Second Quarter 2026 Conference Call

August 11, 2026

Legal Disclaimer

Forward-Looking Statements

This presentation includes “forward-looking statements” within the meaning of the “safe harbor” provisions of the United States Private Securities Litigation Reform Act of 1995. Forward-looking statements may be identified by the use of words such as “future,” “growth,” “opportunity,” “well-positioned,” "forecast," "intend," "seek," "target," “anticipate,” “believe,” “expect,” “estimate,” “plan,” “outlook,” “project,” “may,” “could,” and “should,” and other similar expressions that predict or indicate future events or trends or that are not statements of historical matters. These forward-looking statements may be included throughout this presentation, and include, but are not limited to, statements relating to Ambiq Micro’s (“Ambiq,” the “Company,” “we,” “us” or similar terms) expectations around its strategic initiatives, growth trajectory and expected third quarter and full year business outlook. By their nature, forward-looking statements are not statements of historical fact or guarantees of future performance and are subject to risks, uncertainties, assumptions or changes in circumstances that are difficult to predict or quantify including those described in the section titled "Risk Factors" in Ambiq’s 10-K, as well as in other filings we may make with the SEC in the future. Our expectations, beliefs and projections are expressed in good faith and we believe there is a reasonable basis for them. However, there can be no assurance that our expectations, beliefs and projections will result or be achieved and actual results may vary materially from what is expressed in or indicated by the forward-looking statements. Any forward-looking statement in this presentation speaks only as of the date of this presentation. We undertake no obligation to publicly update or review any forward-looking statement, whether as a result of new information, future developments or otherwise, except as may be required by any applicable securities laws.

Non-GAAP Financial Measures

Ambiq supplements its reporting of financial information determined under generally accepted accounting principles in the United States of America (GAAP), including the use of non-GAAP gross profit, non-GAAP gross margin, non-GAAP operating expenses and non-GAAP net loss. These non-GAAP financial measures help management make strategic decisions, establish budgets and operational goals for managing the business, analyzing financial results, and evaluating business performance. Ambiq defines non-GAAP gross profit as gross profit adjusted to exclude expenses not directly attributable to gross profit, such as depreciation and amortization, stock-based compensation and gain on nonmonetary transactions. Ambiq defines non-GAAP gross margin as non-GAAP gross profit as a percentage of net sales. Ambiq defines non-GAAP operating expenses as operating expenses adjusted to exclude expenses not directly attributable to operating expenses such as depreciation and amortization, stock-based compensation, severance costs and IPO and other transaction costs, as applicable. Ambiq defines non-GAAP net loss as net loss adjusted to exclude expenses not directly attributable to the performance of operations, such as income taxes, depreciation and amortization, stock-based compensation, gain on nonmonetary transactions, severance costs, IPO and other transactions costs and warrant valuation.

Ambiq believes these non-GAAP financial measures provide additional tools for investors to use in comparing core business and results of operations over multiple periods with other companies in the industry, many of which present similar non-GAAP financial measures. However, Ambiq's presentation of non-GAAP gross profit, non-GAAP gross margin, non-GAAP operating expenses, non-GAAP net loss may not be comparable to similarly titled measures reported by other companies due to differences in the way that these measures are calculated. These non-GAAP measures have limitations, and should not be considered as the sole measures of our performance and should not be considered in isolation from, or as a substitute for, the most comparable measure calculated in accordance with GAAP.

Today's Agenda

Charlene Wan
Vice President of Corporate Marketing & Investor Relations

Welcome

Fumihide Esaka
Chief Executive Officer

Business Update

Jeffrey Winzeler
Chief Financial Officer

Results and Outlook

Business Update

Executive Summary

Step-change in demand strengthens conviction in long-term opportunity

Continuing to outpace market growth through differentiated technology

Accelerating demand in 2H26, constrained by supply availability

Investing strategically to support long-term sustainable growth

Well-positioned to enable the next wave of edge AI adoption

~90%
2Q26 Net Sales Growth

~100%
3Q26 Expected YoY Net Sales Growth[1]

