

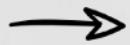


Ambiq: Enabling AI Everywhere with SPOT

July 2025



Ambiq Is Solving the AI Power Problem and Unlocking AI at the Edge



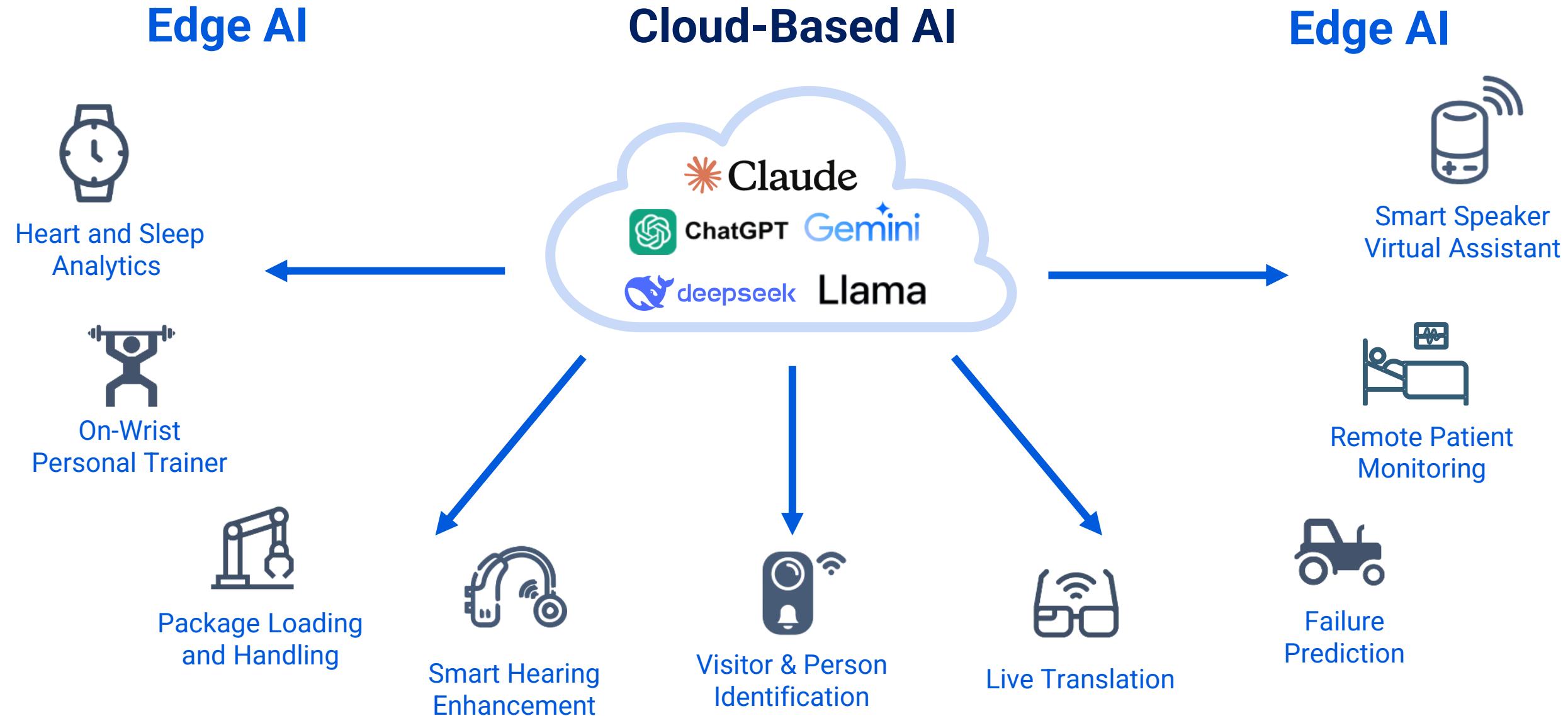
