. If the corporate performance goals and individual performance objectives are met, payments will be made as soon as practicable following the end of each performance period, but not later than 74 days after the end of the fiscal year in which such performance period ends. Subject to the rights contained in any agreement between the executive officer and us, an executive officer shall be required to be employed by us on the bonus payment date to be eligible to receive a bonus payment under the Bonus Plan. The Bonus Plan also permits the compensation committee to approve additional bonuses to executive officers in its sole discretion.

### ***401(k) Plan***

We participate in a retirement savings plan, or 401(k) plan, that is intended to qualify for favorable tax treatment under Section 401(a) of the Code, and contains a cash or deferred feature that is intended to meet the requirements of Section 401(k) of the Code. U.S. employees who are at least 18 years of age are generally eligible to participate in the 401(k) plan, subject to certain criteria. Participants may make pre-tax and certain after-tax (Roth) salary deferral contributions to the plan from their eligible earnings up to the statutorily prescribed annual limit under the Code. Participants who are 50 years of age or older may contribute additional amounts based on the statutory limits for catch-up contributions. Participant contributions are held in trust as required by law. An employee's interest in his or her salary deferral contributions is 100% vested when contributed.

**CERTAIN RELATIONSHIPS AND RELATED PARTY TRANSACTIONS**

In addition to the compensation arrangements, including employment, termination of employment and change in control arrangements, and indemnification arrangements discussed, when required, in the sections titled “Management” and “Executive Compensation” and the registration rights described in the section titled “Description of Capital Stock—Registration Rights,” the following is a description of each transaction since January 1, 2020 and each currently proposed transaction in which:

- we have been or are to be a participant;
- the amount involved exceeded or exceeds \$120,000; and
- any of our directors, director nominees, executive officers or beneficial owners of more than 5% of any class of our voting securities, or any immediate family member of, or person sharing the household with, any of these individuals, had or will have a direct or indirect material interest.

**Equity Financings*****Series B Preferred Stock Financing***

In February 2020, in a subsequent closing of our November 2019 Series B Preferred Stock Financing, we sold an aggregate of 12,740,810 shares of preferred stock at a purchase price of \$0.39244 per share, for an aggregate purchase price of approximately \$5.0 million. The following table summarizes purchases of our preferred stock in the November 2019 Series B Preferred Stock Financing by our directors and beneficial owners of more than 5% of our capital stock and their affiliated entities. Other than as set forth below, none of our directors or executive officers purchased shares of our preferred stock in the November 2019 Series B Preferred Stock Financing after January 1, 2020.

| <b>Stockholder</b>                            | <b>Shares of Series B Preferred Stock</b> | <b>Approximate Purchase Price</b> |
|---|---|-----------------------------------|
| Entities affiliated with Sutter Hill Ventures | 2,522,735                                 | \$ 990,022                        |
| Entity affiliated with Stefan A. Dyckerhoff   | 25,430                                    | \$ 9,980                          |

***Series C Preferred Stock Financing***

From August 2021 through November 2021, we sold an aggregate of 15,619,647 shares of Series C Preferred Stock at a purchase price of \$3.3618 per share, for an aggregate purchase price of approximately \$52.5 million. The Series C Preferred Stock sold in November 2021 were sold in connection with a secondary sale. See “—2021 Secondary Sales” below. The following table summarizes purchases of our Series C Preferred Stock by our directors and beneficial owners of more than 5% of our capital stock and their affiliated entities. Other than as set forth below, none of our directors or executive officers purchased shares of our Series C Preferred Stock.

| <b>Stockholder</b>  | <b>Shares of Series C Preferred Stock</b> | <b>Approximate Purchase Price</b> |
|---|---|-----------------------------------|
| Entities affiliated with Manuel Alba                      | 7,436                                     | \$ 24,998                         |
| Entity affiliated with Stefan A. Dyckerhoff               | 13,136                                    | \$ 44,161                         |
| Entities affiliated with Sutter Hill Ventures             | 1,303,132                                 | \$ 4,380,869                      |
| Entities affiliated with Fidelity Management and Research | 8,923,791                                 | \$ 30,000,001                     |

***Series D Preferred Stock Financing***

In May 2022, we sold an aggregate of 16,576,267 shares of Series D Preferred Stock at a purchase price of \$10.1695 per share, for an aggregate purchase price of approximately \$168.6 million. The following table

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summarizes purchases of our Series D Preferred Stock by our directors and beneficial owners of more than 5% of our capital stock and their affiliated entities. Other than as set forth below, none of our directors or executive officers purchased shares of our Series D Preferred Stock.

| <b>Stockholder</b>  | <b>Shares of Series D Preferred Stock</b> | <b>Approximate Purchase Price</b> |
|---|---|-----------------------------------|
| Entities affiliated with Sutter Hill Ventures             | 3,533,679                                 | \$ 35,935,749                     |
| Entities affiliated with Fidelity Management and Research | 10,556,704                                | \$ 107,356,401                    |
| Entity affiliated with Stefan A. Dyckerhoff               | 17,720                                    | \$ 180,204                        |

## **Secondary Sales**

### ***2021 Secondary Sales***

On November 23, 2021, certain of our employee-holders, each individually, entered into common stock purchase agreements with certain other holders of our capital stock, including entities affiliated with Sutter Hill Ventures, pursuant to which they sold to entities affiliated with Sutter Hill Ventures 746,664 shares of our common stock to the purchasing stockholders at a purchase price of \$3.3618 per share. All shares of our common stock which were sold in such secondary transactions were then exchanged for shares of our Series C Preferred Stock.

### ***2022 Secondary Sales***

On May 27, 2022, Mohan & Samant 2022 Living Trust dated 3/29/2022, a trust affiliated with our Co-Founder and Chief Executive Officer, Jitendra Mohan (the “Mohan Trust”), Navad Trust dated November 1, 2012, a trust affiliated with our Co-Founder, President, and Chief Operating Officer, Sanjay Gajendra (the “Gajendra Trust”), the Tate 1997 Living Trust dated 04/24/1997, a trust affiliated with our Chief Financial Officer, Michael Tate (the “Tate Trust”), and other employees, each individually, entered into secondary stock purchase agreements with certain other holders of our capital stock, including entities affiliated with Fidelity Management & Research Company LLC and Sutter Hill Ventures, pursuant to which they sold shares of our common stock to the purchasing stockholders at a purchase price of \$10.17 per share. Shares of common stock sold in these secondary sales were exchanged for shares of our Series D Preferred Stock, shares of Series A Preferred Stock sold in these secondary sales were exchanged for shares of our Series A-1 Preferred Stock and shares of Series B Preferred Stock sold in these secondary sales were exchanged for shares of our Series B-1 Preferred Stock, each concurrently with the closing of the applicable secondary sale. In total, the Mohan Trust sold 1,828,209 shares of Series A Preferred Stock and 298,335 shares of Series B Preferred Stock for an aggregate price of approximately \$21.6 million; the Gajendra Trust sold 802,888 shares of common stock, 980,390 shares of Series A Preferred Stock and 179,870 shares of Series B Preferred Stock for an aggregate price of approximately \$20 million; and the Tate Trust sold 26,097 shares of Series A Preferred Stock and 331,261 shares of Series B Preferred Stock for an aggregate price of approximately \$3.6 million. As part of these sales, the Mohan Trust and the Gajendra Trust sold an aggregate of 4,089,692 shares of our common stock, Series A Preferred Stock, and Series B Preferred Stock to entities affiliated with Fidelity Management & Research Company LLC, and the Tate Trust sold 357,358 shares of our Series A Preferred Stock and Series B Preferred Stock to entities affiliated with Sutter Hill Ventures.

## **Investors’ Rights Agreement**

We are party to an amended and restated investors’ rights agreement, dated as of May 17, 2022 (the “Investors’ Rights Agreement”), that provides, among other things, certain holders of our capital stock, including entities affiliated with Sutter Hill Ventures and Fidelity Management and Research, the Mohan Trust, the Gajendra Trust, the Tate Trust, and Alba 2003 Living Trust, Casa Alameda 2007, LLC, and MAR 2011

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Children’s Trust, which are trusts affiliated with our Director, Manuel Alba (collectively, the “Alba Trust”), with registration rights. See the section titled “Description of Capital Stock—Registration Rights” for more information regarding these registration rights. In addition, pursuant to the Investors’ Rights Agreement, certain of our holders of capital stock, including the Tate Trust and the Alba Trust, are also entitled to board observer rights, subject to certain continued ownership thresholds. Such board observer rights will automatically terminate upon the completion of this offering. Pursuant to that certain Amended and Restated Side Letter Agreement dated as of May 17, 2022, certain entities affiliated with Fidelity Management and Research are also entitled to board observer rights. Such board observer rights will automatically terminate upon completion of this offering.

### **Right of First Refusal**

Pursuant to our equity incentive plans, and certain agreements with our stockholders, including the Investors’ Rights Agreement and an amended and restated right of first refusal and co-sale agreement with certain holders of our capital stock, including entities affiliated with Sutter Hill Ventures and Fidelity Management and Research, the Mohan Trust, the Gajendra Trust, the Tate Trust, and the Alba Trust, we or our assignees have a right to purchase shares of our capital stock that certain stockholders propose to sell to other parties. This right will terminate upon completion of this offering. Since January 1, 2020, we have waived, exercised, or assigned our right of first refusal in connection with the sale of certain shares of our capital stock, including with respect to sales by or to certain of our executive officers and directors. See the section titled “Principal Stockholders” for additional information regarding beneficial ownership of our capital stock.

### **Voting Agreement**

We are party to an amended and restated voting agreement under which certain holders of our capital stock, including entities affiliated with Sutter Hill Ventures and Fidelity Management and Research, the Mohan Trust, the Gajendra Trust, the Tate Trust, and the Alba Trust have agreed as to the manner in which they will vote their shares of our capital stock on certain matters, including with respect to the election of directors. Upon completion of this offering, the voting agreement will terminate and none of our stockholders will have any special rights regarding the election or designation of members of our board of directors.

### **Option Exercises**

On September 11, 2020, Michael Tate, through the Tate Trust, exercised stock options for 1,950,000 shares of our common stock that had been previously granted to him at an exercise price of \$0.108 per share, for an aggregate exercise price of \$210,600.

On March 14, 2022, Philip Mazzara exercised stock options for 500,000 shares of our common stock that had been previously granted to him at an exercise price of \$0.88 per share, for an aggregate exercise price of \$440,000.

### **Other Transactions**

We have granted stock options to purchase common stock and RSUs to our executive officers and certain of our directors. See the sections titled “Executive Compensation” and “Management—Non-Employee Director Compensation” for a description of these options and RSUs.

### **Limitation of Liability and Indemnification of Officers and Directors**

We expect to adopt a second amended and restated certificate of incorporation in connection with this offering, which will become effective immediately prior to the completion of this offering and which will contain provisions that limit the liability of our directors and officers for monetary damages to the fullest extent permitted by Delaware law. Consequently, our directors and officers will not be personally liable to us or our

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stockholders for monetary damages for any breach of fiduciary duties as directors and officers, except liability for the following:

- any breach of their duty of loyalty to our company or our stockholders;
- any act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;
- for our directors, unlawful payments of dividends or unlawful stock repurchases, or redemptions as provided in Section 174 of the DGCL;
- any transaction from which they derived an improper personal benefit; or
- for our officers, any derivative action by or in the right of the corporation.

Any amendment to, or repeal of, these provisions will not eliminate or reduce the effect of these provisions in respect of any act, omission or claim that occurred or arose prior to that amendment or repeal. If the DGCL is amended to provide for further limitations on the personal liability of directors and officers of corporations, then the personal liability of our directors and officers will be further limited to the greatest extent permitted by the DGCL.

In addition, we expect to adopt second amended and restated bylaws in connection with this offering, which will become effective immediately prior to the completion of this offering and which will provide that we will indemnify, to the fullest extent permitted by law, any person who is or was a party or is threatened to be made a party to any action, suit or proceeding by reason of the fact that he or she is or was one of our directors or officers or is or was serving at our request as a director or officer of another corporation, partnership, joint venture, trust, or other enterprise. Our second amended and restated bylaws are expected to provide that we may indemnify to the fullest extent permitted by law any person who is or was a party or is threatened to be made a party to any action, suit, or proceeding by reason of the fact that he or she is or was one of our employees or agents or is or was serving at our request as an employee or agent of another corporation, partnership, joint venture, trust or other enterprise. Our second amended and restated bylaws will also provide that we must advance expenses incurred by or on behalf of a director or officer in advance of the final disposition of any action or proceeding, subject to very limited exceptions.

Further, we have entered into or will enter into, prior to the completion of this offering, indemnification agreements with each of our directors and executive officers that may be broader than the specific indemnification provisions contained in the DGCL. These indemnification agreements will require us, among other things, to indemnify our directors and executive officers against liabilities that may arise by reason of their status or service. These indemnification agreements will also require us to advance all expenses incurred by the directors and executive officers in investigating or defending any such action, suit, or proceeding. We believe that these agreements are necessary to attract and retain qualified individuals to serve as directors and executive officers.

The limitation of liability and indemnification provisions that are expected to be included in our second amended and restated certificate of incorporation, second amended and restated bylaws and in indemnification agreements that we enter into with our directors and executive officers may discourage stockholders from bringing a lawsuit against our directors and executive officers for breach of their fiduciary duties. They may also reduce the likelihood of derivative litigation against our directors and executive officers, even though an action, if successful, might benefit us and other stockholders. Further, a stockholder's investment may be harmed to the extent that we pay the costs of settlement and damage awards against directors and executive officers as required by these indemnification provisions. At present, we are not aware of any pending litigation or proceeding involving any person who is or was one of our directors, officers, employees or other agents or is or was serving at our request as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, for which indemnification is sought, and we are not aware of any threatened litigation that may result in claims for indemnification.

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We will obtain insurance policies under which, subject to the limitations of the policies, coverage is provided to our directors and executive officers against loss arising from claims made by reason of breach of fiduciary duty or other wrongful acts as a director or executive officer, including claims relating to public securities matters, and to us with respect to payments that may be made by us to these directors and executive officers pursuant to our indemnification obligations or otherwise as a matter of law.

Certain of our non-employee directors may, through their relationships with their employers, be insured and/or indemnified against certain liabilities incurred in their capacity as members of our board of directors.

The underwriting agreement to be filed as Exhibit 1.1 to this registration statement of which this prospectus forms a part will provide for indemnification by the underwriters of us and our officers, directors, and employees for certain liabilities arising under the Securities Act, or otherwise with respect to information provided by the underwriters specifically for inclusion in the registration statement.

Insofar as indemnification for liabilities arising under the Securities Act may be permitted to directors, officers, or persons controlling our company pursuant to the foregoing provisions, we have been informed that, in the opinion of the SEC, such indemnification is against public policy as expressed in the Securities Act and is therefore unenforceable.

### **Policies and Procedures for Related Party Transactions**

Following the completion of this offering, our audit committee charter will provide that the audit committee has the primary responsibility for reviewing and approving or disapproving “related party transactions,” which are transactions, arrangements or relationships (or any series of similar transactions, arrangements or relationships) between us and related persons in which the aggregate amount involved exceeds or may be expected to exceed \$120,000 and in which a related person has or will have a direct or indirect material interest. For purposes of this policy, a related person will be defined as a director, executive officer, nominee for director or greater than 5% beneficial owner of our common stock, in each case since the beginning of the most recently completed year, and their immediate family members. In determining whether to approve or ratify any such transaction, our audit committee will take into account, among other factors it deems appropriate, (i) whether the transaction is on terms no less favorable than terms generally available to unaffiliated third parties under the same or similar circumstances and (ii) the extent of the related party’s interest in the transaction.

All of the transactions described above were entered into prior to the adoption of this policy. Accordingly, each was approved by disinterested members of our board of directors after making a determination that the transaction was executed on terms no less favorable than those that could have been obtained from an unrelated third party.

**PRINCIPAL STOCKHOLDERS**

The following table sets forth certain information with respect to the beneficial ownership of our common stock as of December 31, 2023 for:

- each of our named executive officers;
- each of our directors;
- all of our current executive officers and directors as a group; and
- each person or entity, or group of affiliated persons or entities, known by us to be the beneficial owner of more than five percent of any class of our voting securities.

We have determined beneficial ownership in accordance with the rules of the SEC, and thus it represents sole or shared voting or investment power with respect to our securities. Unless otherwise indicated below, to our knowledge, the persons and entities named in the table have sole voting and sole investment power with respect to all shares that they beneficially owned, subject to community property laws where applicable. We have deemed shares of our common stock subject to options and warrants that are currently exercisable or exercisable within 60 days of December 31, 2023 and RSUs that would vest based on time and service-based vesting conditions, assuming any applicable liquidity event condition had been achieved, within 60 days of December 31, 2023 to be beneficially owned by the person holding the option, warrant or RSUs for the purpose of computing the percentage ownership of that person but have not treated them as outstanding for the purpose of computing the percentage ownership of any other person.

We have based percentage ownership of our common stock before this offering on \_\_\_\_\_ shares of our common stock outstanding as of December 31, 2023, assuming the conversion of all of our outstanding shares of preferred stock into shares of common stock. Percentage ownership of our common stock after this offering assumes (i) the conversion of all of our outstanding shares of preferred stock into shares of common stock, (ii) our sale of \_\_\_\_\_ shares of common stock in this offering, and (iii) no exercise by the underwriters of their option to purchase \_\_\_\_\_ additional shares of our common stock from us.

Unless otherwise indicated, the address of each beneficial owner listed in the table below is c/o Astera Labs, Inc., 2901 Tasman Drive, Suite 205, Santa Clara, CA 95054.

|   | <u>Number of Shares<br/>Beneficially Owned</u> | <u>% of Total<br/>Outstanding<br/>Before<br/>Offering</u> | <u>% of Total<br/>Outstanding<br/>After Offering</u> |
|---|--|---|--|
| <b>5% Stockholders:</b>   |  |   |  |
| Entities Affiliated with Sutter Hill Ventures(1)                |  |   |  |
| Entities Affiliated with Fidelity Management and Research(2)    |  |   |  |
| <b>Named Executive Officers and Directors:</b>                  |  |   |  |
| Jitendra Mohan(3)   |  |   |  |
| Sanjay Gajendra(4)  |  |   |  |
| Michael Tate(5)   |  |   |  |
| Philip Mazzara(6)   |  |   |  |
| Manuel Alba(7)  |  |   |  |
| Stefan Dyckerhoff (8)   |  |   |  |
| Michael Hurlston(9)   |  |   |  |
| Jack Lazar(10)  |  |   |  |
| All directors and executive officers as a group (8 persons)(11) |  |   |  |

\_\_\_\_\_ Represents less than one percent (1%).

(1) Consists of \_\_\_\_\_ .. The address of Sutter Hill Ventures is \_\_\_\_\_ .



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- (2) Consists of .. The address of Fidelity Management and Research is .
- (3) Consists of (i) shares of common stock and (ii) shares of common stock subject to outstanding options that are exercisable within 60 days of December 31, 2023.
- (4) Consists of (i) shares of common stock and (ii) shares of common stock subject to outstanding options that are exercisable within 60 days of December 31, 2023.
- (5) Consists of (i) shares of common stock and (ii) shares of common stock subject to outstanding options that are exercisable within 60 days of December 31, 2023.
- (6) Consists of (i) shares of common stock and (ii) shares of common stock subject to outstanding options that are exercisable within 60 days of December 31, 2023.
- (7) Consists of (i) shares of common stock and (ii) shares of common stock subject to outstanding options that are exercisable within 60 days of December 31, 2023.
- (8) Consists of (i) shares of common stock and (ii) shares of common stock subject to outstanding options that are exercisable within 60 days of December 31, 2023.
- (9) Consists of (i) shares of common stock and (ii) shares of common stock subject to outstanding options that are exercisable within 60 days of December 31, 2023.
- (10) Consists of (i) shares of common stock and (ii) shares of common stock subject to outstanding options that are exercisable within 60 days of December 31, 2023.
- (11) Consists of (i) shares of common stock and (ii) shares of common stock subject to outstanding options that are exercisable within 60 days of December 31, 2023.

## DESCRIPTION OF CAPITAL STOCK

### General

The following description summarizes the most important terms of our capital stock, as they are expected to be in effect upon the completion of this offering. We expect to adopt a second amended and restated certificate of incorporation and second amended and restated bylaws in connection with this offering, and this description summarizes the provisions that are expected to be included in those documents. Because it is only a summary, it does not contain all the information that may be important to you. For a complete description of the matters that are summarized in this section titled “Description of Capital Stock,” you should refer to our second amended and restated certificate of incorporation and second amended and restated bylaws and our Amended and Restated Investors’ Rights Agreement, which are included as exhibits to the registration statement of which this prospectus forms a part, and to the applicable provisions of Delaware law.

Immediately following the completion of this offering, our authorized capital stock will consist of \_\_\_\_\_ shares of common stock, \$ \_\_\_\_\_ par value per share, and \_\_\_\_\_ shares of undesignated preferred stock, \$ \_\_\_\_\_ par value per share.

As of December 31, 2023, assuming the conversion of our outstanding shares of convertible preferred stock to occur immediately prior to the completion of this offering, there would have been \_\_\_\_\_ outstanding shares of our common stock, held by \_\_\_\_\_ stockholders of record, and no shares of preferred stock outstanding. Our board of directors is authorized, without stockholder approval except as required by the listing standards of \_\_\_\_\_, to issue additional shares of our capital stock.