>2X
Expected Non-Personal Device Revenue Growth 2026E vs. 2025A

3
New Hardware Products in Development

4
AI Software Product Launches YTD

$168M
June Follow-on Offering Net Proceeds

1. At midpoint of guidance. See slide 17 for additional information on our 3Q 2026 outlook.

Second Quarter Highlights

Net sales exceeded guidance

- Healthy end user demand, new launches and ramp of new large customer
- Strong year-over-year growth across Apollo3, Apollo4 and Apollo5
- Lean channel inventory and continued expedite requests

Positioned for continued momentum

- Continuing to diversify and grow revenue base
- Underlying edge AI demand expected to strengthen in 2H
- Capacity actions underway to support customer needs
- Enhanced financial flexibility following June follow-on offering

$33.9M
Net Sales

47.2%
Non-GAAP Gross Margin[1]

$16.0M
Non-GAAP Gross Profit[1]

1. Non-GAAP gross margin and non-GAAP gross profit are non-GAAP financial measures. Please refer to the Appendix for reconciliation to the nearest GAAP measure.

Secular Tailwinds Powering Our Growth

Ambiq is positioned to lead in edge AI with unmatched ultra-low power technology and a broad, scalable platform across devices and use cases

Smart Rings

Smart Watches

Smart Bands

Smart Eyewear

- Customers increasingly embedding sophisticated AI capabilities across a broader range of devices
- More sophisticated AI workloads driving demand for higher performance within constrained power budgets
- On-device processing enabling lower latency, greater privacy and more reliable real-time intelligence

Advancing Comprehensive Edge AI SoC Portfolio Through Innovation

	Apollo3	Apollo4	Apollo5	Atomiq
Processor Core	Cortex M4 or M55	Cortex M4	Cortex M55	Cortex M55
Process Node	40nm or 22nm	22nm	22nm	12nm
Features		GPU	GPU	NPU, DRAM, GPU
Connectivity	Bluetooth LE, Bluetooth Classic, Thread, Matter	Bluetooth LE	Bluetooth LE, Bluetooth Classic	To be announced
ASP	$	$$	$$$	$$$$
Edge AI Capabilities	★ Basic Analytics	★★ Complex Analytics	★★★ Complex Analytics, Audio	★★★★ Complex Analytics, Audio, Vision

Strong and Diverse Edge AI Pipeline


Ear Protection


Worker Safety


Smart Grid Sensors


Continuous Glucose Monitors


Smart Remote


Hearing Aids

Vibrational Sensors

Cardiac Monitors


Water & Gas Meters

Smart Sleep Mask

- Monitors and interprets and improves sleep quality
- Adaptive sleep aid music adjusts in real-time
- Provides personalized sleep solutions

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Unlocking Access to New Markets and Edge AI Use Cases

more radio protocols | extended temp | lower prices | smaller form factors

APOLLO510 — **APOLLO510 LITE** — **APOLLO330**

- Personal Devices
- Industrial Edge
- Smart Home & Buildings
- Medical & Healthcare

New Software Tools and AI Models

heliaAOT™ heliaRT™ heliaPROFILER™ heartKIT™ soundKIT™

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Unlocking Access to New Markets and Edge AI Use Cases

more radio protocols | extended temp | lower prices | smaller form factors | *mass market AI* | *derivatives*

APOLLO510 — APOLLO510 LITE — APOLLO330 — APOLLO340

Personal Devices

Industrial Edge

Smart Home & Buildings

Medical & Healthcare

New Software Tools and AI Models

heliaAOT™ heliaRT™ heliaPROFILER™ heartKIT™ soundKIT™ compressionKIT™

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Unlocking Access to New Markets and Edge AI Use Cases

more radio protocols | extended temp | lower prices | smaller form factors | *mass market AI* | *derivatives* | *npu* | *vision*