ambient + IQ



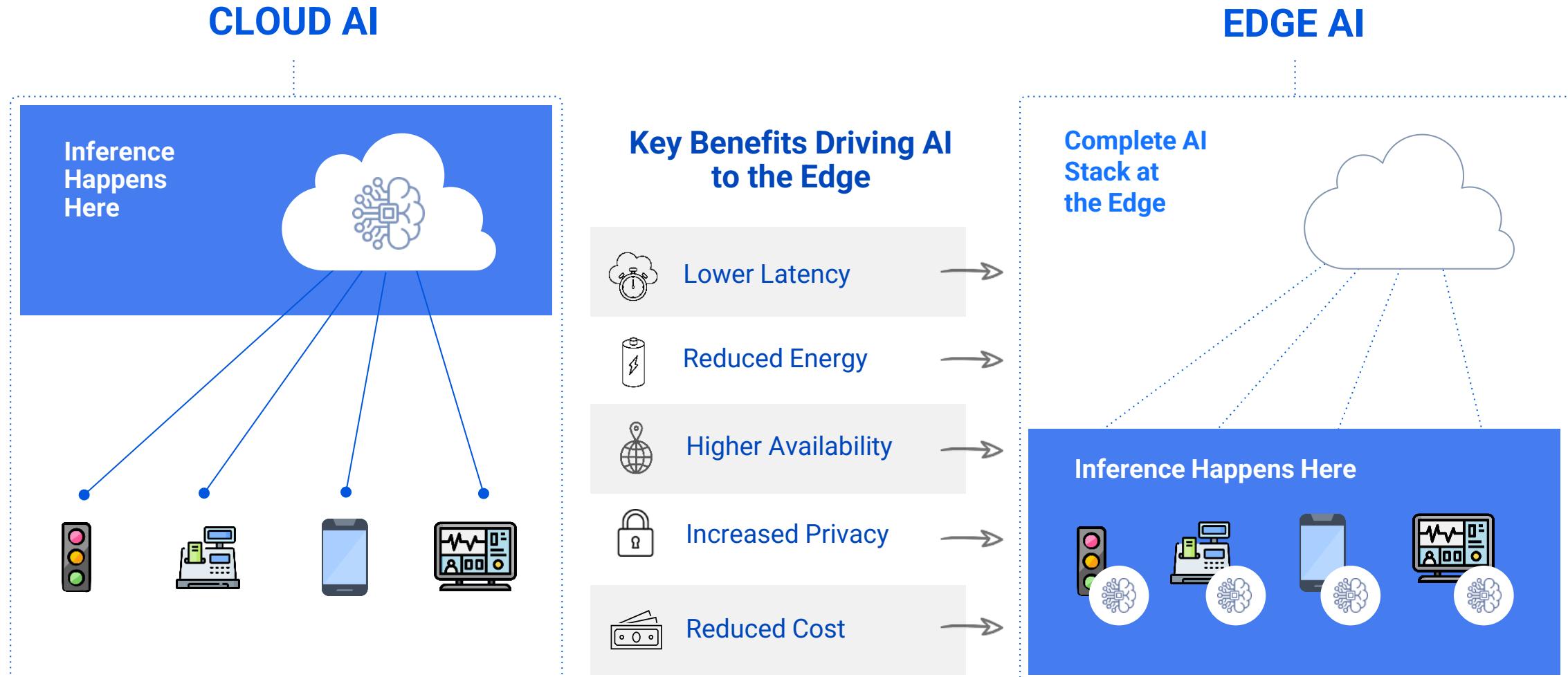
Our Mission:

To enable intelligence (AI and beyond)
everywhere by delivering
**THE LOWEST-POWER
SEMICONDUCTOR SOLUTIONS**