### Common Stock

#### *Dividend Rights*

Subject to preferences that may apply to any shares of preferred stock outstanding at the time, the holders of our common stock are entitled to receive dividends out of funds legally available if our board of directors, in its discretion, determines to issue dividends and then only at the times and in the amounts that our board of directors may determine.

#### *Voting Rights*

Holders of our common stock are entitled to one vote for each share held on all matters submitted to a vote of stockholders. We do not expect to provide for cumulative voting for the election of directors in our second amended and restated certificate of incorporation.

#### *No Preemptive or Similar Rights*

Our common stock is not entitled to preemptive rights and is not subject to conversion, redemption, or sinking fund provisions.

#### *Right to Receive Liquidation Distributions*

If we become subject to a liquidation, dissolution or winding-up, the assets legally available for distribution to our stockholders would be distributable ratably among the holders of our common stock and any participating preferred stock outstanding at that time, subject to prior satisfaction of all outstanding debt and liabilities and the preferential rights of and the payment of liquidation preferences, if any, on any outstanding shares of preferred stock.

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### ***Fully Paid and Non-Assessable***

All of the shares of our common stock to be issued pursuant to this offering will be, fully paid and non-assessable.

### **Preferred Stock**

Following this offering, our board of directors will be authorized, subject to limitations prescribed by Delaware law, to issue preferred stock in one or more classes, to establish from time to time the number of shares to be included in each class and to fix the designation, powers, preferences, and rights of the shares of each class and any of its qualifications, limitations, or restrictions, in each case without further vote or action by our stockholders. Our board of directors can also increase or decrease the number of shares of any class of preferred stock, but not below the number of shares of that class then outstanding, without any further vote or action by our stockholders. Our board of directors may authorize the issuance of preferred stock with voting or conversion rights that could adversely affect the voting power or other rights of the holders of our common stock. The issuance of preferred stock, while providing flexibility in connection with possible acquisitions and other corporate purposes, could, among other things, have the effect of delaying, deferring, or preventing a change in control of our company and might adversely affect the market price of our common stock and the voting and other rights of the holders of our common stock. We have no current plan to issue any shares of preferred stock.

### **Options**

As of December 31, 2023, we had outstanding options to purchase an aggregate of \_\_\_\_\_ shares of our common stock, with a weighted-average exercise price of \$ \_\_\_\_\_ per share, pursuant to our 2018 Plan, which was adopted in March 2018 and most recently amended by our board of directors in November 2019.

### **Restricted Stock Units**

As of December 31, 2023, we had outstanding RSUs representing \_\_\_\_\_ shares of our common stock, issued pursuant to our 2018 Plan.

### **Warrants**

As of December 31, 2023, there were outstanding warrants to purchase an aggregate of \_\_\_\_\_ shares of our common stock, with a weighted-average exercise price of \$ \_\_\_\_\_ per share. The warrants will be automatically converted into warrants for common stock upon the completion of this offering.

### **Registration Rights**

After the completion of this offering, certain holders of our common stock will be entitled to rights with respect to the registration of their shares under the Securities Act. These registration rights are contained in our Investors' Rights Agreement. We, along with certain holders of our common stock, are parties to the Investors' Rights Agreement. The registration rights set forth in the Investors' Rights Agreement will expire upon the earlier of five years following the completion of this offering, or, with respect to any particular stockholder, following the completion of this offering, when such stockholder is able to sell all of its shares pursuant to Rule 144 of the Securities Act without any volume limitations. We will pay the registration expenses (other than underwriting discounts and selling commissions) of the holders of the shares registered pursuant to the registrations described below, including the reasonable fees of one counsel for the selling holders. In an underwritten offering, the underwriters have the right, subject to specified conditions, to limit the number of shares such holders may include. In connection with this offering, each stockholder that has registration rights will agree not to sell or otherwise dispose of any securities without the prior written consent of \_\_\_\_\_ for a period of \_\_\_\_\_ days after the date of

this prospectus, subject to certain terms and conditions. See the section titled “Underwriting” for more information regarding such restrictions.

***Demand Registration Rights on Form S-1***

After the completion of this offering, the holders of up to approximately \_\_\_\_\_ shares of our common stock will be entitled to certain demand registration rights. At any time beginning \_\_\_\_\_ days after the completion of this offering, the holders of a majority of these shares then outstanding may request that we register the offer and sale of their shares on a registration statement on Form S-1, so long as the request covers at least 30% of these shares then outstanding, or a lesser percentage if the anticipated aggregate offering price, net of selling expenses, is at least \$20.0 million, subject to certain limitations. Following this initial registration, the holders of 30% or more of the shares then outstanding may request that we register at least 20% of these shares then outstanding, or a lesser percentage if the anticipated aggregate offering price, net of underwriting discounts and commissions, is at least \$5.0 million. We are obligated to effect only two such registrations in the aggregate. If we determine that it would be seriously detrimental to us and our stockholders to affect such a demand registration, we have the right to defer such registration, not more than once in any 12-month period, for a period of not more than 90 days. Additionally, we will not be required to effect a demand registration on Form S-1 during the period beginning 90 days before our good faith estimate of the filing of, and ending on the date \_\_\_\_\_ days following the effectiveness of, a registration statement on Form S-1 relating to the public offering of our common stock. Additionally, we will not be required to effect a demand registration on Form S-1 if the requesting stockholders propose to dispose of shares of our common stock that may be immediately registered pursuant to a demand registration on Form S-3 (as described in the subsection titled “—Demand Registration Rights on Form S-3” below).

***Piggyback Registration Rights***

After the completion of this offering, if we propose to register the offer and sale of our common stock under the Securities Act, in connection with the public offering of such common stock, the holders of up to approximately \_\_\_\_\_ shares of our common stock will be entitled to certain “piggyback” registration rights allowing such holders to include their shares in such registration, subject to certain marketing and other limitations. As a result, whenever we propose to file a registration statement under the Securities Act, other than with respect to (1) a registration relating to a demand right described above or (2) a registration relating to the sale or grant of securities to our employees pursuant to any stock option, stock purchase, equity incentive or similar plan, the holders of these shares are entitled to notice of the registration and have the right, subject to certain limitations, to include their shares in the registration.

***Demand Registration Rights on Form S-3***

After the completion of this offering, the holders of up to approximately \_\_\_\_\_ shares of our common stock will be entitled to certain Form S-3 registration rights. The holders of any of these shares then outstanding may request that we register the offer and sale of their shares on a registration statement on Form S-3 if we are eligible to file a registration statement on Form S-3 so long as the request covers at least that number of shares with an anticipated aggregate offering price, net of selling expenses, of at least \$2.0 million, subject to certain limitations. These stockholders may make an unlimited number of requests for registration on Form S-3; however, we will not be required to affect a registration on Form S-3 if we have affected two such registrations in the 12-month period immediately preceding the date of such request. If we determine that it would be seriously detrimental to our stockholders to affect such a registration, we have the right to defer such registration, not more than once in any 12-month period, for a period of not more than 90 days. Additionally, we will not be required to effect a demand registration on Form S-3 during the period beginning 30 days before our good faith estimate of the filing of, and ending on the date 90 days following the effectiveness of, a registration statement on Form S-3 relating to the public offering of our common stock.

## **Anti-Takeover Provisions**

Certain provisions of Delaware law, our second amended and restated certificate of incorporation and our second amended and restated bylaws, which are summarized below, may have the effect of delaying, deferring, or discouraging another person from acquiring control of our company. They are also designed, in part, to encourage persons seeking to acquire control of us to negotiate first with our board of directors. We believe that the benefits of increased protection of our potential ability to negotiate with an unfriendly or unsolicited acquirer outweigh the disadvantages of discouraging a proposal to acquire us because negotiation of these proposals could result in an improvement of their terms.

### ***Delaware Law***

We are governed by the provisions of Section 203 of the DGCL. In general, Section 203 prohibits a public Delaware corporation from engaging in a “business combination” with an “interested stockholder” for a period of three years after the date of the transaction in which the person became an interested stockholder, unless the business combination is approved in a prescribed manner. A “business combination” includes mergers, asset sales or other transactions resulting in a financial benefit to the stockholder. An “interested stockholder” is a person who, together with affiliates and associates, owns, or within three years did own, 15% or more of the corporation’s outstanding voting stock. These provisions may have the effect of delaying, deferring, or preventing a change in our control.

### ***Second Amended and Restated Certificate of Incorporation and Second Amended and Restated Bylaw Provisions***

Our second amended and restated certificate of incorporation and our second amended and restated bylaws will include a number of provisions that could deter hostile takeovers or delay or prevent changes in control of our board of directors or management team, including the following:

- *Board of Directors Vacancies.* Our second amended and restated certificate of incorporation and second amended and restated bylaws will authorize only our board of directors to fill vacant directorships, including newly created seats. In addition, the number of directors constituting our board of directors will be permitted to be set only by a resolution adopted by a majority vote of our entire board of directors. These provisions would prevent a stockholder from increasing the size of our board of directors and then gaining control of our board of directors by filling the resulting vacancies with its own nominees. These provisions will make it more difficult to change the composition of our board of directors and promote continuity of management.
- *Classified Board.* Our second amended and restated certificate of incorporation and second amended and restated bylaws will provide that our board of directors is classified into three classes of directors. A third party may be discouraged from making a tender offer or otherwise attempting to obtain control of us as it is more difficult and time consuming for stockholders to replace a majority of the directors on a classified board of directors. See the section titled “Management—Board of Directors.”
- *Stockholder Action; Special Meeting of Stockholders.* Our second amended and restated certificate of incorporation will provide that our stockholders may not take action by written consent but may only take action at annual or special meetings of our stockholders. As a result, a holder controlling a majority of our capital stock would not be able to amend our second amended and restated bylaws or remove directors without holding a meeting of our stockholders called in accordance with our second amended and restated bylaws. Our second amended and restated bylaws will further provide that special meeting of our stockholders may be called only by a majority of our board of directors, thus prohibiting a stockholder from calling a special meeting. These provisions might delay the ability of our stockholders to force consideration of a proposal or for stockholders controlling a majority of our capital stock to take any action, including the removal of directors.

- *Advance Notice Requirements for Stockholder Proposals and Director Nominations.* Our second amended and restated bylaws will provide advance notice procedures for stockholders seeking to bring business before our annual meeting of stockholders or to nominate candidates for election as directors at our annual meeting of stockholders. Our second amended and restated bylaws will also specify certain requirements regarding the form and content of a stockholder's notice. These provisions might preclude our stockholders from bringing matters before our annual meeting of stockholders or from making nominations for directors at our annual meeting of stockholders if the proper procedures are not followed. We expect that these provisions may also discourage or deter a potential acquirer from conducting a solicitation of proxies to elect the acquirer's own slate of directors or otherwise attempting to obtain control of our company.
- *No Cumulative Voting.* The DGCL provides that stockholders are not entitled to cumulate votes in the election of directors unless a corporation's certificate of incorporation provides otherwise. Our second amended and restated certificate of incorporation will not provide for cumulative voting.
- *Directors Removed Only for Cause.* Our second amended and restated certificate of incorporation will provide that stockholders may remove directors only for cause.
- *Amendment of Charter Provisions.* Any amendment of the above provisions in our second amended and restated certificate of incorporation will require approval by holders of at least a majority of our then outstanding common stock.
- *Issuance of Undesignated Preferred Stock.* Our board of directors will have the authority, without further action by the stockholders, to issue up to \_\_\_\_\_ shares of undesignated preferred stock with rights and preferences, including voting rights, designated from time to time by our board of directors. The existence of authorized but unissued shares of preferred stock would enable our board of directors to render more difficult or to discourage an attempt to obtain control of us by means of a merger, tender offer, proxy contest, or other means.
- *Exclusive Forum.* Our second amended and restated bylaws will provide that, unless we consent in writing to the selection of an alternative forum, the Court of Chancery of the State of Delaware shall be the sole and exclusive forum for state law claims for (1) any derivative action or proceeding brought on our behalf, (2) any action asserting a claim of, or a claim based on, a breach of a fiduciary duty owed by any of our current or former directors, officers, and employees to us or our stockholders, (3) any action asserting a claim against us, or any current or former director, officer or employee of us, arising out of or pursuant to the DGCL, our second amended and restated certificate of incorporation or our second amended and restated bylaws or as to which the DGCL confers jurisdiction on the Court of Chancery of the State of Delaware, (4) any action to interpret, apply, enforce, or determine the validity of our second amended and restated certificate of incorporation or our second amended and restated bylaws, or (5) any action asserting a claim against us or any current or former director, officer or employee that is governed by the internal affairs doctrine; provided, however, that this provision does not apply to any causes of action arising under the Securities Act or the Exchange Act. In addition, our second amended and restated bylaws will provide that, unless we consent in writing to the selection of an alternative forum, the federal district courts of the United States will be the sole and exclusive forum for resolving any complaint asserting a cause of action arising under the Securities Act, the Exchange Act or the respective rules and regulations promulgated thereunder. To the fullest extent permitted by law, any person or entity purchasing or otherwise acquiring any interest in our securities will be deemed to have notice of and to have consented to these forum provisions. These forum provisions may impose additional litigation costs on stockholders in pursuing any such claims, particularly if the stockholders do not reside in or near the State of Delaware. Additionally, the forum selection clause that will be in our second amended and restated bylaws may limit our stockholders' ability to bring a claim in a judicial forum they find favorable for disputes with us or our directors, officers or employees, which may discourage such lawsuits against us and our directors, officers, and employees even though an action, if successful, might benefit our stockholders. In addition, while the Delaware

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Supreme Court and other state courts have upheld the validity of the federal forum selection provisions purporting to require claims under the Securities Act be brought in federal court, there is uncertainty as to whether other courts will enforce our Federal Forum Provision. If the Federal Forum Provision is found to be unenforceable in an action, we may incur additional costs associated with resolving such an action. The Federal Forum Provision may also impose additional litigation costs on stockholders who assert that the provision is not enforceable or invalid. The Court of Chancery of the State of Delaware and the federal district courts of the United States may also reach different judgments or results than would other courts, including courts where a stockholder considering an action may be located or would otherwise choose to bring the action, and such judgments may be more or less favorable to us than our stockholders.

**Transfer Agent and Registrar**

Upon the completion of this offering, the transfer agent and registrar for our common stock will be . The transfer agent's address is .

**Listing**

We intend to apply to list our common stock on under the symbol “ .”

## SHARES ELIGIBLE FOR FUTURE SALE

Prior to this offering, there has been no public market for our common stock, and we cannot predict the effect, if any, that future sales of shares of our common stock or the availability for future sales of shares of our common stock will have on the market price of our common stock prevailing from time to time. Future sales of our common stock in the public market, or the availability of such shares for sale in the public market, could adversely affect market prices prevailing from time to time. As described below, only a limited number of shares will be available for sale shortly after this offering due to contractual and legal restrictions on resale. Nevertheless, sales of our common stock in the public market after such restrictions lapse, or the perception that those sales may occur, could adversely affect the prevailing market price at such time and our ability to raise equity capital in the future.

Following the completion of this offering, based on the number of shares of our common stock outstanding as of December 31, 2023, we will have a total of \_\_\_\_\_ shares of our common stock outstanding. Of these outstanding shares, all of the shares of common stock sold in this offering will be freely tradable, except that any shares purchased in this offering by our affiliates, as that term is defined in Rule 144 under the Securities Act, would only be able to be sold in compliance with the Rule 144 limitations described below.

The remaining outstanding shares of our common stock will be deemed “restricted securities” as defined in Rule 144. Restricted securities may be sold in the public market only if they are registered or if they qualify for an exemption from registration under Rule 144 or Rule 701 under the Securities Act, which are summarized below. In addition, all of our executive officers, directors, and holders of substantially all of our common stock and securities convertible into or exchangeable for our common stock have entered into market standoff agreements with us or lock-up agreements with the underwriters under which they have agreed, subject to specific exceptions, not to sell any of our stock for at least \_\_\_\_\_ days following the date of this prospectus. Subject to these lock-up agreements and the provisions of Rule 144 under the Securities Act, as well as our insider trading policy, these restricted securities will be available for sale in the public market after the date of this prospectus.

### Lock-Up Agreements and Market Standoff Provisions

We, our directors and executive officers, and certain holders of our common stock and securities exercisable for or convertible into our common stock have or will sign lock-up agreements that prevent us and them from selling any of our common stock or any securities exercisable for or convertible into our common stock for a period of not less than \_\_\_\_\_ days from the date of this prospectus without the prior written consent of \_\_\_\_\_ on behalf of the underwriters, subject to certain exceptions. \_\_\_\_\_ in their discretion, may release any of the securities subject to these lock-up agreements at any time. These agreements are further described in the section titled “Underwriting.”

In addition to the restrictions contained in the lock-up agreements described above, we will enter into agreements with substantially all of our security holders, including our Investors’ Rights Agreement and our standard form of option and restricted stock unit agreements, that contain market stand-off provisions, which impose restrictions on the ability of such security holders to offer, sell, or transfer our equity securities for a period of \_\_\_\_\_ days following the date of this prospectus.

### Rule 144

In general, under Rule 144 as currently in effect, once we have been subject to the public company reporting requirements of Section 13 or Section 15(d) of the Exchange Act for at least 90 days, a person who is not deemed to have been one of our affiliates for purposes of the Securities Act at any time during the 90 days preceding a sale and who has beneficially owned the shares proposed to be sold for at least six months, including the holding period of any prior owner other than our affiliates, is entitled to sell those shares without complying with the



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manner of sale, volume limitation or notice provisions of Rule 144, subject to compliance with the public information requirements of Rule 144 and subject to the expiration of the lock-up agreements and market standoff agreements described above. If such a person has beneficially owned the shares proposed to be sold for at least one year, including the holding period of any prior owner other than our affiliates, then that person would be entitled to sell those shares without complying with any of the requirements of Rule 144.

In general, under Rule 144, as currently in effect, our affiliates or persons selling shares on behalf of our affiliates are entitled to sell upon expiration of the lock-up agreements and market standoff agreements described above. Beginning 90 days after the date of this prospectus, within any three-month period, such stockholders may sell a number of shares that does not exceed the greater of:

- 1% of the number of shares of our common stock then outstanding, which will equal approximately \_\_\_\_\_ shares immediately after the completion of this offering; or
- the average weekly trading volume of our common stock during the four calendar weeks preceding the filing of a notice on Form 144 with respect to that sale.

Sales under Rule 144 by our affiliates or persons selling shares on behalf of our affiliates are also subject to certain manner of sale provisions and notice requirements and to the availability of current public information about us.

### **Rule 701**

Rule 701, as currently in effect, generally allows a stockholder who purchased shares of our common stock pursuant to a written compensatory plan or contract and who is not deemed to have been an affiliate of our company during the immediately preceding 90 days to sell these shares in reliance upon Rule 144, but without being required to comply with the public information, holding period, volume limitation or notice provisions of Rule 144. Rule 701 also permits affiliates of our company to sell their Rule 701 shares under Rule 144 without complying with the holding period requirements of Rule 144. All holders of Rule 701 shares, however, are required by that rule to wait until 90 days after the date of this prospectus before selling those shares pursuant to Rule 701, subject to the expiration of the lock-up agreements and market standoff agreements described above.

### **Registration Rights**

Pursuant to the Investors' Rights Agreement, the holders of up to \_\_\_\_\_ shares of our common stock and their transferees will be entitled to certain rights with respect to the registration of the offer and sale of those shares under the Securities Act. See the section titled "Description of Capital Stock—Registration Rights" for a description of these registration rights. If the offer and sale of these shares is registered, the shares will be freely tradable without restriction under the Securities Act, and a large number of shares may be sold into the public market.

### **Registration Statement on Form S-8**

We intend to file a registration statement on Form S-8 under the Securities Act to register all of the shares of our common stock issued or reserved for issuance under our 2018 Plan, our 2024 Plan, and our ESPP. We expect to file this registration statement as promptly as possible after the completion of this offering. Shares covered by this registration statement will be eligible for sale in the public market, subject to the Rule 144 limitations applicable to affiliates, vesting restrictions and any applicable lock-up agreements, and market standoff agreements. As of December 31, 2023, RSUs and options to purchase a total of \_\_\_\_\_ shares of our common stock pursuant to our 2018 Plan were outstanding and no options or other equity awards were outstanding or exercisable under our 2024 Plan or our ESPP.

## **MATERIAL U.S. FEDERAL INCOME TAX CONSEQUENCES TO NON-U.S. HOLDERS OF OUR COMMON STOCK**

The following is a general discussion of certain material U.S. federal income tax consequences relating to the ownership and disposition of our common stock by a non-U.S. holder. For purposes of this discussion, the term “non-U.S. holder” means a beneficial owner of our common stock that is not, for U.S. federal income tax purposes:

- an individual who is a citizen or resident of the United States;
- a corporation, or other entity treated as a corporation for U.S. federal income tax purposes, created or organized in or under the laws of the United States or of any political subdivision of the United States;
- an estate the income of which is subject to U.S. federal income taxation regardless of its source; or
- a trust, if a U.S. court is able to exercise primary supervision over the administration of the trust and one or more “United States persons” (as defined in the Code) have authority to control all substantial decisions of the trust or if the trust has a valid election in effect to be treated as a United States person under applicable U.S. Treasury Regulations.