APOLLO510 — **APOLLO510 LITE** — **APOLLO330** — **APOLLO340** — **ATOMIQ**

Personal Devices

Industrial Edge

Smart Home & Buildings

Medical & Healthcare

New Software Tools and AI Models

heliaAOT™ heliaRT™ heliaPROFILER™ heartKIT™ soundKIT™ compressionKIT™ visionKIT™

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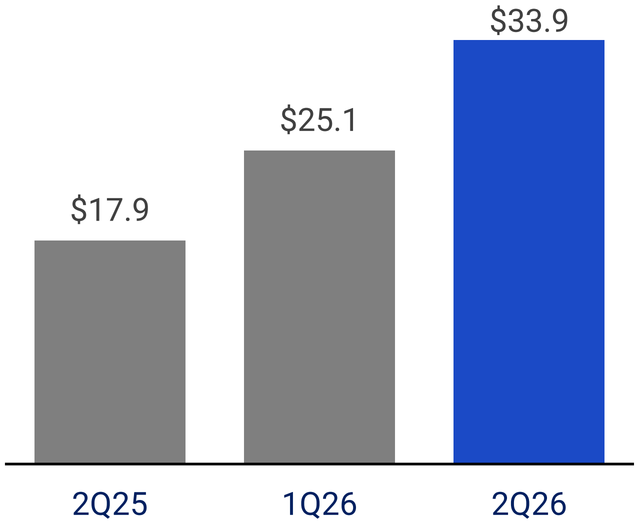
Results & Outlook

Quarterly Financial Results

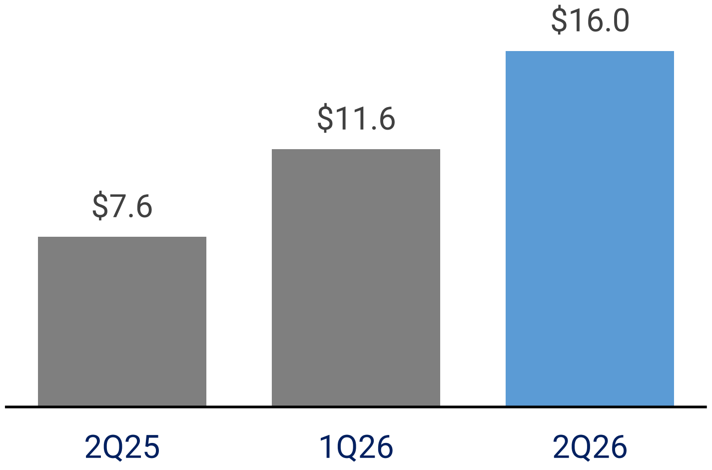
Net Sales

(dollars in millions)

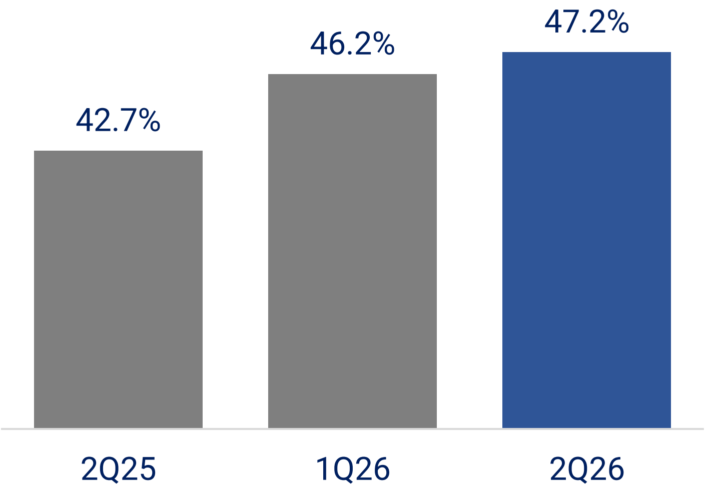


Non-GAAP Gross Profit[1]

(dollars in millions)



Non-GAAP Gross Margin[1]



Strong momentum in 2Q with year-over-year and sequential growth in net sales, non-GAAP gross profit and non-GAAP gross margin

1. Non-GAAP gross profit and non-GAAP gross margin are non-GAAP financial measures. Please refer to the Appendix for reconciliation to the nearest GAAP measure.