AI Is Changing the World...and Quickly Advancing to the Edge



Latency, Energy, Privacy, and Cost Demand That AI Move to the Edge



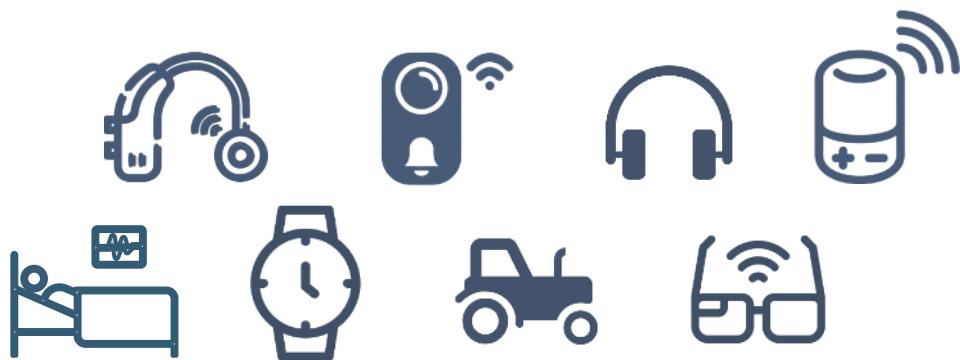
Power Is Important for AI in the Cloud but Is Existential at the Edge

*“An energy breakthrough **is necessary for future artificial intelligence**, which will consume vastly more power than people have expected”*

“OpenAI CEO Altman Says in Davos That the Future of AI Depends on an Energy Breakthrough,” Reuters, January 16, 2024



AI Power Needs
Threaten the Total Cost of
Ownership of Datacenters



AI Power Needs
Are Existential to
Edge AI



Ambiq: Enabling AI Everywhere with SPOT

Key Facts



Founded: 2010



Global HQ: Austin, TX



Other Key Locations: Japan, Poland, Singapore, Taiwan, China

Key Investors: Kleiner Perkins, EDBI, ARM, VentureTech, Conductive Ventures, Fujitsu Semiconductor Memory Solutions

Key Metrics



**190
Employees¹**



**80+
Patents
Issued and
Pending²**



**200+
Customers³**



**270M+
Units
Shipped⁴**

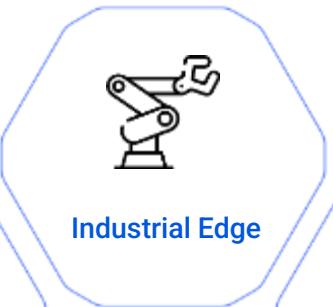
Key Market Segments



**Personal
Devices**



**Medical /
Healthcare**



Industrial Edge



**Smart Home
& Buildings**

Key Customer Wins



Smart Rings



Smart Watches



**ECG Heart Monitoring
Devices**



AR Smart Glasses



Hearing Devices



Patient Monitoring



**Smart Industrial
Sensors**



**Animal Husbandry
and Smart Farming**

Source: Company information.