This discussion is based on current provisions of the Code, existing and proposed U.S. Treasury Regulations promulgated thereunder, current administrative rulings, and judicial decisions, all as in effect as of the date of this prospectus and all of which are subject to change or to differing interpretation, possibly with retroactive effect. Any such change or differing interpretation could alter the tax consequences to non-U.S. holders described below. We have not sought and will not seek any rulings from the Internal Revenue Service (the “IRS”) regarding the matters discussed below. There can be no assurance that the IRS will not challenge one or more of the tax consequences described below.

We assume in this discussion that each non-U.S. holder holds shares of our common stock as a capital asset (generally, property held for investment) within the meaning of Section 1221 of the Code. This discussion does not address all aspects of U.S. federal income taxation that may be relevant to a particular non-U.S. holder in light of that non-U.S. holder’s individual circumstances nor does it address any aspects of U.S. state or local or non-U.S. taxes, the alternative minimum tax, the Medicare contribution tax on net investment income, or U.S. federal taxes other than income taxes (e.g., estate or gift taxes). This discussion also does not consider any specific facts or circumstances that may apply to a non-U.S. holder and does not address the special tax rules applicable to particular non-U.S. holders, such as:

- banks or other financial institutions;
- insurance companies;
- tax-exempt or governmental organizations;
- regulated investment companies;
- real estate investment trusts;
- brokers or dealers in securities;
- pension plans;
- tax-qualified retirement plans;
- controlled foreign corporations;
- passive foreign investment companies;
- corporations that accumulate earnings to avoid U.S. federal income tax;
- persons that hold our common stock as part of a straddle, hedge, conversion transaction, synthetic security, or other integrated investment;

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- persons who own, or are deemed to own, more than five percent of our common stock (except to the extent specifically set forth below);
- certain U.S. expatriates or former citizens or long-term residents of the United States;
- persons who have elected to mark their securities to market;
- persons deemed to sell our common stock under the constructive sale provisions of the Code;
- persons who acquire our common stock pursuant to the exercise of any option or as compensation for services; or
- persons subject to special tax accounting rules as a result of any item of gross income with respect to our common stock being taken into account in an “applicable financial statement” as defined in Section 451(b) of the Code.

In addition, this discussion does not address the tax treatment of partnerships (including any entity or arrangement treated as a partnership for U.S. federal income tax purposes) or other entities that are transparent for U.S. federal income tax purposes or persons who hold their common stock through partnerships or other entities that are transparent for U.S. federal income tax purposes. In the case of a holder that is classified as a partnership for U.S. federal income tax purposes, the tax treatment of a person treated as a partner in such partnership for U.S. federal income tax purposes generally will depend on the status of the partner, the activities of the partner and the partnership and certain determinations made at the partner level. A person treated as a partner in a partnership that holds our common stock or who holds our common stock through another transparent entity should consult his, her, or its own tax advisor regarding the tax consequences of the ownership and disposition of our common stock through the partnership or other transparent entity, as applicable.

Prospective investors should consult their own tax advisors regarding the U.S. federal, state, or local income tax considerations, and non-U.S. income and other tax considerations, of acquiring, holding, and disposing of our common stock.

### **Distributions on our common stock**

We do not currently expect to pay any dividends. See the section titled “Dividend Policy.” However, in the event that we do pay distributions of cash or property on our common stock, those distributions will constitute dividends for U.S. federal income tax purposes to the extent paid from our current or accumulated earnings and profits, as determined under U.S. federal income tax principles. If a distribution exceeds our current and accumulated earnings and profits, the excess will be treated as a tax-free return of a non-U.S. holder’s investment, up to such holder’s tax basis in our common stock. Any remaining excess will be treated as capital gain, subject to the tax treatment described below under the heading “Gain on Sale, Exchange, or Other Taxable Disposition of Common Stock.”

Subject to the discussion of effectively connected income below and the discussions below under the headings “Information Reporting and Backup Withholding” and “Foreign Account Tax Compliance Act”, dividends paid to a non-U.S. holder generally will be subject to withholding of U.S. federal income tax at a 30% rate or such lower rate as may be specified by an applicable income tax treaty between the United States and such holder’s country of residence. If we or the applicable withholding agent are unable to determine, at a time reasonably close to the date of payment of a distribution on our common stock, what portion, if any, of the distribution will constitute a dividend, then we or the applicable withholding agent may withhold U.S. federal income tax on the basis of assuming that the full amount of the distribution will be a dividend. If we or another withholding agent apply over-withholding on the basis of such an assumption, the non-U.S. holder may be entitled to a refund or credit of any excess tax withheld by timely filing an appropriate claim with the IRS.

A non-U.S. holder who claims the benefit of an applicable income tax treaty between the United States and such holder’s country of residence with respect to U.S. withholding taxes generally will be required to provide a

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properly executed IRS Form W-8BEN or W-8BEN-E (or applicable successor form) and satisfy applicable certification and other requirements. A non-U.S. holder that is eligible for a reduced rate of U.S. withholding tax under an income tax treaty but does not timely provide the required documentation may obtain a refund or credit of any excess amounts withheld by timely filing an appropriate claim with the IRS. Non-U.S. holders are urged to consult their own tax advisors regarding their entitlement to benefits under a relevant income tax treaty.

Dividends that are treated as effectively connected with a trade or business conducted by a non-U.S. holder within the United States, and, if an applicable income tax treaty so requires, that are attributable to a permanent establishment or fixed base maintained by the non-U.S. holder within the United States, are generally exempt from the 30% withholding tax if the non-U.S. holder satisfies applicable certification and disclosure requirements. To obtain this exemption, a non-U.S. holder must generally provide us or the applicable withholding agent with a properly executed and unexpired IRS Form W-8ECI properly certifying such exemption. However, such U.S. effectively connected income is generally taxed on a net income basis at the same graduated U.S. federal income tax rates and in the same manner applicable to United States persons (as defined in the Code). Any U.S. effectively connected income received by a non-U.S. holder that is a corporation may also, under certain circumstances, be subject to an additional “branch profits tax” at a 30% rate or such lower rate as may be specified by an applicable income tax treaty between the United States and such holder’s country of residence.

Any documentation provided to an applicable withholding agent may need to be updated in certain circumstances. The certification requirements described above also may require a non-U.S. holder to provide its U.S. taxpayer identification number.

### **Gain on Sale, Exchange, or Other Taxable Disposition of Common Stock**

Subject to the discussions below under the headings “Information Reporting and Backup Withholding” and “Foreign Account Tax Compliance Act,” a non-U.S. holder generally will not be subject to U.S. federal income tax or withholding tax on gain recognized on a sale, exchange, or other taxable disposition of our common stock unless:

- the gain is effectively connected with the non-U.S. holder’s conduct of a trade or business within the United States, and, if an applicable income tax treaty so requires, the gain is attributable to a permanent establishment or fixed base maintained by the non-U.S. holder within the United States; in these cases, the non-U.S. holder will generally be taxed on a net income basis at the same graduated U.S. federal income tax rates and in the same manner applicable to United States persons, and, if the non-U.S. holder is a corporation, an additional branch profits tax at a rate of 30%, or a lower rate as may be specified by an applicable income tax treaty, may also apply;
- the non-U.S. holder is a nonresident alien individual who is present in the United States for a period or periods aggregating 183 days or more in the taxable year of the disposition and certain other conditions are met, in which case the non-U.S. holder will be subject to U.S. federal income tax at a rate of 30% (or such lower rate as may be specified by an applicable income tax treaty) on the amount by which the non-U.S. holder’s capital gains allocable to U.S. sources exceed capital losses allocable to U.S. sources during the taxable year of the disposition (without taking into account any capital loss carryovers); or
- we are or were a “United States real property holding corporation” during a certain look-back period; in such case, unless our common stock is regularly traded on an established securities market and the non-U.S. holder held no more than five percent of our outstanding common stock, directly or indirectly, actually, or constructively, during the shorter of the five-year period ending on the date of the disposition or the period that the non-U.S. holder held our common stock, such non-U.S. holder generally will be taxed on its net gain derived from the disposition at the same graduated U.S. federal income tax rates and in the same manner applicable to United States persons (as defined in the Code). Generally, a corporation is a “United States real property holding corporation” if the fair market value

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of its “United States real property interests,” as defined in the Code and applicable U.S. Treasury Regulations, equals or exceeds 50% of the sum of the fair market value of its worldwide real property interests plus its other assets used or held for use in a trade or business. Although there can be no assurance in this regard, we believe that we have not been and are not currently, and we do not anticipate becoming, a “United States real property holding corporation” for U.S. federal income tax purposes. No assurance can be provided that our common stock will be regularly traded on an established securities market for purposes of the rules described above.

Non-U.S. holders should consult their tax advisors regarding any applicable tax treaties that may provide for different rules.

### **Information Reporting and Backup Withholding**

We or the applicable withholding agent must report annually to the IRS and to each non-U.S. holder the gross amount of the distributions on our common stock paid to such holder and the tax withheld, if any, with respect to such distributions. Non-U.S. holders may have to comply with specific certification procedures to establish that the holder is not a United States person (as defined in the Code) so as to avoid backup withholding at the applicable rate with respect to distributions on our common stock, unless the holder otherwise establishes an exemption. Generally, a holder will comply with such procedures if it provides a properly executed IRS Form W-8BEN, W-8BEN-E, or W-8ECI or otherwise meets documentary evidence requirements for establishing that it is not a United States person. However, information returns are required to be filed with the IRS in connection with any distributions on our common stock paid to the non-U.S. holder (as described above), even if the holder complies with such procedures so as to avoid backup withholding.

Information reporting and backup withholding generally will apply to the proceeds of a disposition of our common stock by a non-U.S. holder effected by or through the U.S. office of any broker, U.S. or foreign, unless the holder complies with specific certification procedures to establish that it is not a United States person (as described above) and satisfies certain other requirements, or the holder otherwise establishes an exemption. Generally, information reporting and backup withholding will not apply to a payment of disposition proceeds to a non-U.S. holder where the transaction is effected outside the United States through the non-U.S. office of a foreign broker. However, for information reporting purposes, dispositions effected through a non-U.S. office of a broker that is a United States person or has certain substantial U.S. connections relating to its ownership or operations generally will be treated in a manner similar to dispositions effected through a U.S. office of a broker. Non-U.S. holders should consult their own tax advisors regarding the application of the information reporting and backup withholding rules to them.

Copies of information returns may be made available to the tax authorities of the country in which the non-U.S. holder resides or is incorporated under the provisions of a specific treaty or agreement. Any documentation provided to an applicable withholding agent may need to be updated in certain circumstances.

Backup withholding is not an additional tax. Any amounts withheld under the backup withholding rules from a payment to a non-U.S. holder may be refunded or credited against the non-U.S. holder’s U.S. federal income tax liability, if any, provided that an appropriate claim is timely filed with the IRS.

### **Foreign Account Tax Compliance Act**

Provisions of the Code commonly referred to as the Foreign Account Tax Compliance Act and associated guidance (collectively, “FATCA”) generally impose a 30% withholding tax on any “withholdable payment” (as defined below) to a “foreign financial institution” (as defined in the Code) (including, in some cases, when such foreign financial institution is acting as an intermediary), unless such institution enters into an agreement with the U.S. government to collect and provide to the U.S. tax authorities substantial information regarding U.S. account holders of such institution (which would include certain equity and debt holders of such institution, as well as

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certain account holders that are foreign entities with substantial U.S. owners) or another applicable exception applies or such institution is compliant with applicable foreign law enacted in connection with an applicable intergovernmental agreement governing FATCA between the United States and a foreign jurisdiction. FATCA will also generally impose a 30% withholding tax on any “withholdable payment” (as defined below) to a foreign entity that is not a financial institution (including, in some cases, when such entity is acting as an intermediary), unless such entity provides the applicable withholding agent with a certification identifying the substantial U.S. owners of the entity (which, subject to certain exceptions, generally includes any United States person who directly or indirectly owns more than 10% of the entity), if any, or another applicable exception applies. Under applicable U.S. Treasury Regulations, “withholdable payments” currently include payments of dividends on our common stock. Currently proposed U.S. Treasury Regulations (the preamble to which specifies that taxpayers are permitted to rely on them pending finalization) provide that FATCA withholding does not apply to gross proceeds from the disposition of property of a type which can produce U.S. source dividends or interest; however, prior versions of the rules would have made such gross proceeds subject to FATCA withholding. Taxpayers (including withholding agents) can currently rely on the proposed U.S. Treasury Regulations that eliminate FATCA withholding on the gross proceeds from a disposition of our common stock. Under certain circumstances, a non-U.S. holder might be eligible for refunds or credits of any taxes withheld pursuant to FATCA.

The preceding discussion of material U.S. federal income tax considerations is for general information only. It is not tax advice. Prospective investors should consult their own tax advisors regarding the particular U.S. federal, state, and local and non-U.S. tax consequences of purchasing, holding, and disposing of our common stock, including the consequences of any proposed changes in applicable laws.

**UNDERWRITING**

Under the terms and subject to the conditions in an underwriting agreement dated the date of this prospectus, the underwriters named below, for whom Morgan Stanley & Co. LLC and J.P. Morgan Securities LLC are acting as representatives, have severally agreed to purchase, and we have agreed to sell to them, severally, the number of shares indicated below:

| <u>Name</u>                | <u>Number of Shares</u>  |
|----------------------------|--------------------------|
| Morgan Stanley & Co. LLC   |                          |
| J.P. Morgan Securities LLC |                          |
| Total                      | <u><u>          </u></u> |

The underwriters and the representatives are collectively referred to as the “underwriters” and the “representatives,” respectively. The underwriters are offering the shares of common stock subject to their acceptance of the shares from us and subject to prior sale. The underwriting agreement provides that the obligations of the several underwriters to pay for and accept delivery of the shares of common stock offered by this prospectus are subject to the approval of certain legal matters by their counsel and to certain other conditions. The underwriters are obligated to take and pay for all of the shares of common stock offered by this prospectus if any such shares are taken. However, the underwriters are not required to take or pay for the shares covered by the underwriters’ over-allotment option described below.

The underwriters initially propose to offer part of the shares of common stock directly to the public at the offering price listed on the cover page of this prospectus and part to certain dealers at a price that represents a concession not in excess of \$            per share under the public offering price. After the initial offering of the shares of common stock, the offering price and other selling terms may from time to time be varied by the representatives.

We have granted to the underwriters an option, exercisable for 30 days from the date of this prospectus, to purchase up to            additional shares of common stock at the public offering price listed on the cover page of this prospectus, less underwriting discounts and commissions. The underwriters may exercise this option solely for the purpose of covering over-allotments, if any, made in connection with the offering of the shares of common stock offered by this prospectus. To the extent the option is exercised, each underwriter will become obligated, subject to certain conditions, to purchase about the same percentage of the additional shares of common stock as the number listed next to the underwriter’s name in the preceding table bears to the total number of shares of common stock listed next to the names of all underwriters in the preceding table.

The following table shows the per share and total public offering price, underwriting discounts and commissions, and proceeds before expenses to us. These amounts are shown assuming both no exercise and full exercise of the underwriters’ option to purchase up to an additional            shares of common stock.

|  | <u>Per Share</u> | <u>Total</u>       |                      |
|--|------------------|--------------------|----------------------|
|  |                  | <u>No Exercise</u> | <u>Full Exercise</u> |
| Initial public offering price                            | \$               | \$                 | \$                   |
| Underwriting discounts and commissions to be paid by us: | \$               | \$                 | \$                   |
| Proceeds, before expenses, to us                         | \$               | \$                 | \$                   |

The estimated offering expenses payable by us, exclusive of the underwriting discounts and commissions, are approximately \$            . We have agreed to reimburse the underwriters for expenses relating to clearance of this offering with the Financial Industry Regulatory Authority up to \$            .

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The underwriters have informed us that they do not intend sales to discretionary accounts to exceed 5% of the total number of shares of common stock offered by them.

We intend to list our common stock on \_\_\_\_\_ under the trading symbol “\_\_\_\_\_.”

We, our directors and executive officers, and certain holders of our common stock and securities exercisable for or convertible into our common stock will sign lock-up agreements that prevent us and them from selling any of our common stock or any securities exercisable for or convertible into our common stock for a period of not less than \_\_\_\_\_ days from the date of this prospectus without the prior written consent of \_\_\_\_\_ on behalf of the underwriters, subject to certain exceptions.

In order to facilitate the offering of the common stock, the underwriters may engage in transactions that stabilize, maintain, or otherwise affect the price of the common stock. Specifically, the underwriters may sell more shares than they are obligated to purchase under the underwriting agreement, creating a short position. A short sale is covered if the short position is no greater than the number of shares available for purchase by the underwriters under the over-allotment option. The underwriters can close out a covered short sale by exercising the over-allotment option or purchasing shares in the open market. In determining the source of shares to close out a covered short sale, the underwriters will consider, among other things, the open market price of shares compared to the price available under the over-allotment option. The underwriters may also sell shares in excess of the over-allotment option, creating a naked short position. The underwriters must close out any naked short position by purchasing shares in the open market. A naked short position is more likely to be created if the underwriters are concerned that there may be downward pressure on the price of the common stock in the open market after pricing that could adversely affect investors who purchase in this offering. As an additional means of facilitating this offering, the underwriters may bid for, and purchase, shares of common stock in the open market to stabilize the price of the common stock. These activities may raise or maintain the market price of the common stock above independent market levels or prevent or retard a decline in the market price of the common stock. The underwriters are not required to engage in these activities and may end any of these activities at any time.

We and the underwriters have agreed to indemnify each other against certain liabilities, including liabilities under the Securities Act.

A prospectus in electronic format may be made available on websites maintained by one or more underwriters, or selling group members, if any, participating in this offering. The representatives may agree to allocate a number of shares of common stock to underwriters for sale to their online brokerage account holders. Internet distributions will be allocated by the representatives to underwriters that may make Internet distributions on the same basis as other allocations.

The underwriters and their respective affiliates are full service financial institutions engaged in various activities, which may include securities trading, commercial and investment banking, financial advisory, investment management, investment research, principal investment, hedging, financing, and brokerage activities. Certain of the underwriters and their respective affiliates have, from time to time, performed, and may in the future perform, various financial advisory and investment banking services for us, for which they received or will receive customary fees and expenses.

In addition, in the ordinary course of their various business activities, the underwriters and their respective affiliates may make or hold a broad array of investments and actively trade debt and equity securities (or related derivative securities) and financial instruments (including bank loans) for their own account and for the accounts of their customers and may at any time hold long and short positions in such securities and instruments. Such investment and securities activities may involve our securities and instruments. The underwriters and their respective affiliates may also make investment recommendations or publish or express independent research views in respect of such securities or instruments and may at any time hold, or recommend to clients that they acquire, long or short positions in such securities and instruments.



## **Pricing of the Offering**

Prior to this offering, there has been no public market for our common stock. The initial public offering price will be determined by negotiations between us and the representatives. Among the factors to be considered in determining the initial public offering price will be our future prospects and those of our industry in general, our sales, earnings and certain other financial and operating information in recent periods, and the price-earnings ratios, price-sales ratios, market prices of securities, and certain financial and operating information of companies engaged in activities similar to ours.

## **Selling Restrictions**

### ***Canada***

The shares may be sold only to purchasers purchasing, or deemed to be purchasing, as principal that are accredited investors, as defined in National Instrument 45-106 Prospectus Exemptions or subsection 73.3(1) of the Securities Act (Ontario), and are permitted clients, as defined in National Instrument 31-103 Registration Requirements, Exemptions and Ongoing Registrant Obligations. Any resale of the shares must be made in accordance with an exemption from, or in a transaction not subject to, the prospectus requirements of applicable securities laws.

Securities legislation in certain provinces or territories of Canada may provide a purchaser with remedies for rescission or damages if this prospectus (including any amendment thereto) contains a misrepresentation, *provided* that the remedies for rescission or damages are exercised by the purchaser within the time limit prescribed by the securities legislation of the purchaser's province or territory. The purchaser should refer to any applicable provisions of the securities legislation of the purchaser's province or territory for particulars of these rights or consult with a legal advisor.

Pursuant to section 3A.3 of National Instrument 33-105 Underwriting Conflicts (NI 33-105), the underwriters are not required to comply with the disclosure requirements of NI 33-105 regarding underwriter conflicts of interest in connection with this offering.

### ***European Economic Area***

In relation to each Member State of the European Economic Area (each, a "Relevant State"), no shares have been offered or will be offered pursuant to the offering to the public in that Relevant State prior to the publication of a prospectus in relation to the shares which has been approved by the competent authority in that Relevant State or, where appropriate, approved in another Relevant State and notified to the competent authority in that Relevant State, all in accordance with the Prospectus Regulation, except that offers of shares may be made to the public in that Relevant State at any time under the following exemptions under the Prospectus Regulation:

- (a) to any legal entity which is a "qualified investor" as defined under Article 2 of the Prospectus Regulation;
- (b) to fewer than 150 natural or legal persons (other than "qualified investors" as defined under Article 2 of the Prospectus Regulation), subject to obtaining the prior consent of the representatives for any such offer; or
- (c) in any other circumstances falling within Article 1(4) of the Prospectus Regulation,

*provided* that no such offer of the shares shall require us or any underwriter to publish a prospectus pursuant to Article 3 of the Prospectus Regulation or supplement a prospectus pursuant to Article 23 of the Prospectus Regulation and each person who initially acquires any shares or to whom any offer is made will be deemed to have represented, acknowledged and agreed to and with each of the underwriters and us that it is a "qualified investor" within the meaning of Article 2 of the Prospectus Regulation. In the case of any shares being offered to

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a financial intermediary as that term is used in the Prospectus Regulation, each such financial intermediary will be deemed to have represented, acknowledged and agreed that the shares acquired by it in the offer have not been acquired on a non-discretionary basis on behalf of, nor have they been acquired with a view to their offer or resale to, persons in circumstances which may give rise to an offer of any shares to the public other than their offer or resale in a Relevant State to qualified investors as so defined or in circumstances in which the prior consent of the underwriters have been obtained to each such proposed offer or resale.