Second Quarter Key Takeaways

- ❑ Meaningful net sales growth reflected accelerating demand across our business
- ❑ Continued to diversify revenue across customers, end markets and geographies
- ❑ Non-GAAP gross margin[1] expansion supported by favorable mix and improved manufacturing efficiencies
- ❑ Non-GAAP operating expense[1] reflected continued investment in next-generation products and IP development

	2Q26	YoY
Net Sales	**$33.9M**	*+89.7%*
Non-GAAP Gross Profit[1]	**$16.0M**	*+109.3%*
Non-GAAP Gross Margin[1]	**47.2%**	*+4.5 pts*
Non-GAAP Op Ex[1]	**$19.4M**	*+40.2%*
Non-GAAP Net Loss Per Share[1]	**$(0.07)**	*NM*

1. Non-GAAP gross profit, non-GAAP gross margin, non-GAAP op ex and non-GAAP net loss per share are non-GAAP financial measures. Please refer to the Appendix for reconciliation to the nearest GAAP measure.

Strong Balance Sheet

As of 6/30/26

Total Assets
$435.6 Million

Total Liabilities
$31.0 Million

No Outstanding Debt

Strong financial position provides the flexibility to invest in product development, software and working capital needs to support growth

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Financial Outlook[1]

3Q26 Drivers

- Expect underlying edge AI demand to further strengthen in 2H26
- Net sales constrained by industry-wide supply availability
- Working closely with supply chain partners to improve supply flexibility
- Gross margin benefitting from favorable mix and manufacturing efficiencies

FY26 Expectations

- Approximately $135M in full-year net sales
- 2H26 net sales more than doubling year-over-year, even with supply constraints
- Modest year-over-year improvement in full year non-GAAP gross margin
- Operating expenses of approximately $85M, including $7 - $10M of planned IP investments

3Q 2026 Outlook

Net Sales	*$36.0M - $37.0M*
Non-GAAP Gross Margin[2]	*46.5% - 47.5%*
Non-GAAP Op Ex[2]	*$24.0M - $25.0M*
Non-GAAP Net Loss Per Share[2]	*$(0.20) – $(0.12)*

1. As of August 11, 2026.
2. Ambiq's financial outlook is based on assumptions that it believes to be reasonable as of the date of this release, but may be materially affected by many factors, as discussed below in "Forward-Looking Statements." Actual results may vary from the guidance and the variations may be material. We undertake no intent or obligation to publicly update or revise this outlook, whether as a result of new information, future events or otherwise, except as required by law. The Company is unable to include a reconciliation of forward-looking non-GAAP net loss per share, non-GAAP gross margin and non-GAAP operating expense to the most directly comparable GAAP measure without unreasonable effort due to the high variability with respect to the impact of items such as depreciation and amortization and, stock-based compensation expense and other items that are excluded from these non-GAAP measures.

Well Positioned for Future Growth

Delivered sequential and YOY growth in net sales, non-GAAP gross profit and non-GAAP gross margin

Accelerating demand for edge AI supports continued top-line momentum

Continuing to expand into key end markets through Apollo and software innovation

Enabling heavier edge AI capabilities and expanding our reach with Atomiq and Apollo launches

Driving margin expansion from improved yields and continued end-market diversification

Maintaining strong liquidity with ample dry powder to invest in strategic growth initiatives

Appendix:
Non-GAAP Reconciliations

Non-GAAP Financial Measures

	Three Months ended June 30,	
($ in thousands)	**2026**	**2025**
Net loss	$(7,115)	$(8,496)
Add:		
Income taxes	1	14
Depreciation and amortization	1,785	1,853
Stock-based compensation	3,557	765
Warrant valuation	—	2
Non-GAAP net loss	$(1,772)	$(5,862)
Non-GAAP net loss per share	$(0.07)	$(13.03)

Non-GAAP Financial Measures

	Three Months ended June 30,		Three Months ended March 31,
($ in thousands)	**2026**	**2025**	**2026**
Gross profit	$15,267	$7,170	$10,891
Add:			
Depreciation and amortization	504	430	499
Stock-based compensation	218	40	187
Non-GAAP gross profit	$15,989	$7,640	$11,577
Gross Margin	45.0%	40.1%	43.5%
Non-GAAP Gross Margin	47.2%	42.7%	46.2%

Non-GAAP Financial Measures

	Three Months ended June 30,	
($ in thousands)	**2026**	**2025**
Operating expenses	$23,994	$15,967
Less:		
Depreciation and amortization	1,281	1,423
Stock-based compensation	3,339	725
Non-GAAP operating expenses	$19,374	$13,819

Ambiq: Enabling AI Everywhere with SPOT