1. As of 3/1/2025

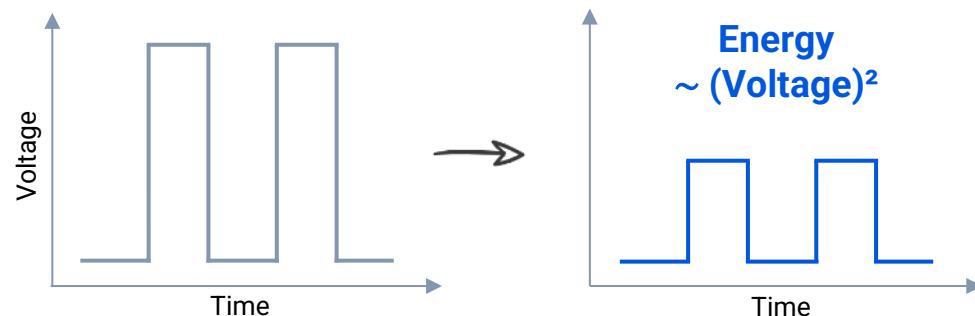
2. As of 1/31/2025

3. Since June 2010

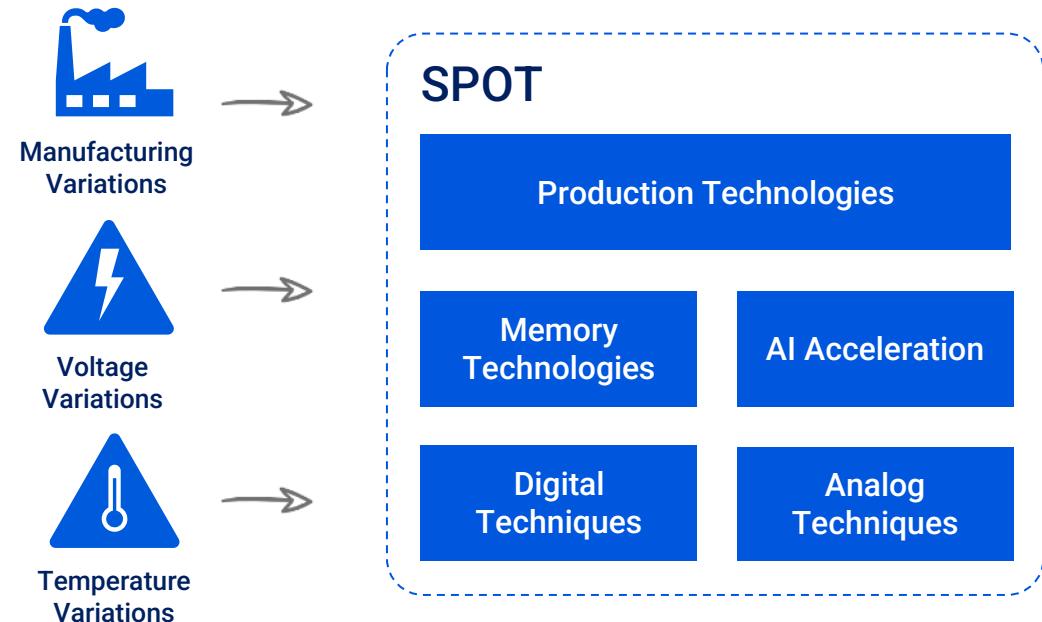
4. Since June 2010

SPOT Platform For Next-Gen Power-Efficient Edge AI

Sub-threshold Power Optimized Technology (SPOT)