For the purposes of this provision, the expression an “offer to the public” in relation to the shares in any Relevant State means the communication in any form and by any means of sufficient information on the terms of the offer and any shares to be offered so as to enable an investor to decide to purchase or subscribe for any shares, and the expression “Prospectus Regulation” means Regulation (EU) 2017/1129 (as amended).

### ***United Kingdom***

No shares have been offered or will be offered pursuant to the offering to the public in the United Kingdom prior to the publication of a prospectus in relation to the shares which has been approved by the Financial Conduct Authority, except that offers of shares may be made to the public in the United Kingdom at any time under the following exemptions under the UK Prospectus Regulation:

- (a) to any legal entity which is a “qualified investor” as defined under Article 2 of the UK Prospectus Regulation;
- (b) to fewer than 150 natural or legal persons (other than “qualified investors” as defined under Article 2 of the UK Prospectus Regulation), subject to obtaining the prior consent of the representatives for any such offer; or
- (c) in any other circumstances falling within Section 86 of the Financial Services and Markets Act 2000 (as amended, “FSMA”),

*provided* that no such offer of the shares shall require us or any underwriter to publish a prospectus pursuant to Section 85 of the FSMA or supplement a prospectus pursuant to Article 23 of the UK Prospectus Regulation and each person who initially acquires any shares or to whom any offer is made will be deemed to have represented, acknowledged and agreed to and with each of the underwriters and us that it is a “qualified investor” within the meaning of Article 2 of the UK Prospectus Regulation.

We, the underwriters, and their affiliates will rely upon the truth and accuracy of the foregoing representations, warranties, and agreements. Notwithstanding the above, a person who is not a “qualified investor” and who has notified the underwriters of such fact in writing may, with the prior consent of the underwriters, be permitted to acquire shares in the offering.

For the purposes of this provision, the expression an “offer to the public” in relation to the shares in the United Kingdom means the communication in any form and by any means of sufficient information on the terms of the offer and any shares to be offered so as to enable an investor to decide to purchase or subscribe for any shares, and the expression “UK Prospectus Regulation” means Regulation (EU) 2017/1129 as it forms part of domestic law by virtue of the European Union (Withdrawal) Act 2018.

### ***Hong Kong***

The shares have not been offered or sold and will not be offered or sold in Hong Kong, by means of any document, other than (a) to “professional investors” as defined in the Securities and Futures Ordinance (Cap. 571 of the Laws of Hong Kong) (the “SFO”) of Hong Kong and any rules made thereunder; or (b) in other circumstances which do not result in the document being a “prospectus” as defined in the Companies (Winding Up and Miscellaneous Provisions) Ordinance (Cap. 32) of Hong Kong (the “CO”) or which do not constitute an

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offer to the public within the meaning of the CO. No advertisement, invitation, or document relating to the shares has been or may be issued or has been or may be in the possession of any person for the purposes of issue, whether in Hong Kong or elsewhere, which is directed at, or the contents of which are likely to be accessed or read by, the public of Hong Kong (except if permitted to do so under the securities laws of Hong Kong) other than with respect to shares which are or are intended to be disposed of only to persons outside Hong Kong or only to “professional investors” as defined in the SFO and any rules made thereunder.

### ***Japan***

No registration pursuant to Article 4, paragraph 1 of the Financial Instruments and Exchange Law of Japan (Law No. 25 of 1948, as amended) (the “FIEL”) has been made or will be made with respect to the solicitation of the application for the acquisition of the shares of common stock.

Accordingly, the shares of common stock have not been, directly or indirectly, offered or sold and will not be, directly or indirectly, offered or sold in Japan or to, or for the benefit of, any resident of Japan (which term as used herein means any person resident in Japan, including any corporation or other entity organized under the laws of Japan) or to others for re-offering or re-sale, directly or indirectly, in Japan or to, or for the benefit of, any resident of Japan except pursuant to an exemption from the registration requirements, and otherwise in compliance with, the FIEL and the other applicable laws and regulations of Japan.

#### *For Qualified Institutional Investors (“QII”)*

Please note that the solicitation for newly-issued or secondary securities (each as described in Paragraph 2, Article 4 of the FIEL) in relation to the shares of common stock constitutes either a “QII only private placement” or a “QII only secondary distribution” (each as described in Paragraph 1, Article 23-13 of the FIEL). Disclosure regarding any such solicitation, as is otherwise prescribed in Paragraph 1, Article 4 of the FIEL, has not been made in relation to the shares of common stock. The shares of common stock may only be transferred to QIIs.

#### *For Non-QII Investors*

Please note that the solicitation for newly-issued or secondary securities (each as described in Paragraph 2, Article 4 of the FIEL) in relation to the shares of common stock constitutes either a “small number private placement” or a “small number private secondary distribution” (each as is described in Paragraph 4, Article 23-13 of the FIEL). Disclosure regarding any such solicitation, as is otherwise prescribed in Paragraph 1, Article 4 of the FIEL, has not been made in relation to the shares of common stock. The shares of common stock may only be transferred en bloc without subdivision to a single investor.

### ***Singapore***

This prospectus has not been registered as a prospectus with the Monetary Authority of Singapore. Accordingly, this prospectus and any other document or material in connection with the offer or sale, or invitation for subscription or purchase, of shares of our common stock may not be circulated or distributed, nor may the shares of our common stock be offered or sold, or be made the subject of an invitation for subscription or purchase, whether directly or indirectly, to persons in Singapore other than (i) to an institutional investor under Section 274 of the Securities and Futures Act, Chapter 289 of Singapore (the SFA); (ii) to a relevant person, or any person pursuant to Section 275(1A), and in accordance with the conditions, specified in Section 275 of the SFA; or (iii) otherwise pursuant to, and in accordance with the conditions of, any other applicable provision of the SFA.

Where shares of our common stock are subscribed or purchased under Section 275 by a relevant person which is: (i) a corporation (which is not an accredited investor) the sole business of which is to hold investments and the entire share capital of which is owned by one or more individuals, each of whom is an accredited

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investor; or (ii) a trust (where the trustee is not an accredited investor) whose sole purpose is to hold investments and each beneficiary is an accredited investor, shares, debentures and units of shares and debentures of that corporation or the beneficiaries' rights and interest in that trust shall not be transferable for six months after that corporation or that trust has acquired shares of our common stock under Section 275 except: (a) to an institutional investor under Section 274 of the SFA or to a relevant person, or any person pursuant to Section 275(1A), and in accordance with the conditions, specified in Section 275 of the SFA; (b) where no consideration is given for the transfer; or (c) by operation of law.

Solely for the purposes of its obligations pursuant to Sections 309B(1)(a) and 309B(1)(c) of the SFA, we have determined, and hereby notify all relevant persons (as defined in Section 309A of the SFA) that the shares are "prescribed capital markets products" (as defined in the Securities and Futures (Capital Markets Products) Regulations 2018) and Excluded Investment Products (as defined in MAS Notice SFA 04-N12: Notice on the Sale of Investment Products and MAS Notice FAA-N16: Notice on Recommendations on Investment Products).

### ***Switzerland***

The shares may not be publicly offered in Switzerland and will not be listed on the SIX Swiss Exchange ("SIX") or on any other stock exchange or regulated trading facility in Switzerland. This document does not constitute a prospectus within the meaning of, and has been prepared without regard to the disclosure standards for issuance prospectuses under art. 652a or art. 1156 of the Swiss Code of Obligations or the disclosure standards for listing prospectuses under art. 27 ff. of the SIX Listing Rules or the listing rules of any other stock exchange or regulated trading facility in Switzerland. Neither this document nor any other offering or marketing material relating to the shares or the offering may be publicly distributed or otherwise made publicly available in Switzerland.

Neither this document nor any other offering or marketing material relating to the offering, us, or the shares have been or will be filed with or approved by any Swiss regulatory authority. In particular, this document will not be filed with, and the offer of shares will not be supervised by, the Swiss Financial Market Supervisory Authority FINMA (FINMA), and the offer of shares has not been and will not be authorized under the Swiss Federal Act on Collective Investment Schemes ("CISA"). The investor protection afforded to acquirers of interests in collective investment schemes under the CISA does not extend to acquirers of shares.

### ***Dubai International Financial Centre***

This prospectus relates to an Exempt Offer in accordance with the Offered Securities Rules of the Dubai Financial Services Authority ("DFSA"). This prospectus is intended for distribution only to persons of a type specified in the Offered Securities Rules of the DFSA. It must not be delivered to, or relied on by, any other person. The DFSA has no responsibility for reviewing or verifying any documents in connection with Exempt Offers. The DFSA has not approved this prospectus nor taken steps to verify the information set forth herein and has no responsibility for the prospectus. The shares to which this prospectus relates may be illiquid and/or subject to restrictions on their resale. Prospective purchasers of the shares offered should conduct their own due diligence on the shares. If you do not understand the contents of this prospectus you should consult an authorized financial advisor.

### ***Australia***

No placement document, prospectus, product disclosure statement, or other disclosure document has been lodged with the Australian Securities and Investments Commission in relation to this offering. This prospectus does not constitute a prospectus, product disclosure statement, or other disclosure document under the Corporations Act 2001 (the "Corporations Act") and does not purport to include the information required for a prospectus, product disclosure statement, or other disclosure document under the Corporations Act.

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Any offer in Australia of our common stock may only be made to persons (“Exempt Investors”) who are “sophisticated investors” (within the meaning of section 708(8) of the Corporations Act), “professional investors” (within the meaning of section 708(11) of the Corporations Act), or otherwise pursuant to one or more exemptions contained in section 708 of the Corporations Act so that it is lawful to offer our common stock without disclosure to investors under Chapter 6D of the Corporations Act.

The common stock applied for by Exempt Investors in Australia must not be offered for sale in Australia in the period of 12 months after the date of allotment under the offering, except in circumstances where disclosure to investors under Chapter 6D of the Corporations Act would not be required pursuant to an exemption under section 708 of the Corporations Act or otherwise or where the offer is pursuant to a disclosure document which complies with Chapter 6D of the Corporations Act. Any person acquiring securities must observe such Australian on-sale restrictions.

This prospectus contains general information only and does not take account of the investment objectives, financial situation, or particular needs of any particular person. It does not contain any securities recommendations or financial product advice. Before making an investment decision, investors need to consider whether the information in this prospectus is appropriate to their needs, objectives and circumstances, and, if necessary, seek expert advice on those matters.

### *Israel*

In the State of Israel this prospectus shall not be regarded as an offer to the public to purchase shares of common stock under the Israeli Securities Law, 5728—1968, which requires a prospectus to be published and authorized by the Israel Securities Authority, if it complies with certain provisions of Section 15 of the Israeli Securities Law, 5728—1968, including, inter alia, if: (i) the offer is made, distributed or directed to not more than 35 investors, subject to certain conditions (the “Addressed Investors”), or (ii) the offer is made, distributed or directed to certain qualified investors defined in the First Addendum of the Israeli Securities Law, 5728—1968, subject to certain conditions (the “Qualified Investors”). The Qualified Investors shall not be taken into account in the count of the Addressed Investors and may be offered to purchase securities in addition to the 35 Addressed Investors. We have not and will not take any action that would require it to publish a prospectus in accordance with and subject to the Israeli Securities Law, 5728—1968. We have not and will not distribute this prospectus or make, distribute or direct an offer to subscribe for our common stock to any person within the State of Israel, other than to Qualified Investors and up to 35 Addressed Investors.

Qualified Investors may have to submit written evidence that they meet the definitions set out in of the First Addendum to the Israeli Securities Law, 5728—1968. In particular, we may request, as a condition to be offered common stock, that Qualified Investors will each represent, warrant, and certify to us and/or to anyone acting on our behalf: (i) that it is an investor falling within one of the categories listed in the First Addendum to the Israeli Securities Law, 5728—1968; (ii) which of the categories listed in the First Addendum to the Israeli Securities Law, 5728—1968 regarding Qualified Investors is applicable to it; (iii) that it will abide by all provisions set forth in the Israeli Securities Law, 5728—1968 and the regulations promulgated thereunder in connection with the offer to be issued common stock; (iv) that the shares of common stock that it will be issued are, subject to exemptions available under the Israeli Securities Law, 5728—1968: (a) for its own account; (b) for investment purposes only; and (c) not issued with a view to resale within the State of Israel, other than in accordance with the provisions of the Israeli Securities Law, 5728—1968; and (v) that it is willing to provide further evidence of its Qualified Investor status. Addressed Investors may have to submit written evidence in respect of their identity and may have to sign and submit a declaration containing, inter alia, the Addressed Investor’s name, address, and passport number or Israeli identification number.

## LEGAL MATTERS

Goodwin Procter LLP, Redwood City, California, which is acting as our counsel in connection with this offering, will pass upon the validity of the shares of our common stock being offered by this prospectus. The underwriters are being represented by Simpson Thacher & Bartlett LLP, Palo Alto, California.

## EXPERTS

The financial statements as of December 31, 2022 and for the year then ended included in this prospectus have been so included in reliance on the report of PricewaterhouseCoopers LLP, an independent registered public accounting firm, given on the authority of said firm as experts in auditing and accounting.

## WHERE YOU CAN FIND ADDITIONAL INFORMATION

We have filed with the SEC a registration statement on Form S-1 under the Securities Act with respect to the shares of common stock offered by this prospectus. This prospectus, which constitutes a part of the registration statement, does not contain all of the information set forth in the registration statement, some of which is contained in exhibits to the registration statement as permitted by the rules and regulations of the SEC. For further information with respect to us and our common stock, we refer you to the registration statement, including the exhibits filed as a part of the registration statement. Statements contained in this prospectus concerning the contents of any contract or any other document are not necessarily complete. If a contract or document has been filed as an exhibit to the registration statement, please see the copy of the contract or document that has been filed. Each statement in this prospectus relating to a contract or document filed as an exhibit is qualified in all respects by the filed exhibit. The SEC also maintains an internet website that contains reports, proxy statements, and other information about issuers, like us, that file electronically with the SEC. The address of that website is [www.sec.gov](http://www.sec.gov).

As a result of this offering, we will become subject to the information and reporting requirements of the Exchange Act and, in accordance with this law, will file periodic reports, proxy statements, and other information with the SEC. These periodic reports, proxy statements, and other information will be available for inspection and copying at the SEC's public reference facilities and the website of the SEC referred to above. We also maintain a website at [www.asteralabs.com](http://www.asteralabs.com). Upon completion of this offering, you may access these materials free of charge as soon as reasonably practicable after they are electronically filed with, or furnished to, the SEC. Information contained on our website is not a part of this prospectus and the inclusion of our website address in this prospectus is intended to be an inactive textual reference only.

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**REPORT OF INDEPENDENT REGISTERED PUBLIC ACCOUNTING FIRM**

To the Board of Directors and Stockholders of Astera Labs, Inc.

**Opinion on the Financial Statements**

We have audited the accompanying consolidated balance sheet of Astera Labs, Inc. and its subsidiaries (the “Company”) as of December 31, 2022, and the related consolidated statements of operations and comprehensive loss, of changes in redeemable convertible preferred stock and stockholders’ deficit and of cash flows for the year then ended, including the related notes (collectively referred to as the “consolidated financial statements”). In our opinion, the consolidated financial statements present fairly, in all material respects, the financial position of the Company as of December 31, 2022, and the results of its operations and its cash flows for the year then ended in conformity with accounting principles generally accepted in the United States of America.

**Basis for Opinion**

These consolidated financial statements are the responsibility of the Company’s management. Our responsibility is to express an opinion on the Company’s consolidated financial statements based on our audits. We are a public accounting firm registered with the Public Company Accounting Oversight Board (United States) (PCAOB) and are required to be independent with respect to the Company in accordance with the U.S. federal securities laws and the applicable rules and regulations of the Securities and Exchange Commission and the PCAOB.

We conducted our audit of these consolidated financial statements in accordance with the standards of the PCAOB and in accordance with auditing standards generally accepted in the United States of America. Those standards require that we plan and perform the audit to obtain reasonable assurance about whether the consolidated financial statements are free of material misstatement, whether due to error or fraud.

Our audit included performing procedures to assess the risks of material misstatement of the consolidated financial statements, whether due to error or fraud, and performing procedures that respond to those risks. Such procedures included examining, on a test basis, evidence regarding the amounts and disclosures in the consolidated financial statements. Our audit also included evaluating the accounting principles used and significant estimates made by management, as well as evaluating the overall presentation of the consolidated financial statements. We believe that our audit provides a reasonable basis for our opinion.

/s/ PricewaterhouseCoopers LLP  
Seattle, Washington

March 7, 2023, except for Note 2 and the effects of disclosing net loss per share information discussed in Note 11 to the consolidated financial statements, as to which the date is November 13, 2023

We have served as the Company’s auditor since 2021.



**ASTERA LABS, INC., CONSOLIDATED BALANCE SHEET, DECEMBER 31, 2022**  
(In thousands, except par values)

|   | As of December 31,<br>2022 |
|---|----------------------------|
| <b>Assets</b>   |                            |
| Current assets  |                            |
| Cash and cash equivalents   | \$ 76,088                  |
| Marketable securities   | 87,056                     |
| Accounts receivable, net  | 10,721                     |
| Inventory   | 28,874                     |
| Prepaid expenses and other current assets   | 3,266                      |
| Total current assets  | 206,005                    |
| Property and equipment, net   | 3,524                      |
| Other assets  | 2,202                      |
| Total assets  | \$ 211,731                 |
| <b>Liabilities, Redeemable Convertible Preferred Stock and Stockholders' Deficit</b>  |                            |
| Current liabilities   |                            |
| Accounts payable  | \$ 10,295                  |
| Accrued payroll   | 8,029                      |
| Accrued software license costs  | 4,107                      |
| Accrued expenses and other current liabilities  | 17,659                     |
| Total current liabilities   | 40,090                     |
| Other liabilities   | 1,806                      |
| Total liabilities   | 41,896                     |
| Commitments and contingencies (Note 7)  |                            |
| Redeemable convertible preferred stock, \$0.0001 par value; 182,262 shares authorized as of December 31, 2022; 181,781 shares issued and outstanding as of December 31, 2022; liquidation preference of \$265,699 as of December 31, 2022 | 255,127                    |
| Stockholders' deficit   |                            |
| Common stock, \$0.0001 par value; 325,283 shares authorized as of December 31, 2022; 81,259 shares issued and outstanding as of December 31, 2022   | 8                          |
| Additional paid-in capital  | 14,047                     |
| Accumulated other comprehensive loss  | (229)                      |
| Accumulated deficit   | (99,118)                   |
| Total stockholders' deficit   | (85,292)                   |
| Total liabilities, redeemable convertible preferred stock and stockholders' deficit   | \$ 211,731                 |

The accompanying notes are an integral part of these consolidated financial statements.

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**ASTERA LABS, INC., CONSOLIDATED STATEMENT OF OPERATIONS AND COMPREHENSIVE LOSS, YEAR ENDED  
DECEMBER 31, 2022**

(In thousands, except per share amounts)

|   | Year Ended December 31,<br>2022 |
|---|---------------------------------|
| Revenue   | \$ 79,872                       |
| Cost of revenue   | 21,191                          |
| Gross profit  | 58,681                          |
| Operating expenses  |                                 |
| Research and development  | 73,711                          |
| Sales and marketing   | 24,407                          |
| General and administrative  | 20,757                          |
| Total operating expenses  | 118,875                         |
| Operating loss  | (60,194)                        |
| Interest income   | 2,613                           |
| Loss before income taxes  | (57,581)                        |
| Income tax provision  | 764                             |
| Net loss  | (58,345)                        |
| Other comprehensive loss  |                                 |
| Unrealized losses on marketable securities, net of taxes  | (229)                           |
| Total other comprehensive loss  | (229)                           |
| Total comprehensive loss  | \$ (58,574)                     |
| Net loss per share attributable to common stockholders:   |                                 |
| Basic and diluted   | \$ (0.85)                       |
| Weighted-average shares used in calculating net loss per share attributable to common stockholders: |                                 |
| Basic and diluted   | 68,343                          |

The accompanying notes are an integral part of these consolidated financial statements.