SPOT Is Designed to Solve the Extreme Challenges of Sub-threshold



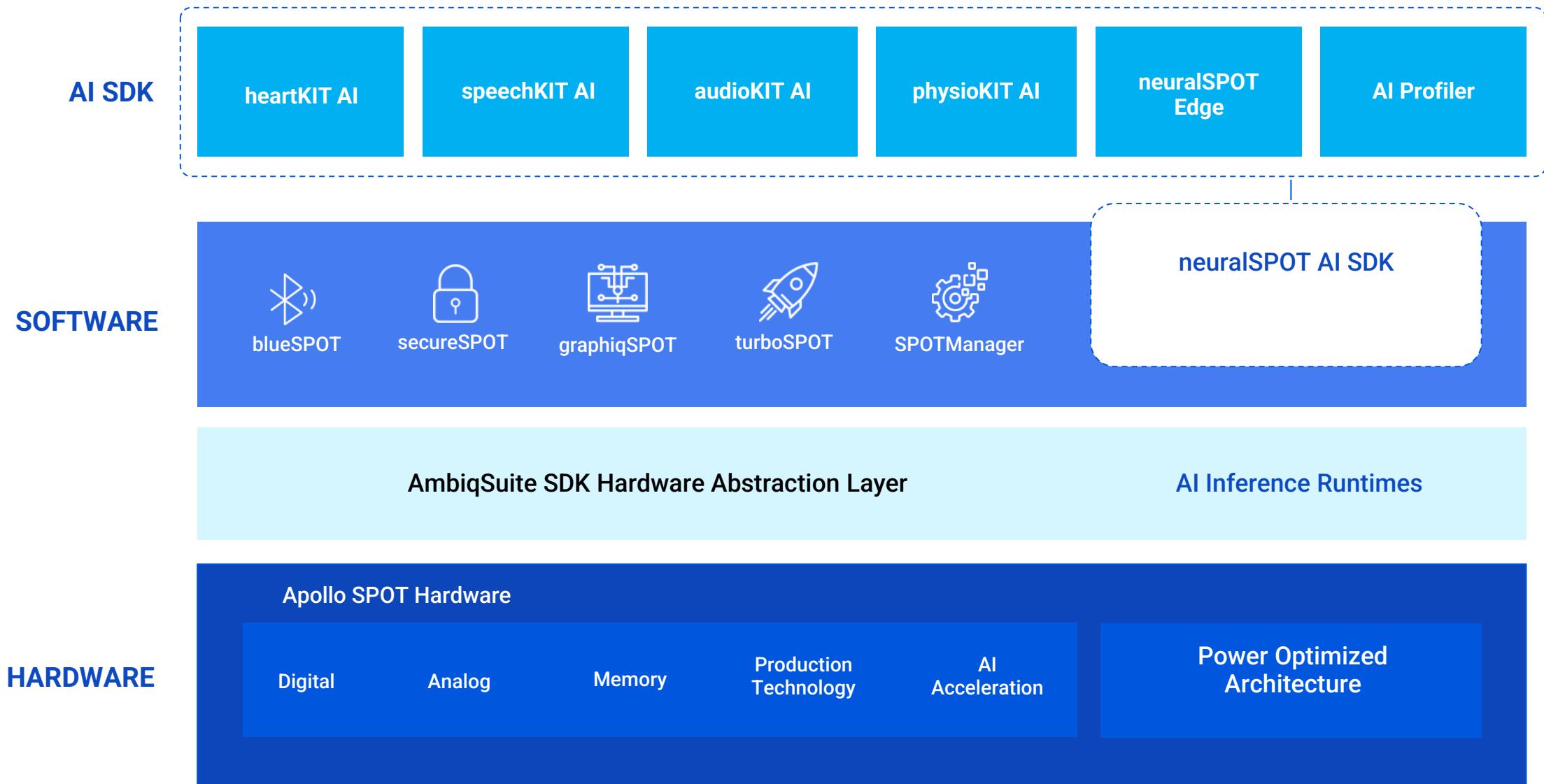
Strategic Partnerships and IP Protection



SPOT Delivers a 2-5X Power Advantage



SPOT Is the Foundation for a Full Stack Edge AI Solution



SPOT Is a Platform That Enables a Broad Range of Products and Markets



AI Usage on SPOT Is Growing Quickly (In Volume and Complexity)

Software-Based AI (2018-Now)



Customers deploying AI on Apollo3 and 4

- ✓ Improved health analytics
- ✓ Speech processing
- ✓ Voice-based UI

Vector-Accelerated AI (2024-Now)



Apollo5 customers planning/implementing AI

- ✓ AI-enhanced voice calls
- ✓ Intuitive voice-based UI
- ✓ Image analytics

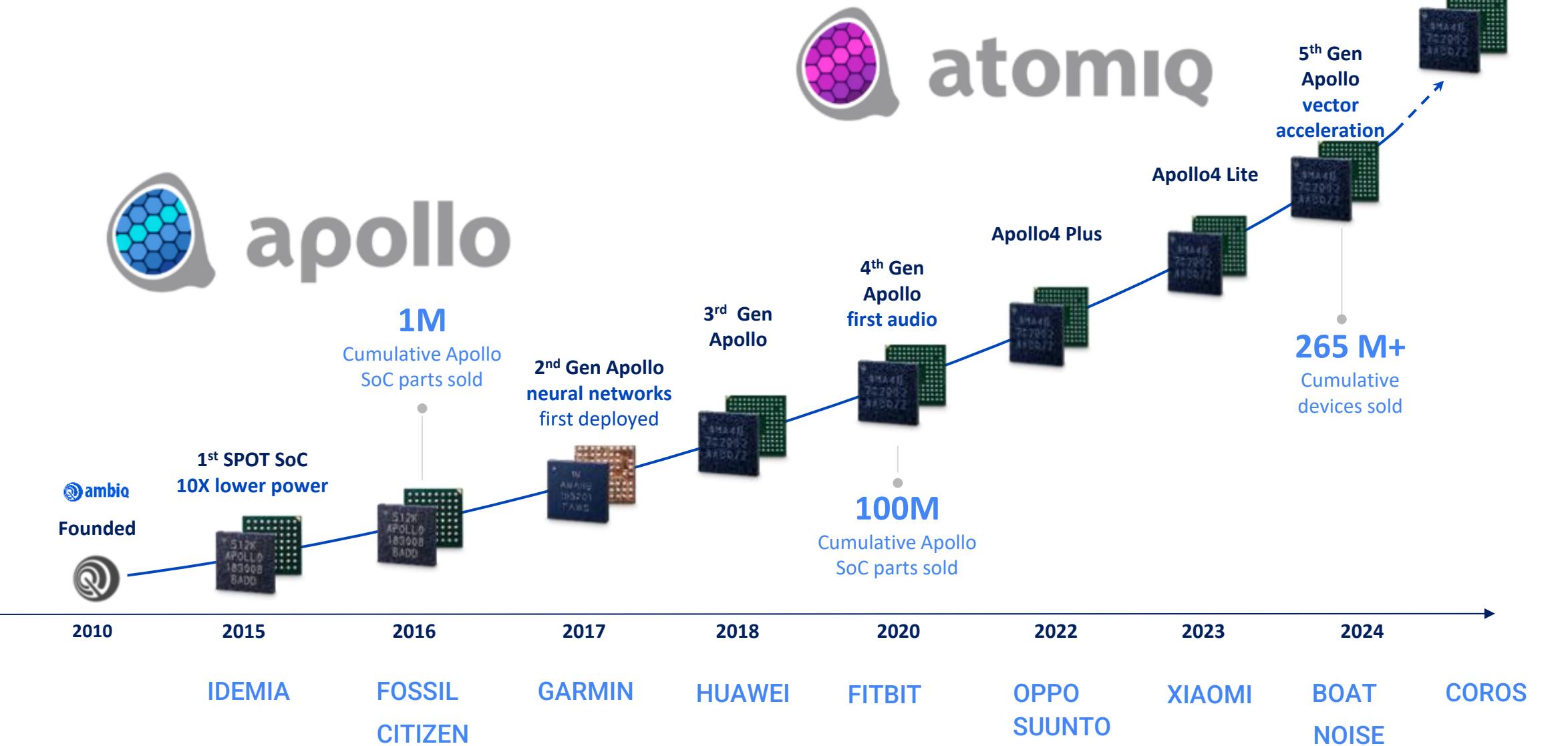
NPU-Enabled AI (Next Gen)