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**ASTERA LABS, INC., CONSOLIDATED STATEMENT OF CHANGES IN REDEEMABLE CONVERTIBLE PREFERRED STOCK AND STOCKHOLDERS' DEFICIT, YEAR ENDED DECEMBER 31, 2022**

(In thousands)

|  | Redeemable Convertible Preferred Stock |                   | Common Stock  |             | Additional Paid-in Capital | Accumulated Other Comprehensive Loss | Accumulated Deficit | Total Stockholders' Deficit |
|--|--|-------------------|---------------|-------------|----------------------------|--------------------------------------|---------------------|-----------------------------|
|  | Shares                                 | Amount            | Shares        | Amount      |                            |                                      |                     |                             |
| <b>Balances as of December 31, 2021</b>  | 165,205                                | \$ 86,689         | 79,143        | \$ 8        | \$ 1,002                   | \$ —                                 | \$ (40,773)         | \$ (39,763)                 |
| Issuance of common stock upon exercise of stock options and vesting of early exercised stock options | —                                      | —                 | 4,082         | —           | 1,341                      | —                                    | —                   | 1,341                       |
| Vesting of warrants to a customer  | —                                      | —                 | —             | —           | 344                        | —                                    | —                   | 344                         |
| Repurchase of common stock upon termination  | —                                      | —                 | (140)         | —           | (303)                      | —                                    | —                   | (303)                       |
| Issuance of Series D preferred stock, net of issuance costs  | 14,750                                 | 149,866           | —             | —           | —                          | —                                    | —                   | —                           |
| Exchange of common stock to Series D preferred stock   | 1,826                                  | 18,572            | (1,826)       | —           | (18,572)                   | —                                    | —                   | (18,572)                    |
| Stock-based compensation   | —                                      | —                 | —             | —           | 30,235                     | —                                    | —                   | 30,235                      |
| Unrealized losses on marketable securities   | —                                      | —                 | —             | —           | —                          | (229)                                | —                   | (229)                       |
| Net loss   | —                                      | —                 | —             | —           | —                          | —                                    | (58,345)            | (58,345)                    |
| <b>Balances as of December 31, 2022</b>  | <u>181,781</u>                         | <u>\$ 255,127</u> | <u>81,259</u> | <u>\$ 8</u> | <u>\$ 14,047</u>           | <u>\$ (229)</u>                      | <u>\$ (99,118)</u>  | <u>\$ (85,292)</u>          |

The accompanying notes are an integral part of these consolidated financial statements.

## ASTERA LABS, INC., CONSOLIDATED STATEMENT OF CASH FLOWS, YEAR ENDED DECEMBER 31, 2022

(In thousands)

|   | Year Ended December 31,<br>2022 |
|---|---------------------------------|
| <b>Cash flows from operating activities</b>   |                                 |
| Net loss  | \$ (58,345)                     |
| Adjustments to reconcile net loss to net cash used in operating activities              |                                 |
| Stock-based compensation  | 30,235                          |
| Inventory write-down  | 110                             |
| Depreciation and amortization   | 807                             |
| Non-cash operating lease expense  | 1,448                           |
| Other, net  | (182)                           |
| Changes in operating assets and liabilities   |                                 |
| Accounts receivable, net  | (6,037)                         |
| Inventory   | (19,358)                        |
| Prepaid expenses and other assets   | (1,332)                         |
| Accounts payable  | 2,126                           |
| Accrued expenses and other liabilities  | 15,950                          |
| Operating lease liability   | (1,320)                         |
| Net cash used in operating activities   | (35,898)                        |
| <b>Cash flows from investing activities</b>   |                                 |
| Purchases of property and equipment   | (3,873)                         |
| Purchases of marketable securities  | (88,713)                        |
| Maturities of marketable securities   | 1,000                           |
| Sales of marketable securities  | 996                             |
| Net cash used in investing activities   | (90,590)                        |
| <b>Cash flows from financing activities</b>   |                                 |
| Proceeds from issuance of redeemable convertible preferred stock, net of issuance costs | 149,866                         |
| Proceeds from exercises of stock options  | 2,115                           |
| Repurchase of common stock upon termination   | (313)                           |
| Net cash provided by financing activities   | 151,668                         |
| Net increase in cash and cash equivalents   | 25,180                          |
| <b>Cash and cash equivalents</b>  |                                 |
| Beginning of the year   | 50,908                          |
| End of the year   | \$ 76,088                       |
| <b>Noncash investing and financing activities</b>                                       |                                 |
| Exchange of common stock to Series D redeemable convertible preferred stock             | \$ 18,572                       |
| Vesting of early exercised stock options  | \$ 763                          |

The accompanying notes are an integral part of these consolidated financial statements.

**ASTERA LABS, INC., NOTES TO CONSOLIDATED FINANCIAL STATEMENTS DECEMBER 31, 2022**

**1. Nature of Business and Summary of Significant Accounting Policies**

**Description of Business**

Astera Labs, Inc. (the “Company”) offers an Intelligent Connectivity Platform, comprised of:

- i) Semiconductor-based, high-speed, mixed-signal connectivity products that integrate a matrix of microcontrollers and sensors; and
- ii) COSMOS, our software suite which is embedded in our connectivity products and integrated into our customers’ systems.

The Company delivers critical connectivity performance, enables flexibility and customization, and supports observability and predictive analytics. This approach addresses the data, network, and memory bottlenecks, scalability, and other infrastructure requirements of hyperscalers and system original equipment manufacturers (OEMs).

**Basis of Presentation**

The consolidated financial statements and accompanying notes were prepared in accordance with accounting principles generally accepted in the United States of America (“GAAP”).

**Principles of Consolidation**

The consolidated financial statements include the accounts of Astera Labs, Inc. and its wholly owned subsidiaries in Canada and Taiwan. All intercompany balances and transactions have been eliminated in consolidation.

**Use of Estimates**

The preparation of consolidated financial statements in conformity with GAAP requires management to make estimates and assumptions that affect the reported amounts of assets and liabilities and disclosure of contingent assets and liabilities at the date of the financial statements and the reported amounts of revenue and expenses during the reporting period. The Company’s significant estimates include the useful lives and recoverability of long-lived assets, the valuation of deferred tax assets, reserves for uncertain tax positions, the valuation of inventory, warranty reserve, the fair value of marketable securities, the grant date fair value of common stock warrants, the valuation and assumptions underlying stock-based compensation including the per share fair value of the Company’s common stock, and the incremental borrowing rate used in the Company’s operating lease calculations. By their nature, estimates are subject to an inherent degree of uncertainty and actual results could differ from those estimates.

The Company assessed certain accounting matters and estimates that generally require consideration of forecasted information using the information reasonably available to the Company. Management is not aware of any specific event or circumstance that would require an update to estimates or judgments or a revision to the carrying value of assets or liabilities. These estimates and judgments may change as new events occur and additional information is obtained, which may result in changes being recognized in the Company’s consolidated financial statements in future periods.

**Revenue Recognition**

The Company recognizes revenue upon transfer of control of promised goods and services in an amount that reflects the consideration it expects to receive in exchange for those goods and services. Under Accounting

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Standards Codification (“ASC”) 606, *Revenue from Contracts with Customers* (“ASC 606”), the Company applies the following five step approach: (1) identify the contract with a customer, (2) identify the performance obligations in the contract, (3) determine the transaction price, (4) allocate the transaction price to the performance obligations in the contract, and (5) recognize revenue when, or as, a performance obligation is satisfied.

The following table presents revenue disaggregated by type (in thousands):

|                      | <b>Year Ended<br/>December 31, 2022</b> |
|----------------------|---|
| Product sales        | \$ 78,234                               |
| Engineering services | 1,638                                   |
| <b>Total revenue</b> | <b>\$ 79,872</b>                        |

Where an arrangement includes multiple performance obligations, the transaction price is allocated to each performance obligation on a relative standalone selling price (“SSP”) basis. The Company determines the SSP based on an observable standalone selling price when it is available, as well as other factors, including the price charged to customers and the Company’s overall pricing objectives, while maximizing observable inputs.

Accounts receivable are recorded when the customer has been billed or the right to consideration is unconditional. The Company records deferred revenue when it has received consideration, or an amount of consideration is due from the customer, and the Company has a future obligation to transfer products or services. As of December 31, 2022, the Company had no deferred revenue. From time to time, the Company has contracts with initial terms that include performance obligations that extend beyond one year. As of December 31, 2022, the Company’s future performance obligations beyond one year were not significant.

### ***Product Sales***

The Company transacts with customers primarily pursuant to standard purchase orders for delivery of products and does not allow customers to cancel or change purchase orders within limited notice periods. The Company recognizes product sales when control transfers to the customer, generally at the time of product shipment from its facilities, in an amount that reflects the consideration the Company expects to receive in exchange for those goods, net of estimated sales returns, distributor price adjustments (“DPA”), rebates, and other customer incentives.

The Company sells the majority of its products to distributors at a fixed list price. Distributors are authorized to resell its products to their customers at a range of individually negotiated price points based on a variety of factors, including customer, product, quantity, geography, and competitive differentiation. The majority of the distributors’ resales are priced at a discount from list price (the original purchase price). After the resale transaction is completed, the Company issues credit memos to the distributor for the price adjustments.

Sales to most distributors are made under programs common in the semiconductor industry whereby distributors receive certain price adjustments, or DPA, to meet individual competitive opportunities. These programs may include credits granted to distributors or price protection credits when the Company’s standard published prices are lowered from the price the distributor paid for product still in its inventory.

In determining the transaction price, DPAs are considered variable consideration that reduce the amount of revenue recognized. The Company’s policy is to estimate such price adjustments based on the Company’s historical prices and contractual terms using the expected value method. To date, actual DPAs have been materially consistent with the provisions the Company has made, based on its historical estimates. However, because of the inherent nature of estimates, there is always a risk that there could be significant differences between actual amounts and the Company’s estimates. The Company also considers the constraint on estimates of variable consideration when estimating the total transaction price.

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The Company's customer programs involve volume-based rebates, which are designed to serve as sales incentives to resellers of the Company's products in various target markets. The Company accounts for rebates as a reduction to revenue and accrues for potential rebates based on the amount the Company expects to be claimed by customers.

Revenue is recognized net of taxes collected, which are subsequently remitted to governmental authorities. Shipping and handling fees are included in cost of revenue and are recognized as activities to fulfill the promise to transfer the good.

Consideration payable includes cash amounts that the Company pays, or expects to pay, to a customer, and is included in accrued expenses and other current liabilities. Consideration payable also includes credits or other items. The Company accounts for consideration payable as a reduction of the transaction price, and therefore, of revenue, unless the payment to the customer is in exchange for a distinct good or service that the customer transfers to the Company.

During 2022, the Company issued to a customer a warrant to purchase shares of the Company's common stock. The Company accounts for the warrant as consideration payable to a customer as the Company did not receive a distinct good or service in exchange for the warrant. The shares underlying the warrant vest upon the achievement of specified tranches of global payments by the customer and its affiliates. As it becomes probable that the performance-based vesting conditions underlying the warrant will be achieved and the related revenue is recognized, the Company recognizes the related grant date fair value of the warrant as a reduction of revenue for each sales transaction in proportion to total expected cumulative sales volume resulting in achievement of the vesting conditions. See Note 9 Common Stock and Common Stock Warrants.

The Company applies the practical expedient to not disclose the value of unsatisfied performance obligations for contracts with an original expected length of one year. The Company applies the practical expedient to expense sales commissions when incurred because the amortization period would have been one year or less.

### ***Product Warranties***

The Company's products are generally subject to a product warranty, which provides for the estimated future costs of replacement upon shipment of the products. The products carry a standard one-year warranty. The warranty accrual is estimated primarily based on historical claims compared to historical revenue and assumes that the Company will have to replace products subject to a claim. Warranty expenses were not material for the year ended December 31, 2022. Accrued warranty was not material as of December 31, 2022.

The Company does not allow its distributors to return overstocked, obsolete, and discontinued products.

### ***Engineering Services***

Certain revenue contracts may include performance obligations related to engineering services. The Company recognizes revenue allocated to these performance obligations as certain milestones are completed and upon acceptance by the customer of contract deliverables.

### **Cost of Revenue**

Cost of revenue, including both cost of product sales revenue and cost of engineering services revenue, includes the purchase price of materials, such as wafers processed by third-party foundries, packaging for finished goods, assembly, shipping, amortization of capitalized production masks, logistics and quality assurance, write-downs for excess and obsolete inventory, and personnel costs including salaries, stock-based compensation expense, employee bonus and benefits, and allocation of general corporate expenses including allocated facilities expenses.

### **Research and Development Expenses**

Research and development expenses consist of costs incurred in performing research and development activities and include salaries, share-based compensation expense, employee bonus and benefits, pre-production engineering mask costs, overhead costs and prototype wafer, packaging and test costs, and allocated facilities expenses. Research and development costs are expensed as incurred.

### **Sales and Marketing Expenses**

Sales and marketing expenses consist of personnel costs including salaries, share-based compensation expense, employee bonus and benefits, samples to potential customers, travel and entertainment costs, and allocation of general corporate expenses including allocated facilities expenses. Advertising costs are expensed as incurred and were not material for the year ended December 31, 2022.

### **General and Administrative Expenses**

General and administrative expenses consist primarily of personnel costs including salaries, share-based compensation, and employee benefits related to corporate, finance, legal and human resource functions, contractor and professional services fees, audit and compliance expenses, insurance costs, and general corporate expenses including allocated facilities expenses.

### **Stock-Based Compensation**

#### ***Stock Options***

The Company measures and recognizes stock-based compensation expense for stock options based on the estimated fair value of the award on the date of grant, which is determined using the Black-Scholes-Merton option-pricing model for stock options that vest based on service and performance conditions.

The Black-Scholes-Merton option-pricing model utilizes the following assumptions:

*Fair value of common stock:* The fair value of the common stock underlying the Company's stock-based awards is determined by the Company's board of directors, with input from management and the assistance of a third-party valuation firm. Because there is no public market for the Company's stock, the independent third-party valuations have generally been performed annually in accordance with the guidance outlined in the AICPA Practice Aid, Valuation of Privately-Held Company Equity Securities Issued as Compensation (AICPA's Practice Aid). In conducting the valuations, the independent third-party valuation specialist considered all objective and subjective factors that it believed to be relevant for each valuation conducted in accordance with AICPA's Practice Aid, including the price paid by investors for the Company's common and preferred stock, actual and forecasted operating and financial performance, market conditions, performance of comparable publicly-traded companies and transactions of comparable companies, developments and milestones within the Company, the rights, preferences, and privileges of the Company's common and preferred stock, and the likelihood and timing of achieving a liquidity event.

In determining the fair value of the Company's common stock, the fair value of the Company's business was determined using various valuation methods, including combinations of the income approach (discounted cash flow method) and the market approach (public company market-multiple method) with input from the Company. The income approach involves applying an appropriate risk-adjusted discount rate to projected cash flows based on forecasted revenue and costs. The market approach estimates value based on a comparison of the Company to comparable public companies in a similar line of business. From the comparable companies, a representative market-value multiple was determined, which was applied to the Company's operating results to estimate the enterprise value of the Company.



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Once the enterprise value was determined under the market approach, the Company derived the equity value of the Company and used the option-pricing model to allocate that value across the various classes of securities to arrive at the fair value of the common stock.

*Expected term:* The Company calculates the expected term of its stock options based on the simplified method, as the Company does not have sufficient historical information to develop reasonable expectations about future exercise patterns and post-vesting employment termination behavior.

*Expected volatility:* Expected volatility is a measure of the amount by which the stock price is expected to fluctuate. Since the Company does not have sufficient trading history of its common stock, it estimates the expected volatility by taking the average historical volatility of a group of comparable publicly traded companies over a period equal to the expected term of the awards.

*Risk-free interest rate:* The risk-free interest rate used is based on the implied yield in effect at the time of grant of U.S. Treasury securities with maturities similar to the expected term of the stock options.

*Expected dividend yield:* The dividend yield is zero as the Company has not declared or paid any dividends to date and does not currently expect to do so in the future.

For awards with service conditions only, stock-based compensation expense is recognized on a straight-line basis over the requisite service period of the awards, which is generally the vesting period. The Company accounts for forfeitures for awards with service conditions as they occur. For awards with both service and performance conditions, stock-based compensation expense is recognized using the accelerated-attribution method over the estimated vesting period of the awards if and when the Company concludes that it is probable that the performance condition will be achieved. The Company reassesses the probability of vesting at each reporting period for awards with performance conditions and adjusts compensation expense based on its probability assessment.

### ***Restricted Stock Units***

The Company measures and recognizes stock-based compensation expense for restricted stock units (“RSUs”) based on the estimated fair value of the underlying common stock on the date of grant. The Company’s RSUs vest upon the satisfaction of both service and performance conditions. The Company recognizes compensation expense for awards with both service and performance conditions on a straight-line basis over the requisite service period for each separately vesting portion of the award and, for awards with performance conditions, when it concludes it is probable that the performance condition will be achieved. The Company reassesses the probability of vesting at each balance sheet date and adjusts compensation expense based on the probability assessment.

### **Cash and Cash Equivalents**

As of December 31, 2022, cash and cash equivalents consist of cash held in sweep accounts, checking accounts, money market funds, and commercial paper.

### **Marketable Securities**

Marketable securities consist primarily of commercial paper, U.S. treasury and agency securities, corporate debt securities, foreign government bonds, and asset-backed securities. The Company’s investments are all highly liquid and available for use in current operations, including those with maturity dates beyond one year, and therefore the Company classifies these securities within current assets on its consolidated balance sheet. The Company considers its highly liquid investments with original maturities of three months or less at the date of purchase to be cash equivalents. Investments not considered cash equivalents are classified as marketable securities on the Company’s consolidated balance sheet.

The Company classifies and accounts for its marketable securities as available-for-sale, and it carries such securities at fair value with unrealized gains and losses excluded from earnings and reported net of tax as a

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separate component of stockholders' deficit in accumulated other comprehensive loss until the security is sold or matures. During the year ended December 31, 2022, in connection with its available-for-sale securities, the Company recorded pretax unrealized losses in other comprehensive loss of \$0.2 million with no associated tax benefit.

If an available-for-sale debt security's fair value declines below its amortized cost basis, the Company evaluates whether it intends to sell the security, or whether it more-likely-than-not will be required to sell the security before the recovery of its amortized cost basis. If either condition is met, the Company records an impairment loss on the security. If neither condition is met, the Company evaluates whether the decline is the result of credit-related factors, in which case the Company records the credit-related portion of the impairment loss. There were no impairment charges for the year ended December 31, 2022.

### **Accounts Receivable, Net**

Accounts receivable are recorded at the invoiced amount, net of DPAs, and allowance for credit losses. The Company performs periodic credit evaluations of its customers' financial condition and does not require collateral from them. Amounts considered uncollectible are charged against the allowance account in the year they are deemed uncollectible. As of December 31, 2022 and for the year then ended, the allowance for credit losses and related activity was not material to the consolidated financial statements.

The Company regularly monitors collections and payments from customers and maintains an allowance for credit losses for estimated losses resulting from the inability of customers to make required payments. Prior to the Company's adoption of Topic 326 during the year ended December 31, 2022, management estimated its allowance for doubtful accounts by considering factors such as historical credit loss experience and current conditions, such as the length of time accounts receivable are past due, customer payment histories, and any specific customer collection issues identified. Subsequent to the Company's adoption of Topic 326, management has expanded its approach and estimates its allowance for credit losses by considering the above factors, current market conditions which may affect customer financial condition, and reasonable and supportable forecasts of future credit losses. The Company writes off accounts receivable that have become uncollectible.

### **Inventory**

The Company's inventory, which includes raw materials, work-in-progress, and finished goods, is stated at the lower of cost or net realizable value. Inventory cost, which includes materials purchase cost, inbound freight and capitalized overhead, is computed using standard cost, which approximates actual cost, on a first-in, first-out basis. Net realizable value is the estimated selling price of the Company's products in the ordinary course of business, less reasonably predictable costs of completion, disposal, and transportation. The carrying value of inventory is reduced for estimated excess and obsolete inventory. Excess and obsolete inventory reductions are determined based on assumptions about product expiration, future demand, and market conditions, and are included in cost of product sales revenue in the consolidated statements of operations and comprehensive loss.

### **Prepaid Expenses and Other Current Assets**

Prepaid expenses and other current assets consist primarily of prepayments for technology subscription services, and insurance premiums.

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### **Property and Equipment, Net**

Property and equipment is stated at cost, net of accumulated depreciation. Depreciation expense is recorded on a straight-line basis over the estimated useful lives of the assets. The estimated useful lives of the Company's property and equipment are as follows:

| <u>Asset Category</u>    | <u>Estimated Useful Life</u>                        |
|--------------------------|---|
| Office furniture         | 5 years   |
| Laboratory equipment     | 3 years   |
| Servers and workstations | 3 years   |
| Leasehold improvements   | Lesser of asset useful life or remaining lease term |

### **Impairment of Long-Lived Assets**

The Company assesses the impairment of long-lived assets, which consist primarily of property and equipment, whenever events or changes in circumstances indicate that such assets might be impaired and the carrying value may not be recoverable. Events or changes in circumstances that may indicate that an asset is impaired include significant decreases in the market value of an asset, significant underperformance relative to expected historical or projected future results of operations, a change in the extent or manner in which an asset is utilized, significant declines in the estimated fair value of the overall Company for a sustained period, shifts in technology, loss of key management or personnel, changes in the Company's operating model, or strategy and competitive forces.

If events or changes in circumstances indicate that the carrying amount of an asset may not be recoverable and the expected undiscounted future cash flows attributable to the asset are less than the carrying amount of the asset, an impairment loss equal to the excess of the asset's carrying value over its fair value is recorded. Fair value is generally determined based on the present value of estimated expected future cash flows using a discount rate commensurate with the risk involved, quoted market prices or appraised values, depending on the nature of the asset. There were no impairment charges of long-lived assets for the year ended December 31, 2022.

### **Leases**

The Company determines at contract inception whether an arrangement is a lease based on its ability to control a physically distinct asset and determines the classification of the lease as either operating or finance. For all leases, the Company combines all components of the lease including related non-lease components as a single component. The Company's operating lease right-of-use ("ROU") assets represent the Company's right to use an underlying asset for the lease term and lease liabilities represent the Company's obligation to make lease payments related to the lease. The Company has also elected to utilize the short-term lease recognition exemption and, for those leases that qualify, the Company has not recognized operating lease ROU assets or operating lease liabilities. The Company does not have any finance leases as of December 31, 2022. Operating lease ROU assets and liabilities are recognized at the commencement date based on the present value of lease payments over the lease term. Operating lease ROU assets also include any initial direct costs and prepayments less lease incentives. As the Company's leases do not provide an implicit rate, the Company uses its collateralized incremental borrowing rate based on the information available at the lease commencement date, including lease term, in determining the present value of lease payments.

Lease terms may include options to extend or terminate the lease when the Company is reasonably certain that it will exercise the option. Lease expense is recognized on a straight-line basis over the lease term in the consolidated statement of operations and comprehensive loss. Certain lease agreements may contain variable costs such as utilities and common area maintenance. Variable lease costs are expensed when the cost is incurred.

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### **Deferred Offering Costs**

Deferred offering costs, consisting of legal, accounting, and other fees and costs relating to the Company's planned initial public offering are capitalized within other long-term assets on the consolidated balance sheet. The deferred offering costs will be offset against the proceeds received by the Company upon the closing of the planned initial public offering. In the event the planned initial public offering is terminated, all of the deferred offering costs will be expensed within operating loss. As of December 31, 2022, the deferred offering costs were not material.

### **Income Taxes**

The Company is subject to income taxes in the United States and certain foreign jurisdictions. Significant judgment is required in determining the Company's provision for income taxes and income tax assets and liabilities, including evaluating uncertainties in the application of accounting principles and complex tax laws.

The Company uses the asset and liability method to account for income taxes. Current income tax expense or benefit represents the amount of income taxes expected to be payable or refundable for the current year. Under this method, deferred income tax assets and liabilities are determined based on differences between the financial statement reporting and tax bases of assets and liabilities and net operating loss and credit carryforwards. Deferred tax assets and liabilities are measured using enacted tax rates applied to taxable income in the years in which those temporary differences are expected to be recovered or settled. A valuation allowance is established when necessary to reduce deferred tax assets to the amount expected to be realized.

The Company accounts for uncertain tax positions in accordance with ASC 740-10, *Accounting for Uncertainty in Income Taxes*. The Company recognizes the tax effects of an uncertain tax position only if such position is more-likely-than-not to be sustained based solely on its technical merits as of the reporting date and only in an amount more-likely-than-not to be sustained upon review by the tax authorities.

### **Commitments and Contingencies**

Liabilities for loss contingencies arising from claims, assessments, litigation, fines, and penalties and other sources are recorded when it is probable that a liability has been incurred and the amount of loss can be reasonably estimated. The Company does not accrue for contingent losses that, in its judgment, are considered to be reasonably possible. However, if the Company determines that a contingent loss is reasonably possible and the loss or range of loss can be estimated, the Company discloses the possible loss in the consolidated financial statements. Legal costs incurred in connection with loss contingencies are expensed as incurred.

### **Redeemable Convertible Preferred Stock**

The Company records all shares of redeemable convertible preferred shares at their respective fair values less issuance costs on the dates of issuance. The redeemable convertible preferred shares were recorded outside of stockholders' deficit because, in the event of certain liquidation events, considered not solely within the Company's control, such as a change in control event and sale of all or substantially all of the Company's assets, the redeemable convertible preferred shares would become redeemable at the option of the holders.

### **Foreign Currency Transactions**

The functional currency of the Company's foreign subsidiaries in Taiwan and Canada is the U.S. dollar. All foreign currency transactions are initially measured and recorded in U.S. dollars using the exchange rate on the date of the transaction. Foreign currency denominated monetary assets and liabilities are remeasured and recorded at the end of each reporting period using the exchange rate at that date. Foreign exchange gains and losses were not material for the year ended December 31, 2022.

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### **Comprehensive Loss**

Certain revenue, expenses, gains, and losses are recognized in comprehensive loss but excluded from net loss. Comprehensive loss includes unrealized gains and losses on the Company's marketable securities.

### **Fair Value Measurements**

Fair value is defined as the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date. To increase the comparability of fair value measures, the following hierarchy prioritizes the inputs to valuation methodologies used to measure fair value:

*Level 1.* Quoted prices for identical assets and liabilities in active markets.

*Level 2.* Assets and liabilities valued based on observable market data for similar instruments, such as quoted prices for similar assets or liabilities or other inputs that are observable or can be corroborated by observable market data.

*Level 3.* Unobservable inputs reflecting the Company's assumptions, consistent with reasonably available assumptions made by other market participants. These valuations require significant judgment.

The fair value hierarchy also requires an entity to maximize the use of observable inputs and minimizes the use of unobservable inputs when measuring fair value.

The carrying amount of the Company's financial instruments, including cash equivalents, accounts receivable, and accounts payable, approximates their respective fair values because of their short maturities.

### **Concentrations of Credit Risk and Major Customers**

For the year ended December 31, 2022, two customers accounted for 81.7% (which is a distributor) and 14.0% of revenue, respectively. No other customers accounted for more than 10% of revenue during the year ended December 31, 2022.

As of December 31, 2022, two customers accounted for 44.1% (which is a distributor) and 43.8% of total accounts receivable, net, respectively. No other customers accounted for more than 10% of accounts receivable, net as of December 31, 2022.

### **Concentration of Supply Risk**

The Company relies on a single manufacturing partner for integrated circuits. The Company also relies on a small, limited number of other manufacturing partners for its modules, boards, and integrated circuit substrates. While alternative providers could be identified, the Company is subject to supply and pricing risks.

### **Accounting Pronouncements Recently Adopted**

In June 2016, the Financial Accounting Standards Board ("FASB") issued ASC 2016-13, *Measurement of Credit Losses on Financial Instruments* that replaced the existing model for measuring the allowance for credit losses for financial assets measured at amortized cost (including accounts receivable) to a model that is based on the expected losses rather than incurred losses ("Topic 326"). Under the new credit loss model, lifetime expected credit losses on such financial assets are measured and recognized at each reporting date based on historical, current, and forecasted information. The Company adopted Topic 326 for the year ended December 31, 2022 using a modified-retrospective approach. The impact upon adoption was not material to the Company's consolidated financial statements. The future impact of such accounting guidance will largely depend on the future composition and credit quality of the Company's investment portfolio and accounts receivable, as well as future economic conditions.

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### 2. Segment and Geographical Information

The Company's chief operating decision maker is its Chief Executive Officer ("CEO"), who reviews financial information presented on a consolidated basis for purposes of making operating decisions, assessing financial performance, and allocating resources. The Company manages its operations and allocates resources as a single operating segment.

Revenue by location is determined by the billing address of the customers, who include distributors who purchase the Company's products and resell them. The following table sets forth revenue by geographic area (in thousands):

|               | Year Ended December 31,<br>2022 |
|---------------|---------------------------------|
| Taiwan        | \$ 61,776                       |
| Netherlands   | 11,479                          |
| United States | 4,779                           |
| Other         | 1,838                           |
| Total         | <u>\$ 79,872</u>                |

Property and equipment by geographic location is based on the location of the legal entity that owns the asset. As of December 31, 2022, substantially all of the Company's property and equipment was located in the United States.

### 3. Consolidated Balance Sheet Components

#### Inventory

Inventory consists of the following (in thousands):

|                  | As of December 31,<br>2022 |
|------------------|----------------------------|
| Work-in-progress | \$ 18,957                  |
| Finished goods   | 7,197                      |
| Raw materials    | 2,720                      |
| Total inventory  | <u>\$ 28,874</u>           |

#### Prepaid Expenses and Other Current Assets

Prepaid expenses and other current assets consists of the following (in thousands):

|   | As of December 31,<br>2022 |
|---|----------------------------|
| Prepaid expenses                                | \$ 2,757                   |
| Other current assets                            | 509                        |
| Total prepaid expenses and other current assets | <u>\$ 3,266</u>            |

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### Property and Equipment, Net

Property and equipment, net consists of the following (in thousands):

|                                   | As of December 31,<br>2022 |
|-----------------------------------|----------------------------|
| Laboratory equipment              | \$ 3,810                   |
| Office furniture                  | 243                        |
| Leasehold improvements            | 220                        |
| Servers and workstations          | 149                        |
|                                   | <u>4,422</u>               |
| Less: accumulated depreciation    | (898)                      |
| Total property and equipment, net | <u>\$ 3,524</u>            |

Depreciation expense of \$0.8 million was recognized during the year ended December 31, 2022.

### Accrued Expenses and Other Current Liabilities

Accrued expenses and other current liabilities consists of the following (in thousands):

|  | As of December 31,<br>2022 |
|--|----------------------------|
| Accrued expenses                                     | \$ 11,863                  |
| Accrued rebates                                      | 2,514                      |
| Early exercise liability                             | 1,685                      |
| Operating lease liabilities, current                 | 1,597                      |
| Total accrued expenses and other current liabilities | <u>\$ 17,659</u>           |

### 4. Marketable Securities

The amortized cost, gross unrealized gains and losses, and fair value of available-for-sale debt securities by major security type are as follows (in thousands):

|                                     | As of December 31, 2022 |                              |                               |                  |
|-------------------------------------|-------------------------|------------------------------|-------------------------------|------------------|
|                                     | Amortized<br>Cost       | Gross<br>Unrealized<br>Gains | Gross<br>Unrealized<br>Losses | Fair<br>Value    |
| Cash equivalents                    |                         |                              |                               |                  |
| Money market funds                  | \$ 11,743               | \$ —                         | \$ —                          | \$ 11,743        |
| Commercial paper                    | 1,998                   | —                            | —                             | 1,998            |
| Total cash equivalents              | <u>\$ 13,741</u>        | <u>\$ —</u>                  | <u>\$ —</u>                   | <u>\$ 13,741</u> |
| Marketable securities               |                         |                              |                               |                  |
| U.S. treasury and agency securities | \$ 17,932               | \$ —                         | \$ (143)                      | \$ 17,789        |
| Commercial paper                    | 28,718                  | —                            | —                             | 28,718           |
| Corporate debt securities           | 24,502                  | 46                           | (43)                          | 24,505           |
| Foreign government bonds            | 5,262                   | 3                            | (31)                          | 5,234            |
| Asset-backed securities             | 10,871                  | 3                            | (64)                          | 10,810           |
| Total marketable securities         | <u>\$ 87,285</u>        | <u>\$ 52</u>                 | <u>\$ (281)</u>               | <u>\$ 87,056</u> |

As of December 31, 2022, the Company's marketable securities that were in a continuous loss position for 12 months or more, as well as the unrealized losses on those marketable securities, were not material.

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The contractual maturities of marketable securities classified as available-for-sale, regardless of their classification on the Company's consolidated balance sheet, are as follows as of December 31, 2022 (in thousands):

|                                      | Amortized Cost    | Fair Value        |
|--------------------------------------|-------------------|-------------------|
| Due within one year                  | \$ 62,146         | \$ 62,067         |
| Due after one year through two years | 38,880            | 38,730            |
| Total marketable securities          | <u>\$ 101,026</u> | <u>\$ 100,797</u> |

Actual maturities may differ from contractual maturities because borrowers may have the right to call or prepay obligations with or without call or prepayment penalties.

The Company did not recognize an allowance for credit losses against interest receivable as of December 31, 2022 because such potential losses were not material.

There were no material gross unrealized gains or losses from available-for-sale securities and no material realized gains or losses from available-for-sale securities that were reclassified out of accumulated other comprehensive loss for the year ended December 31, 2022.

There were no material credit or non-credit related impairments as of December 31, 2022.

### Fair Value of Assets and Liabilities

The following table presents information about the Company's financial assets measured at fair value on a recurring basis based on the fair value hierarchy as follows (in thousands):

|                                     | As of December 31, 2022 |                  |             | Total Fair Value |
|-------------------------------------|-------------------------|------------------|-------------|------------------|
|                                     | Level 1                 | Level 2          | Level 3     |                  |
| Cash equivalents                    |                         |                  |             |                  |
| Money market funds                  | \$ 11,743               | \$ —             | \$ —        | \$ 11,743        |
| Commercial paper                    | —                       | 1,998            | —           | 1,998            |
| Total cash equivalents              | <u>\$ 11,743</u>        | <u>\$ 1,998</u>  | <u>\$ —</u> | <u>\$ 13,741</u> |
| Marketable securities               |                         |                  |             |                  |
| U.S. treasury and agency securities | \$ —                    | \$ 17,789        | \$ —        | \$ 17,789        |
| Commercial paper                    | —                       | 28,718           | —           | 28,718           |
| Corporate debt securities           | —                       | 24,505           | —           | 24,505           |
| Foreign government bonds            | —                       | 5,234            | —           | 5,234            |
| Asset-backed securities             | —                       | 10,810           | —           | 10,810           |
| Total marketable securities         | <u>\$ —</u>             | <u>\$ 87,056</u> | <u>\$ —</u> | <u>\$ 87,056</u> |

### 5. Leases

The Company has operating leases for corporate offices in the U.S., Canada, and Taiwan. The Company's lease payments consist primarily of fixed rental payments for the right to use the underlying leased assets over the lease terms for all leases.



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Supplemental balance sheet information related to the Company's operating leases is as follows (in thousands):

|   | <u>As of December 31,</u><br><u>2022</u> |
|---|--|
| <b>Assets</b>                           |  |
| Operating lease ROU assets, net         | \$ 1,765                                 |
| <b>Liabilities</b>                      |  |
| Operating lease liabilities, current    | \$ 1,597                                 |
| Operating lease liabilities, noncurrent | 361                                      |
| Total lease liabilities                 | <u>\$ 1,958</u>                          |

Operating lease ROU assets, net are included in other assets; operating lease liabilities, current are included in accrued expenses and other current liabilities; and operating lease liabilities, non-current are included in other liabilities, on the consolidated balance sheet.

The components of lease expense, included in operating expenses, were as follows (in thousands):

|                          | <u>Year Ended December 31,</u><br><u>2022</u> |
|--------------------------|---|
| Operating lease expense  | \$ 1,448                                      |
| Short-term lease expense | 602   |
| Total lease expense      | <u>\$ 2,050</u>                               |

The weighted-average remaining lease term and discount rates were as follows (in thousands, except years):

|  | <u>As of December 31,</u><br><u>2022</u> |
|--|--|
| Weighted average remaining lease term (in years) | 1.4                                      |
| Weighted average discount rate                   | 6.0%                                     |

Other information related to operating leases were as follows (in thousands):

|   | <u>Year Ended December 31,</u><br><u>2022</u> |
|---|---|
| <b>Supplemental cash flows information:</b>           |   |
| Operating cash flows from operating leases            | \$ 1,320                                      |
| ROU assets obtained in exchange for lease obligations | \$ 2,018                                      |

The future minimum operating lease payments for each of the next five years and thereafter are as follows as of December 31, 2022 (in thousands):

| <u>Years ending December 31</u>     | <u>Operating Leases</u> |
|-------------------------------------|-------------------------|
| 2023                                | \$ 1,654                |
| 2024                                | 260                     |
| 2025                                | 133                     |
| 2026                                | —                       |
| 2027                                | —                       |
| Thereafter                          | —                       |
| Total future minimum lease payments | 2,047                   |
| Less: Imputed interest              | (89)                    |
| Total operating lease liabilities   | <u>\$ 1,958</u>         |

## 6. Debt

### Term Loan

In April 2021, the Company entered into a loan and security agreement with Silicon Valley Bank (“Loan and Security Agreement”) for advances totaling up to \$4.0 million, available during the draw period commencing on April 30, 2021 and continuing through the earlier of (a) January 31, 2022 and (b) the occurrence of an event of default. The advanced principal shall accrue interest based on the greater of 1.0% above the Prime Rate or 4.25% per annum. The term loan maturity date is January 1, 2025.

The term loan advances are secured by a lien on the Company’s assets. The Company is subject to certain financial and reporting covenants including a requirement for the Company to maintain a certain minimum liquidity ratio. The Company did not draw on the term loan through the available draw period which expired on January 31, 2022.

## 7. Commitments and Contingencies

### Purchase Commitments

The Company depends upon third-party subcontractors to manufacture wafers and other inventory parts. The Company’s subcontractor relationships typically allow for the cancellation of outstanding purchase orders but require payment of all expenses incurred through the date of cancellation. As of December 31, 2022, the Company did not have any material firm purchase commitments.

The Company’s purchase commitments include payments for software licenses when there is a fixed, non-cancellable payment schedule or when minimum payments are due according to a delivery schedule. As of December 31, 2022, the Company is committed to make the following minimum payments under its purchase commitments for software licenses (in thousands):

| <u>Years ending December 31</u> | <u>Purchase Commitments</u> |
|---------------------------------|-----------------------------|
| 2023                            | \$ 4,100                    |
| 2024                            | 3,813                       |
| 2025                            | 688                         |
| Total purchase commitments      | <u>\$ 8,601</u>             |

In December 2022, the Company entered into a cloud service agreement with a vendor for three years. The arrangement provides cloud hosting services for the Company’s research and development on designing the Company’s new product offerings. The minimum purchase commitment is \$2.0 million annually from 2023 through 2025.

### Legal Proceedings

From time to time, the Company may become subject to legal proceedings, claims, and litigation arising in the ordinary course of business. The Company is not currently a party to any material legal proceedings or claims, nor is the Company aware of any other pending or threatened legal proceedings or claims that could have a material adverse effect on the Company’s business, operating results, cash flows, or financial condition should such legal proceedings or claims be resolved unfavorably.

### Indemnifications

In the ordinary course of business, the Company often includes standard indemnification provisions in its arrangements with its members, partners, suppliers, and vendors. Pursuant to these provisions, the Company may

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be obligated to indemnify such parties for losses or claims suffered or incurred in connection with its service, breach of representations or covenants, intellectual property infringement or other claims made against such parties. These provisions may limit the time within which an indemnification claim can be made. It is not possible to determine the maximum potential amount under these indemnification obligations due to the limited history of prior indemnification claims and the unique facts and circumstances involved in each particular agreement. The Company has not in the past incurred significant expense defending its licensees against third-party claims, nor has it incurred significant expense under its standard service warranties or arrangements with its members, partners, suppliers, and vendors. Accordingly, the Company had no liabilities recorded for these provisions as of December 31, 2022.

### 8. Redeemable Convertible Preferred Stock

During the year ended December 31, 2022, the Company raised \$149.9 million, net of issuance costs of \$0.1 million, through the issuance of 14.8 million shares of Series D redeemable convertible preferred stock priced at \$10.17 per share. In connection with this transaction, certain existing employees sold 1.8 million shares of common stock to new and existing investors, which was exchanged for shares of Series D redeemable convertible preferred stock, on a one-to-one basis. All cash received related to the exchange was transferred to all selling shareholders. The Company recorded the exchange of common stock for preferred stock in additional paid-in capital on the consolidated balance sheet.

Redeemable convertible preferred stock has a par value of \$0.0001 per share and comprises Series A preferred stock, Series A-1 preferred stock, Series B preferred stock, Series B-1 preferred stock, Series C preferred stock, and Series D preferred stock (collectively, the “Preferred Stock”).

Information relating to the Preferred Stock is as follows (in thousands, except per share amounts):

| Issue Title | As of December 31, 2022        |                   |                               |                  |                        |
|-------------|--------------------------------|-------------------|-------------------------------|------------------|------------------------|
|             | Original Issue Price per Share | Shares Authorized | Shares Issued and Outstanding | Carrying Amount  | Liquidation Preference |
| Series A    | \$ 0.10                        | 83,333            | 83,314                        | \$ 8,445         | \$ 16,996              |
| Series A-1  | 0.10                           | 19                | 19                            | 0                | 4                      |
| Series B    | 0.39                           | 66,253            | 65,950                        | 25,861           | 25,879                 |
| Series B-1  | 0.39                           | 302               | 302                           | 0                | 118                    |
| Series C    | 3.36                           | 15,619            | 15,619                        | 52,382           | 52,510                 |
| Series D    | 10.17                          | 16,736            | 16,577                        | 168,439          | 170,192                |
|             |                                | <u>182,262</u>    | <u>181,781</u>                | <u>\$255,127</u> | <u>\$ 265,699</u>      |

### Dividend Rights

The holders of the outstanding shares of Preferred Stock are entitled to receive, when and if declared by the Company’s board of directors, a noncumulative dividend at an annual rate of 2 times the Series A preferred stock Original Issue Price (“OIP”) and Series A-1 preferred stock OIP, 1 times the Series B preferred stock OIP and Series B-1 preferred stock OIP, and 1 times the Series C preferred stock OIP and Series D preferred stock OIP for each share of such series of Preferred Stock. Such dividends are payable in preference to any dividends for common stock declared by the Company’s board of directors.

### Liquidation Rights

In the event of any Liquidation Event, as described below, whether voluntary or involuntary, the holders of Preferred Stock, shall be entitled to receive, on a pari passu basis, prior and in preference to any distribution to holders of common stock, an amount equal to the greater of (i) 2 times the Series A preferred stock OIP, 2 times

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the Series A-1 preferred stock OIP, 1 times the Series B preferred stock OIP, 1 times the Series B-1 preferred stock OIP, 1 times the Series C preferred stock OIP, and 1 times the Series D preferred stock OIP, respectively, together with any declared but unpaid dividends or (ii) such amount per share as would have been payable had all shares of each respective series of Preferred Stock been converted into common stock immediately prior to such liquidation event (“Liquidation Preference”). If the assets are insufficient to make payment in full to all holders of Preferred Stock, the assets or consideration of the Company legally available for distribution shall be distributed ratably among the holders of the Preferred Stock in proportion to their Liquidation Preference. After the payment of the Liquidation Preference, all remaining assets available for distribution, if any, shall be distributed ratably among the holders of common stock.

### **Liquidation Event**

A liquidation event (“Liquidation Event”) shall mean the following:

Sale, lease or exclusive license or other disposition of all or substantially all of the assets of the Company;

The consummation of a merger or consolidation of the Company with or into another entity (except whereby the holders of more than 50% of the capital stock of the Company continue to own more than 50% of the capital stock);

The transfer of a majority of the Company’s capital stock to a person or group of affiliated persons (other than an underwriter of the Company’s securities); or

Liquidation, dissolution or winding up of the Company, whether voluntary or involuntary, unless to change the state of the Company’s incorporation or to create a holding company that will be majority owned by the same majority holding the Company’s current capital stock.

The occurrence of a Liquidation Event may be waived by consent or vote of the holders of at least 60% of the outstanding shares of Preferred Stock, voting together as a single class on an as-converted basis (the “Preferred Majority”), including a majority of holders of Series C preferred stock and holders of Series D preferred stock (the “Series C and D Majority”).

### **Redemption**

The holders of the redeemable convertible preferred stock have no voluntary rights to redeem shares. The redeemable convertible preferred stock has deemed liquidation provisions which require the shares to be redeemed upon any liquidation, dissolution, or winding up of the Company, whether voluntary or involuntary, or a Liquidation Event. Although the Preferred Stock is not mandatorily or currently redeemable, a deemed Liquidation Event could constitute a redemption event outside the Company’s control. Therefore, all shares of Preferred Stock have been presented outside of permanent equity. The Company recorded all shares of Preferred Stock at their respective issuance price less issuance costs on the dates of issuance. Given the Company’s performance and financial condition, the Company currently does not believe a Liquidation Event is probable. The carrying values of the Company’s Preferred Stock have not been accreted to their redemption values as the Liquidation Event is not considered probable of occurring. Subsequent adjustments of the carrying values to redemption values will be made only if and when it becomes probable the preferred shares will become redeemable.

### **Voting Rights**

The holders of each share of Series A preferred stock, Series A-1 preferred stock, Series B preferred stock, Series B-1 preferred stock, Series C preferred stock, and Series D preferred stock have the right to one vote for each share of common stock into which such Preferred Stock could then be converted. Such holder has voting rights and powers equal to those of the holder of common stock.

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As long as at least fifty percent of the shares of Series A preferred stock originally issued remain outstanding, the holders of Series A preferred stock, exclusively and as a separate class, shall be entitled to elect up to 2 directors (the “Series A Directors”). So long as at least 29.3 million shares (adjusted for any stock splits, stock dividends, combinations, subdivisions, recapitalizations or the like) of Series B preferred stock remain outstanding, the holders of the Series B preferred stock, exclusively and as a separate class, shall be entitled to elect 1 director (the “Series B Director”). The holders of record of the shares of common stock, exclusively and as a separate class, shall be entitled to elect 2 directors (the “Common Directors”).

### **Conversion Rights**

Each share of Preferred Stock is convertible, at the option of the holder, at any time, into the number of fully paid and nonassessable shares of common stock determined by dividing the applicable OIP per share by the applicable conversion price per share in effect for the class of Preferred Stock at the time of conversion. The initial conversion price per share of the Preferred Stock is the applicable OIP. The conversion price is subject to adjustment.

Each share of Preferred Stock shall automatically be converted into shares of common stock at the conversion price at the time in effect for such share immediately upon the earlier of (i) the closing of this corporation’s sale of its common stock to the public at a price of at least \$5.08 per share in a firm commitment underwritten public offering pursuant to a registration statement under the Securities Act of 1933, provided that the aggregate gross proceeds to this corporation are at least \$40.0 million (a “Qualified Public Offering”) or (ii) the date, or the occurrence of an event, specified by vote or written consent or agreement of the holders of the Preferred Majority; provided, however, that the affirmative vote or written consent of the Series C Majority and Series D Majority shall be required to convert the Series C preferred stock and Series D preferred stock in connection with any transaction resulting in the holders of the Series C preferred stock and Series D preferred stock receiving proceeds per share which are less than the Series C OIP and Series D OIP, respectively.

### **9. Common Stock and Common Stock Warrants**

As of December 31, 2022, the Company had authorized 325.3 million shares of common stock with a \$0.0001 per share par value. Common stockholders are entitled to one vote for each share held.

As of December 31, 2022, the Company had 81.3 million shares of common stock issued and outstanding.

The total shares of the Company’s common stock reserved for issuance are as follows (in thousands):

|   | <b>As of December 31,<br/>2022</b> |
|---|------------------------------------|
| Redeemable convertible preferred stock outstanding      | 181,781                            |
| Common stock warrants outstanding                       | 3,221                              |
| Stock options outstanding under the 2018 Plan           | 24,674                             |
| Restricted stock outstanding                            | 10,216                             |
| Shares reserved for future issuance under the 2018 Plan | 6,281                              |
| Total shares of common stock reserved for issuance      | <u>226,173</u>                     |

### **Common Stock Warrants**

In April 2021, in connection with the Loan and Security Agreement, the Company issued a fully-vested warrant to purchase up to 252,370 shares of the Company’s common stock at an exercise price of \$0.15 per share. The warrant is exercisable starting on the grant date for a period of 10 years. The grant date fair value of the warrant was not material as of December 31, 2022. The warrant was recorded as a debt issuance cost and was amortized to interest expense from the issuance date to the expiration of the draw period of the Term Loan in January 2022.

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In October 2022, the Company issued a warrant to a customer (“Holder”) to purchase an aggregate of up to 2,968,460 shares of common stock at an exercise price of \$10.17 per share (the “Warrant”). The exercise period of the Warrant is through the seventh anniversary of the issue date. Upon issuance of the Warrant, 29,688 shares issuable underlying the Warrant vested and became exercisable immediately and the remainder of the shares underlying the Warrant will vest and become exercisable over the contract term based on the achievement of performance conditions, comprised of specified tranches of global payments by the Holder and its affiliates to the Company. Subsequent to the issue date, during the year ended December 31, 2022, an additional 114,067 shares issuable underlying the Warrant vested and became exercisable. No other shares issuable underlying the Warrant were vested or exercisable as of December 31, 2022.

The grant date fair value of the Warrant was determined to be \$2.39 per share using the Black-Scholes-Merton option pricing model, for a maximum total Warrant fair value of \$7.1 million. The per share grant date fair value of the Warrant was estimated using the following assumptions:

|                                      | <u>Year Ended December 31,</u><br><u>2022</u> |
|--------------------------------------|---|
| Expected dividend yield              | 0.0%  |
| Risk-free interest rate              | 4.2%  |
| Expected volatility                  | 55.0%   |
| Expected term (in years)             | 7.0   |
| Per share fair value of common stock | \$ 5.32                                       |

During the year ended December 31, 2022, the Company recognized \$0.3 million as a reduction of revenue in the consolidated statement of operations and comprehensive loss related to the Warrant. The remaining grant date fair value of the Warrant that is probable of vesting will be recognized as a reduction of revenue over the period the related sales occur, which could be up until October 14, 2029.

### 10. Stock-Based Compensation

The estimated grant date fair values of the employee stock options granted during the year ended December 31, 2022, were calculated using the Black-Scholes-Merton Option-pricing model, based on the following minimum and maximum assumptions:

|                          | <u>Year Ended December 31,</u><br><u>2022</u> |
|--------------------------|---|
| Expected dividend yield  | 0.0%  |
| Risk-free interest rate  | 1.7% - 2.5%                                   |
| Expected volatility      | 47.5% - 47.8%                                 |
| Expected term (in years) | 6.1 - 6.1                                     |

A summary of stock-based compensation expense recognized in the consolidated statement of operations and comprehensive loss is as follows (in thousands):

|                            | <u>Year Ended December 31,</u><br><u>2022</u> |
|----------------------------|---|
| Cost of revenue            | \$ 10   |
| Research and development   | 11,223  |
| Sales and marketing        | 10,148  |
| General and administrative | 8,854   |
|                            | <u>\$ 30,235</u>                              |

### 2018 Equity Incentive Plan

The Company primarily grants stock-based compensation awards under its 2018 Equity Incentive Plan (“2018 Plan”). The 2018 Plan provides for the granting of incentive and nonqualified stock options to qualified

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employees, nonemployee directors, and consultants. Options granted under the 2018 Plan generally expire within 10 years from the date of grant, vest over four years and are exercisable for shares of the Company's common stock. As of December 31, 2022, the maximum aggregate number of shares that may be issued under the Plan was 75.0 million, of which 6.3 million shares remained available to be issued under the Plan.

A summary of stock option activity under the 2018 Plan is as follows (in thousands, except years and per share data):

|  | <u>Number of<br/>Shares</u> | <u>Weighted-Average<br/>Exercise Price</u> | <u>Weighted-Average<br/>Remaining<br/>Contractual Term<br/>(in years)</u> | <u>Aggregate<br/>Intrinsic<br/>Value</u> |
|--|-----------------------------|--|---|--|
| <b>Outstanding at December 31, 2021</b>            | 25,345                      | \$ 0.40                                    | 9.4   | \$ 74,967                                |
| Granted  | 4,370                       | 0.88                                       |   |  |
| Exercised  | (4,082)                     | 0.76                                       |   |  |
| Cancelled and forfeited                            | (959)                       | 0.29                                       |   |  |
| <b>Outstanding at December 31, 2022</b>            | <u>24,674</u>               | <u>\$ 0.43</u>                             | <u>8.5</u>  | <u>\$ 120,610</u>                        |
| <b>Vested and exercisable at December 31, 2022</b> | <u>8,929</u>                | <u>\$ 0.27</u>                             | <u>8.2</u>  | <u>\$ 45,061</u>                         |

When options are exercised, the Company's policy is to issue previously unissued shares of common stock. The intrinsic value of a stock option is calculated as the difference between the per share exercise price of the underlying stock option award and the estimated per share fair value of the Company's common stock at the measurement date. The total intrinsic value of options exercised during the year ended December 31, 2022 was \$17.6 million.

The weighted-average grant date fair value of options granted during the year ended December 31, 2022 was \$4.41 per share. The total grant date fair value of options vested during the year ended December 31, 2022 was \$9.5 million.

As of December 31, 2022, there was approximately \$32.2 million of total unrecognized compensation cost, related to unvested options, which is expected to be recognized over a weighted-average remaining requisite service period of 2.9 years, using the straight-line method.

### **Performance Grants**

The Company issued performance grants to certain employees for which the number of shares vesting depends on the achievement of certain performance targets for the Company, which the Company determined to be probable at the grant dates. The fair value was derived at the grant date using the Black-Scholes-Merton option-pricing model and stock-based compensation expense is recognized using the accelerated attribution method over the estimated vesting period. The Company recognized \$0.2 million of stock-based compensation expense related to performance grants during the year ended December 31, 2022. As of December 31, 2022, the Company had 1.4 million options outstanding and unvested related to performance grants. The stock-based compensation expense and options outstanding are included in the stock-based compensation expense and option activity tables above.

### **Options Subject to Early Exercise**

At the discretion of the Company's board of directors, certain options may be exercisable immediately at the date of grant but are subject to a repurchase right, under which the Company may repurchase any unvested shares at their original exercise price in the event of an employee's termination prior to full vesting. Common stock purchased pursuant to an early exercise of stock options is not deemed outstanding for accounting purposes until those shares vest. The Company includes unvested shares subject to repurchase in the number of shares

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outstanding in the consolidated balance sheet and statement of changes in redeemable convertible preferred stock and stockholders' deficit. The consideration received for an exercise of an unvested option is considered to be a deposit of the exercise price and the related dollar amount is recorded as a liability. The liabilities are reclassified into equity as the awards vest. As of December 31, 2022, \$1.7 million was included in accrued expenses and other current liabilities on the accompanying consolidated balance sheet related to the early exercise of common stock options that are subject to repurchase.

### 2019 Stock Appreciation Rights Plan

In 2019, the Company approved the 2019 Stock Appreciation Rights ("SAR") Plan. The SAR Plan authorizes the granting of SAR units to employees and nonemployees at the discretion of the Company's board of directors. The SAR unit holders earn value based on the per share value of the common stock multiplied by the number of vested SAR units held by a participant. The SAR units vest upon the occurrence of a triggering event for the Company defined as any of the following events; (i) the closing of the sale or transfer of all or substantially all the Company's assets (ii) the consummation of the merger or consolidation of the Company with or into another entity; (iii) the closing of the transfer by the Company; (iv) a transfer or a grant of an unlimited exclusive right to all or substantially all of this Company's intellectual property; or (v) a voluntary or involuntary liquidation, dissolution, or winding up of the Company. Vesting periods are determined by the board of directors and provide for the SAR units to typically vest over a four-year period and generally expire in 10 years.

A summary of SAR unit activity is as follows (in thousands, except per share data):

|   | Number of SAR<br>Units | Weighted-Average<br>Grant Date<br>Fair Value |
|---|------------------------|--|
| <b>Outstanding at December 31, 2021</b> | 4,234                  | \$ 0.49                                      |
| Granted                                 | 80                     | 5.46   |
| Cancelled                               | (4,314)                | 0.58   |
| <b>Outstanding at December 31, 2022</b> | <u>—</u>               | <u>\$ —</u>                                  |

The SAR units vest ratably over a four-year period with a 25% cliff vest after the first year and then vest monthly thereafter based on continued service. In addition, the SAR units will only vest and be paid out upon a triggering event, as defined above. No compensation expense will be recognized until the triggering event condition is considered to be probable, at which time the cumulative compensation expense will be recognized and the Company will record a liability for the future cash payment. As of December 31, 2022, the triggering events were not considered to be probable.

During the year ended December 31, 2022, the Company cancelled and replaced the SAR units with RSUs. The Company converted the time-based SARs into a RSU grant of equivalent value and similar time-based vesting period. No incremental expense was recognized for the exchange of SARs to RSUs as the fair market value of the SARs on the modification date equaled the fair market value of the RSUs issued.

### Restricted Stock Units

In 2022, the Company granted 10.3 million RSUs to employees. The RSUs had a grant date fair value of \$60.8 million. The RSUs vest upon the satisfaction of both a service condition and a performance condition. The service condition for these awards is generally satisfied over a four-year vesting period. The performance condition is satisfied upon the occurrence of a change in control of the Company or the consummation of an initial public offering of the Company's equity securities, as defined in such RSU agreements. As of December 31, 2022, no share-based compensation expense had been recognized for the RSUs because management determined that it is not probable that the performance condition will be achieved.



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If management had determined the performance condition was probable of achievement as of December 31, 2022, the Company would have recognized \$27.4 million of cumulative share-based compensation expense as of that date and would have \$33.4 million of unrecognized compensation cost that represents the RSUs that have not satisfied the service condition for vesting.

A summary of RSU activity is as follows (in thousands, except per share data):

|   | Number of<br>Restricted Stock<br>Units | Weighted-Average<br>Grant Date<br>Fair Value |
|---|--|--|
| <b>Outstanding at December 31, 2021</b> | \$ —                                   | \$ —   |
| Granted                                 | 10,330                                 | 5.95   |
| Vested                                  | —                                      | —  |
| Cancelled and forfeited                 | (114)                                  | 5.98   |
| <b>Outstanding at December 31, 2022</b> | <u>\$ 10,216</u>                       | <u>\$ 5.95</u>                               |

The aggregate fair value of RSUs granted was \$61.4 million during the year ended December 31, 2022.

### Secondary Transactions

During the year ended December 31, 2022, certain existing employees sold 2.8 million shares of Series A redeemable convertible preferred stock, 0.9 million shares of Series B redeemable convertible preferred stock, and 1.8 million shares of common stock to new and existing investors at purchase prices in excess of the estimated fair value of the Series D preferred stock and common stock at the time of the transaction (“2022 secondary transaction”). As a result, the Company recorded a total of \$17.7 million in stock-based compensation expense for the excess of the purchase price paid by these investors over the fair value of shares sold. The Company waived its rights of first refusal applicable to such shares. In connection with the secondary sales transaction, 19,443 shares of Series A were exchanged for 19,443 shares of Series A-1 preferred stock and 301,735 shares of Series B were exchanged for 301,735 shares of Series B-1 preferred stock. Upon completion of the Series D preferred stock exchange, the associated shares of common stock were retired.

### 11. Net Loss per Share

The Company follows the two-class method when computing net loss per common share when shares are issued that meet the definition of participating securities. The two-class method determines net income (loss) per share of common stock and participating securities according to dividends declared or accumulated and participation rights in undistributed earnings. The two-class method requires income (loss) available to common stockholders for the period to be allocated between common stock and participating securities based upon their respective rights to receive dividends as if all income (loss) for the period had been distributed. The holders of the Company’s redeemable convertible preferred stock would be entitled to dividends in preference to common stockholders, at specified rates, if declared. Such dividends are not cumulative. Any remaining earnings would be distributed among the holders of redeemable convertible preferred stock and common stock pro rata on an as-converted basis. The holders of the Company’s redeemable convertible preferred stock are not contractually obligated to participate in the Company’s losses.

Basic net loss per share is computed by dividing the net loss attributable to common stockholders by the weighted-average number of shares of common stock outstanding during the period, less shares subject to repurchase. The diluted net loss per share is computed by giving effect to all potentially dilutive securities outstanding for the period using the treasury stock method or the if-converted method. For periods in which the Company reports net losses, diluted net loss per common share is the same as basic net loss per common share, because all potentially dilutive securities are anti-dilutive.

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For the calculation of diluted net loss per share, net loss per share attributable to common stockholders for basic net loss per share is adjusted by the effect of dilutive securities, including awards under the Company's equity compensation plans. Diluted net loss per share attributable to common stockholders is computed by dividing the resulting net loss attributable to common stockholders by the weighted-average number of fully diluted common shares outstanding. For the year ended December 31, 2022, the Company's potentially dilutive shares relating to stock options, redeemable convertible preferred stock, RSUs, and common stock warrants, were not included in the computation of diluted net loss per share as the effect of including these shares in the calculation would have been anti-dilutive.

The following table sets forth the computation of basic and diluted net loss per share attributable to the Company's common stockholders (in thousands, except per share data):

|   | <u>Year Ended December 31,</u><br><u>2022</u> |
|---|---|
| <b>Numerator:</b>   |   |
| Net loss attributable to common stockholders  | \$ (58,345)                                   |
| <b>Denominator:</b>   |   |
| Weighted-average shares used in computing net loss per share attributable to common stockholders, basic and diluted | 68,343  |
| Net loss per share attributable to common stockholders, basic and diluted   | <u>\$ (0.85)</u>                              |

As the Company was in a loss position for the year ended December 31, 2022, basic net loss per share is the same as diluted net loss per share as the inclusion of all potential common shares outstanding would have been anti-dilutive. Potentially dilutive securities that were not included in the diluted net loss per share calculations because they would have been anti-dilutive were as follows (in thousands):

|  | <u>Year Ended December 31,</u><br><u>2022</u> |
|--|---|
| Options to purchase common stock       | 24,674  |
| Redeemable convertible preferred stock | 181,781                                       |
| Unvested RSUs                          | 10,216  |
| Warrants for common stock              | 3,221   |
| Total                                  | <u>219,892</u>                                |

## 12. Income Taxes

The U.S. and non-U.S. components of loss before income taxes consist of the following (in thousands):

|                           | <u>Year Ended December 31,</u><br><u>2022</u> |
|---------------------------|---|
| United States             | \$ (58,059)                                   |
| International             | 478   |
| Loss before incomes taxes | <u>\$ (57,581)</u>                            |

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The provision for income taxes consists of the following (in thousands):

|                            | Year Ended December 31,<br>2022 |
|----------------------------|---------------------------------|
| Current                    |                                 |
| U.S. Federal               | \$ 666                          |
| State                      | 6                               |
| International              | 92                              |
| Total current tax expense  | <u>764</u>                      |
| Deferred                   |                                 |
| U.S. Federal               | —                               |
| State                      | —                               |
| International              | —                               |
| Total deferred tax expense | —                               |
| Total income tax expense   | <u>\$ 764</u>                   |

The effective tax rate differs from the U.S. federal statutory rate as follows (in thousands):

|                               | Year Ended December 31,<br>2022 |
|-------------------------------|---------------------------------|
| Federal statutory tax         | 21.0%                           |
| State taxes                   | 2.3                             |
| Change in valuation allowance | (17.2)                          |
| General business credits      | 2.6                             |
| Stock-based compensation*     | (10)                            |
| Effective tax rate            | <u>(1.3)%</u>                   |

\* Includes stock-based compensation and stock-based compensation related to secondary transactions and 83(b) elections

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Deferred income taxes reflect the net effects of temporary differences between the carrying amounts of assets and liabilities for financial reporting purposes and the amounts used for income tax purposes. The tax effects of the temporary differences and carryforwards that give rise to deferred tax assets and liabilities consist of the following (in thousands):

|  | <u>As of December 31,</u><br><u>2022</u> |
|--|--|
| Deferred tax assets                                  |  |
| Net operating losses                                 | \$ 925                                   |
| General business credits                             | 3,155                                    |
| Intangibles  | 19,353                                   |
| Stock-based compensation                             | 1,586                                    |
| Other  | 436                                      |
| Total deferred tax assets before valuation allowance | <u>25,455</u>                            |
| Deferred tax liabilities                             |  |
| Stock-based compensation – 83(b) elections           | (3,230)                                  |
| ROU assets   | (283)                                    |
| Fixed assets   | (715)                                    |
| Total deferred tax liabilities                       | <u>(4,228)</u>                           |
| Less: valuation allowance                            | <u>(21,227)</u>                          |
| Net deferred tax assets after valuation allowance    | <u>\$ —</u>                              |

In determining the need for a valuation allowance, the Company reviewed both positive and negative evidence pursuant to the requirements of ASC 740, *Income Taxes*, including current and historical results of operations, future income projections, and potential tax planning strategies. A significant piece of objective negative evidence evaluated was the cumulative loss incurred over the three-year period ended December 31, 2022. Such objective evidence limits the ability to consider other subjective evidence such as its projections for future growth. On the basis of this evaluation, as of December 31, 2022, a valuation allowance of \$21.3 million has been recorded, which reflects an increase in the valuation allowance of \$9.9 million for the year ended December 31, 2022.

As of December 31, 2022, the Company had gross federal net operating loss carryforwards of approximately \$2.1 million, which can be carried forward indefinitely, and state net operating loss carryforwards of \$6.8 million, which begin to expire in 2038. Net operating losses and tax credit carryforwards may become subject to an annual limitation in the event of certain cumulative changes in the ownership interest of significant shareholders over a three-year period in excess of 50%, as defined under Sections 382 and 383 of the Internal Revenue Code, respectively, as well as similar state provisions. This could limit the amount of tax attributes that can be utilized annually to offset future taxable income or tax liabilities. The amount of the annual limitation is determined based on the value of the Company immediately prior to the ownership change. Subsequent ownership changes may further affect the limitation in future years. The Company has performed a preliminary Section 382 analysis and based on this analysis, it estimates that approximately \$0.2 million of its federal R&D credits will expire unutilized and has therefore removed them from the deferred tax asset and related carryforward disclosures as of December 31, 2022.

The Company has adopted guidance issued by the FASB that clarifies the accounting for uncertainty in income taxes recognized in the Company's consolidated financial statements and prescribes a recognition threshold of more likely than not and a measurement process for consolidated financial statement recognition and measurement of a tax position taken or expected to be taken in a tax return. In making this assessment, a company must determine whether it is more likely than not that a tax position will be sustained upon examination, based solely on the technical merits of the position, and must assume that the tax position will be examined by taxing authorities.

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The Company had approximately \$3.2 million unrecognized tax benefits as of December 31, 2022. The unrecognized tax benefits, if recognized, would not have an impact on the Company's effective tax rate assuming the Company continues to maintain a full valuation allowance position.

A reconciliation of the beginning and ending amount of the Company's unrecognized tax benefits is as follows (in thousands):

|   | <b>Year Ended December 31,</b> |
|---|--------------------------------|
|   | <b>2022</b>                    |
| Balance, beginning of period                    | \$ 2,005                       |
| Decreases related to prior year tax positions   | (844)                          |
| Increases related to current year tax positions | 2,001                          |
| <b>Balance, end of period</b>                   | <b>\$ 3,162</b>                |

The Company is not currently under examination by the United States Internal Revenue Service or any other state, city, or local jurisdiction. The Company's tax years from inception are subject to examination by the Internal Revenue Service and state taxing authorities due to the carryforward of unutilized net operating losses. The Company does not anticipate any significant changes to its unrecognized tax positions within the next twelve months.

Deferred income taxes have not been provided for undistributed earnings of the Company's consolidated foreign subsidiaries because of the Company's intent to reinvest such earnings indefinitely in active foreign operations. The Company believes that future domestic cash generation will be sufficient to meet future domestic cash needs. The Company has not recorded a deferred tax liability on the undistributed earnings of non-U.S. subsidiaries. The foreign withholding taxes would not have a material impact on the Company's financial position and results of operation. As of December 31, 2022, the Company had \$0.5 million in unremitted earnings that were permanently reinvested related to its consolidated foreign subsidiaries.

### **13. Subsequent Events**

The Company evaluated subsequent events and transactions through March 7, 2023, the date these consolidated financial statements were originally available to be issued.

In January 2023, the Company extended its operating lease in Santa Clara, California from the original expiration date in December 2023 to April 2025. The updated minimum lease payments related to the Santa Clara lease as a result of the extension are as follows:

| <u>Years ending December 31,</u>    |                |
|-------------------------------------|----------------|
| 2023                                | \$1,285        |
| 2024                                | 1,396          |
| 2025                                | 359            |
| 2026                                | —              |
| 2027                                | —              |
| Thereafter                          | —              |
| Total future minimum lease payments | <u>\$3,040</u> |

### **Events Subsequent to Original Issuance of the Consolidated Financial Statements (Unaudited)**

Subsequent to the original issuance, the Company has revised the financial statements to include segment and geographic information and net loss per share disclosed in Note 2 and Note 11, respectively. In connection with the reissuance of the consolidated financial statements, the Company has evaluated subsequent events through November 13, 2023, the date these consolidated financial statements were available to be reissued.

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In October 2023, the Company amended the warrant agreement and issued an additional warrant to purchase an aggregate of up to 1,663,890 shares of common stock at an exercise price of \$10.17 per share (the “2023 Warrant”) with same exercise period as the Customer Warrant originally issued. The 2023 Warrant becomes exercisable over the contract term based on the amount of global payments by the Holder and its affiliates to the Company.

*Shares*



*Astera Labs, Inc.*

*Common Stock*

*Preliminary Prospectus*

*Morgan Stanley*

*J.P. Morgan*

, 2024

***Through and including , 2024 (the 25th day after the date of this prospectus), all dealers effecting transactions in these securities, whether or not participating in this offering, may be required to deliver a prospectus. This is in addition to the dealers' obligation to deliver a prospectus when acting as underwriters and with respect to their unsold allotments or subscriptions.***

**PART II****INFORMATION NOT REQUIRED IN PROSPECTUS****Item 13. Other Expenses of Issuance and Distribution.**

The following table sets forth all expenses to be paid by us, other than underwriting discounts and commissions, in connection with this offering. All amounts shown are estimates except for the SEC registration fee, the FINRA filing fee and the listing fee.

|                                   | <u>Amount</u> |
|-----------------------------------|---------------|
| SEC registration fee              | \$ *          |
| FINRA filing fee                  | *             |
| listing fee                       | *             |
| Printing and engraving            | *             |
| Legal fees and expenses           | *             |
| Accounting fees and expenses      | *             |
| Transfer agent and registrar fees | *             |
| Miscellaneous                     | *             |
| Total                             | <u>\$ *</u>   |

\* To be provided by amendment.

**Item 14. Indemnification of Directors and Officers.**

Section 145 of the DGCL authorizes a corporation's board of directors to grant, and authorizes a court to award, indemnity to officers, directors, and other corporate agents.

We expect to adopt a second amended and restated certificate of incorporation in connection with this offering, which will become effective immediately prior to the completion of this offering, and which will contain provisions that limit the liability of our directors and officers for monetary damages to the fullest extent permitted by Delaware law. Consequently, our directors and officers will not be personally liable to us or our stockholders for monetary damages for any breach of fiduciary duties as directors and officers, except liability for the following:

- any breach of their duty of loyalty to our company or our stockholders;
- any act or omission not in good faith or that involves intentional misconduct or a knowing violation of law;
- for our directors, unlawful payments of dividends or unlawful stock repurchases, or redemptions as provided in Section 174 of the DGCL;
- any transaction from which they derived an improper personal benefit; or
- for our officers, any derivative action by or in the right of the corporation.

Any amendment to, or repeal of, these provisions will not eliminate or reduce the effect of these provisions in respect of any act, omission or claim that occurred or arose prior to that amendment or repeal. If the DGCL is amended to provide for further limitations on the personal liability of directors and officers of corporations, then the personal liability of our directors and officers will be further limited to the greatest extent permitted by the DGCL.

In addition, we expect to adopt second amended and restated bylaws in connection with this offering, which will become effective immediately prior to the completion of this offering and which will provide that we will



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indemnify, to the fullest extent permitted by law, any person who is or was a party or is threatened to be made a party to any action, suit or proceeding by reason of the fact that he or she is or was one of our directors or officers or is or was serving at our request as a director or officer of another corporation, partnership, joint venture, trust or other enterprise. Our second amended and restated bylaws are expected to provide that we may indemnify to the fullest extent permitted by law any person who is or was a party or is threatened to be made a party to any action, suit or proceeding by reason of the fact that he or she is or was one of our employees or agents or is or was serving at our request as an employee or agent of another corporation, partnership, joint venture, trust or other enterprise. Our second amended and restated bylaws will also provide that we must advance expenses incurred by or on behalf of a director or officer in advance of the final disposition of any action or proceeding, subject to very limited exceptions.

Further, prior to the completion of this offering, we expect to enter into indemnification agreements with each of our directors and executive officers that may be broader than the specific indemnification provisions contained in the Delaware General Corporation Law. These indemnification agreements will require us, among other things, to indemnify our directors and executive officers against liabilities that may arise by reason of their status or service. These indemnification agreements will also require us to advance all expenses incurred by the directors and executive officers in investigating or defending any such action, suit, or proceeding. We believe that these agreements are necessary to attract and retain qualified individuals to serve as directors and executive officers.

The limitation of liability and indemnification provisions that are expected to be included in our second amended and restated certificate of incorporation, amended restated bylaws and in indemnification agreements that we enter into with our directors and executive officers may discourage stockholders from bringing a lawsuit against our directors and executive officers for breach of their fiduciary duties. They may also reduce the likelihood of derivative litigation against our directors and executive officers, even though an action, if successful, might benefit us and other stockholders. Further, a stockholder's investment may be harmed to the extent that we pay the costs of settlement and damage awards against directors and executive officers as required by these indemnification provisions. At present, we are not aware of any pending litigation or proceeding involving any person who is or was one of our directors, officers, employees or other agents or is or was serving at our request as a director, officer, employee or agent of another corporation, partnership, joint venture, trust or other enterprise, for which indemnification is sought, and we are not aware of any threatened litigation that may result in claims for indemnification.

We have or will obtain, prior to the completion of this offering, obtained insurance policies under which, subject to the limitations of the policies, coverage is provided to our directors and executive officers against losses arising from claims made by reason of breach of fiduciary duty or other wrongful acts as a director or executive officer, including claims relating to public securities matters, and to us with respect to payments that may be made by us to these directors and executive officers pursuant to our indemnification obligations or otherwise as a matter of law.

The underwriting agreement to be filed as Exhibit 1.1 to this registration statement provides for indemnification by the underwriters of the Registrant and its officers and directors for certain liabilities arising under the Securities Act and otherwise.

### **Item 15. Recent Sales of Unregistered Securities.**

Since January 1, 2020, we made sales of the following unregistered securities:

#### ***Preferred Stock Issuances***

In February 2020, we sold an aggregate of 12,740,810 shares of Series B Preferred Stock at a purchase price of \$0.39244 per share, for an aggregate purchase price of approximately \$5.0 million.

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From August 2021 through September 2021, we sold an aggregate of 15,619,647 shares of Series C Preferred Stock at a purchase price of \$3.3618 per share, for an aggregate purchase price of approximately \$52.5 million.

From May 2022 through September 2022, we sold an aggregate of 16,576,267 shares of Series D Preferred Stock at a purchase price of \$10.1695 per share, for an aggregate purchase price of approximately \$168.6 million.

### ***Option and RSU Issuances***

Since January 1, 2020, we granted certain employees, consultants, and directors options to purchase an aggregate of \_\_\_\_\_ shares of our common stock under our 2018 Plan, at exercise prices ranging from \$ \_\_\_\_\_ to \$ \_\_\_\_\_ per share.

Since January 1, 2020, we issued an aggregate of \_\_\_\_\_ shares of our common stock to certain employees, consultants, and directors upon the exercise of options granted under our 2018 Plan, at exercise prices ranging from \$ \_\_\_\_\_ to \$ \_\_\_\_\_ per share, for an aggregate exercise price of \$ \_\_\_\_\_.

Since January 1, 2020, we granted to our employees, consultants, and other service providers restricted stock units representing an aggregate of \_\_\_\_\_ shares of common stock under our 2018 Plan.

Since January 1, 2020, we issued and sold to our employees, consultants, and other service providers an aggregate of \_\_\_\_\_ shares of common stock upon the vesting and settlement of RSUs granted under our 2018 Plan.

### ***Warrants***

In April 2021, in connection with our Loan and Security Agreement, we issued to Silicon Valley Bank a warrant to purchase up to an aggregate of 252,370 shares of our common stock at an exercise price of \$0.15 per share.

In October 2022, we issued to Amazon.com NV Investment Holdings, LLC a warrant to purchase up to an aggregate of 2,968,460 shares of our common stock at an exercise price of \$10.17 per share. In October 2023, we amended the Customer Warrant and issued an additional warrant to purchase additional 1,663,890 shares of common stock at an exercise price of \$10.17 per share.

These transactions were deemed exempt from registration under the Securities Act in reliance upon Section 4(a)(2) of the Securities Act, or Regulation D promulgated thereunder, or Rule 701 promulgated under Section 3(b) of the Securities Act as transactions by an issuer not involving any public offering or pursuant to benefit plans and contracts relating to compensation as provided under Rule 701. The recipients of the securities in each of these transactions represented their intentions to acquire the securities for investment only and not with a view to or for sale in connection with any distribution thereof, and appropriate legends were placed upon the stock certificates issued in these transactions. All recipients had adequate access, through their relationships with us, to information about Astera.

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### Item 16. Exhibits and Financial Statement Schedules.

#### (a) Exhibits.

| <u>Exhibit Number</u> | <u>Exhibit Title</u>  |
|-----------------------|---|
| 1.1*                  | Form of Underwriting Agreement.   |
| 3.1*                  | Amended and Restated Certificate of Incorporation of the Registrant, as amended, as currently in effect.  |
| 3.2*                  | Form of Second Amended and Restated Certificate of Incorporation of the Registrant, to be in effect immediately prior to the completion of this offering.           |
| 3.3*                  | Amended and Restated Bylaws of the Registrant, as currently in effect.  |
| 3.4*                  | Form of Second Amended and Restated Bylaws of the Registrant, to be in effect immediately prior to the completion of this offering.                                 |
| 4.1*                  | Form of common stock certificate of the Registrant.   |
| 4.2*                  | Amended and Restated Investors' Rights Agreement by and among the Registrant and the investors thereto.   |
| 5.1*                  | Opinion of Goodwin Procter LLP.   |
| 10.1*                 | Form of Indemnification Agreement between the Registrant and each of its directors and executive officers.  |
| 10.2#*                | 2018 Equity Incentive Plan, as amended, and forms of award agreements thereunder.   |
| 10.3#*                | 2024 Stock Option and Incentive Plan, and forms of award agreements thereunder.   |
| 10.4#*                | 2024 Employee Stock Purchase Plan.  |
| 10.5#*                | Change of Control Severance Policy.   |
| 10.6#*                | Senior Executive Cash Incentive Bonus Plan.   |
| 10.7#*                | Offer Letter by and between the Registrant and Jitendra Mohan, dated March 13, 2018.  |
| 10.8#*                | Offer Letter by and between the Registrant and Sanjay Gajendra, dated March 13, 2018.   |
| 10.9#*                | Executive Employment Agreement by and between the Registrant and Michael Tate, dated July 21, 2020.   |
| 10.10#*               | Offer Letter by and between the Registrant and Philip Mazzara, dated February 7, 2022.  |
| 10.11*                | Warrant Agreement with Silicon Valley Bank, dated April 30, 2021.   |
| 10.12†*               | Warrant Agreement with Amazon.com NV Investment Holdings, LLC, dated October 14, 2022, as amended by Amendment No. 1 to Warrant Agreement, signed October 31, 2023. |
| 21.1*                 | Subsidiaries of the Registrant.   |
| 23.1*                 | Consent of PricewaterhouseCoopers LLP, independent registered public accounting firm.   |
| 23.2*                 | Consent of Goodwin Procter LLP (included in Exhibit 5.1).   |
| 24.1*                 | Power of Attorney (included on signature page to this Registration Statement on Form S-1).  |
| 107*                  | Filing Fee Table.   |

\* To be filed by amendment.

# Indicates management contract or compensatory plan, contract or agreement.

† Certain confidential information contained in this exhibit has been omitted because it is both (i) not material and (ii) is the type that the Registrant treats as private or confidential.

#### (b) Financial Statement Schedules.

All schedules are omitted because the required information is either not present, not present in material amounts or is presented within the consolidated financial statements included in the prospectus that is part of this registration statement.

**Item 17. Undertakings.**

The undersigned Registrant hereby undertakes to provide to the underwriters at the closing specified in the underwriting agreement certificates in such denominations and registered in such names as required by the underwriters to permit prompt delivery to each purchaser.

Insofar as indemnification by the Registrant for liabilities arising under the Securities Act may be permitted to directors, officers, and controlling persons of the Registrant pursuant to the foregoing provisions, or otherwise, the Registrant has been advised that in the opinion of the Securities and Exchange Commission such indemnification is against public policy as expressed in the Securities Act and is, therefore, unenforceable. In the event that a claim for indemnification against such liabilities (other than the payment by the Registrant of expenses incurred or paid by a director, officer or controlling person of the Registrant in the successful defense of any action, suit or proceeding) is asserted by such director, officer or controlling person in connection with the securities being registered, the Registrant will, unless in the opinion of its counsel the matter has been settled by controlling precedent, submit to a court of appropriate jurisdiction the question whether such indemnification by it is against public policy as expressed in the Securities Act and will be governed by the final adjudication of such issue.

The undersigned Registrant hereby undertakes that:

- (1) For purposes of determining any liability under the Securities Act, the information omitted from the form of prospectus filed as part of this registration statement in reliance upon Rule 430A and contained in a form of prospectus filed by the Registrant pursuant to Rule 424(b)(1) or (4) or 497(h) under the Securities Act shall be deemed to be part of this registration statement as of the time it was declared effective.
- (2) For the purpose of determining any liability under the Securities Act, each post-effective amendment that contains a form of prospectus shall be deemed to be a new registration statement relating to the securities offered therein, and the offering of such securities at that time shall be deemed to be the initial bona fide offering thereof.

## SIGNATURES

Pursuant to the requirements of the Securities Act of 1933, as amended, the Registrant has duly caused this Registration Statement to be signed on its behalf by the undersigned, thereunto duly authorized, in Santa Clara, California, on \_\_\_\_\_, 2024.

### ASTERA LABS, INC.

By: \_\_\_\_\_  
Name: Jitendra Mohan  
Title: Chief Executive Officer

## POWER OF ATTORNEY

KNOW ALL PERSONS BY THESE PRESENTS, that each person whose signature appears below constitutes and appoints Jitendra Mohan, Michael Tate, and Philip Mazzara, and each of them, as his or her true and lawful attorneys-in-fact and agents, with full power of substitution and resubstitution, for him or her and in his or her name, place and stead, in any and all capacities, to sign the Registration Statement on Form S-1 of Astera Labs, Inc., and any or all amendments (including post-effective amendments) thereto and any new registration statement with respect to the offering contemplated thereby filed pursuant to Rule 462(b) of the Securities Act of 1933, as amended, and to file the same, with all exhibits thereto, and other documents in connection therewith, with the Securities and Exchange Commission, granting unto said attorneys-in-fact and agents full power and authority to do and perform each and every act and thing requisite or necessary to be done in connection therewith and about the premises, as fully to all intents and purposes as he or she might or could do in person, hereby ratifying and confirming all that said attorneys-in-fact and agents, or their, his or her substitute or substitutes, may lawfully do or cause to be done by virtue hereof.

Pursuant to the requirements of the Securities Act of 1933, as amended, this registration statement on Form S-1 has been signed by the following persons in the capacities and on the dates indicated.

| <u>Signature</u>           | <u>Title</u>  | <u>Date</u> |
|----------------------------|---|-------------|
| _____<br>Jitendra Mohan    | Co-Founder, Chief Executive Officer, and Director<br><i>(Principal Executive Officer)</i> | _____, 2024 |
| _____<br>Michael Tate      | Chief Financial Officer<br><i>(Principal Financial and Accounting Officer)</i>            | _____, 2024 |
| _____<br>Manuel Alba       | Director  | _____, 2024 |
| _____<br>Stefan Dyckerhoff | Director  | _____, 2024 |
| _____<br>Sanjay Gajendra   | Co-Founder, President, Chief Operating Officer, and<br>Director                           | _____, 2024 |
| _____<br>Michael Hurlston  | Director  | _____, 2024 |
| _____<br>Jack Lazar        | Director  | _____, 2024 |