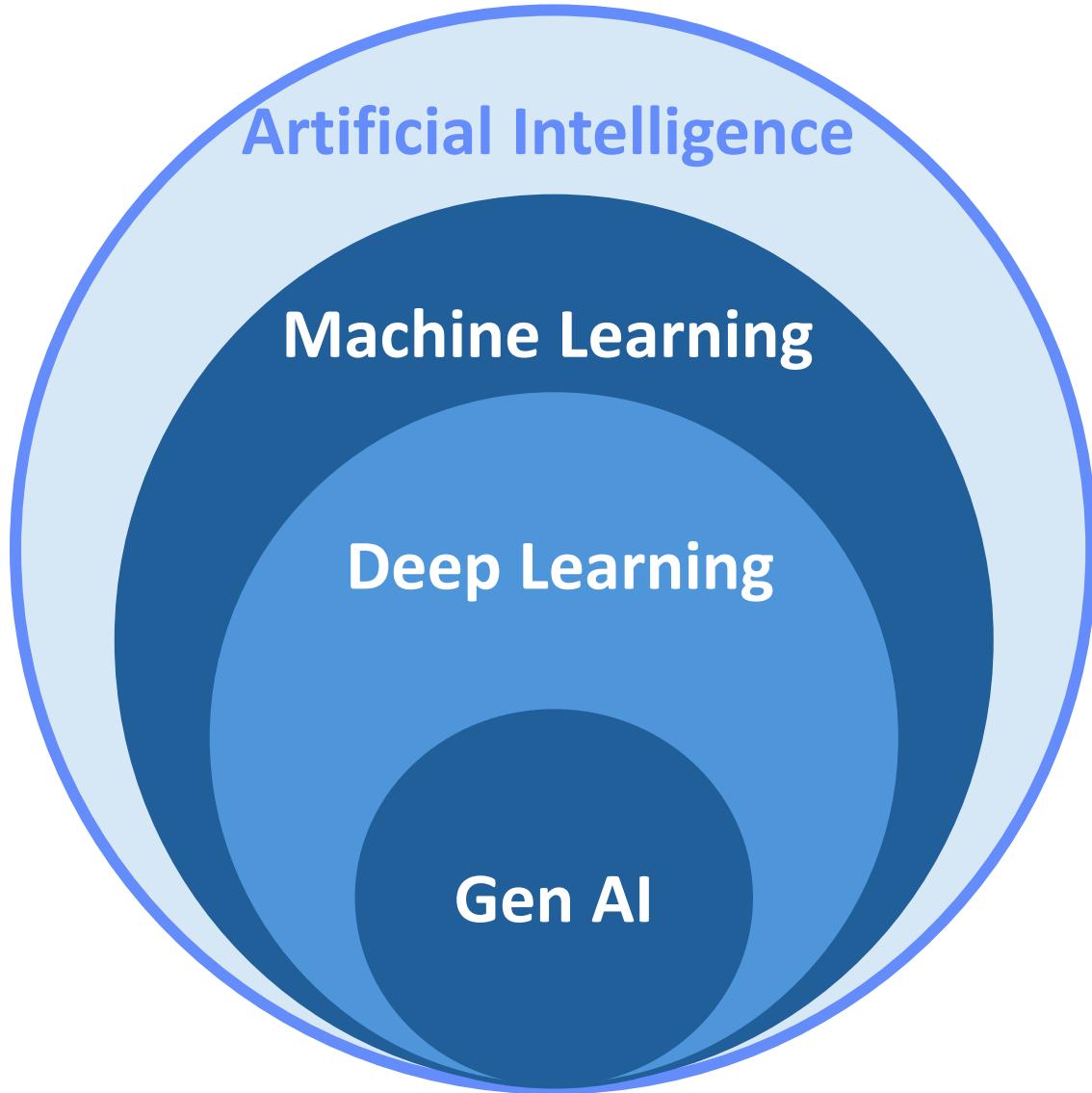
Growing new high-end use cases

- ✓ Video analytics
- ✓ Full speech recognition
- ✓ Domain-specific language models

Proven Demand From Blue-Chip End Customers



Ambiq's Edge AI Focus Is Broader Than GenAI Alone



Typical Edge AI Deployments:

- Largely use deep learning (minus gen AI)
- Have memory needs from kilobytes to gigabytes
- Have performance needs from MOPS to TOPS

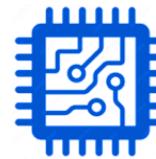
AI Classes in Edge Deployments:

- Class 1: Algorithm replacement
- Class 2: Detection, classification, and novel analysis
- Class 3: Complex intelligence
- Class 4: Advanced intelligence

Ambiq Is Poised to Be a Leader in the Exploding Edge AI Opportunity



Fast growing edge AI opportunity with existential power issue



Proprietary Sub-threshold Power Optimized Technology (SPOT) platform



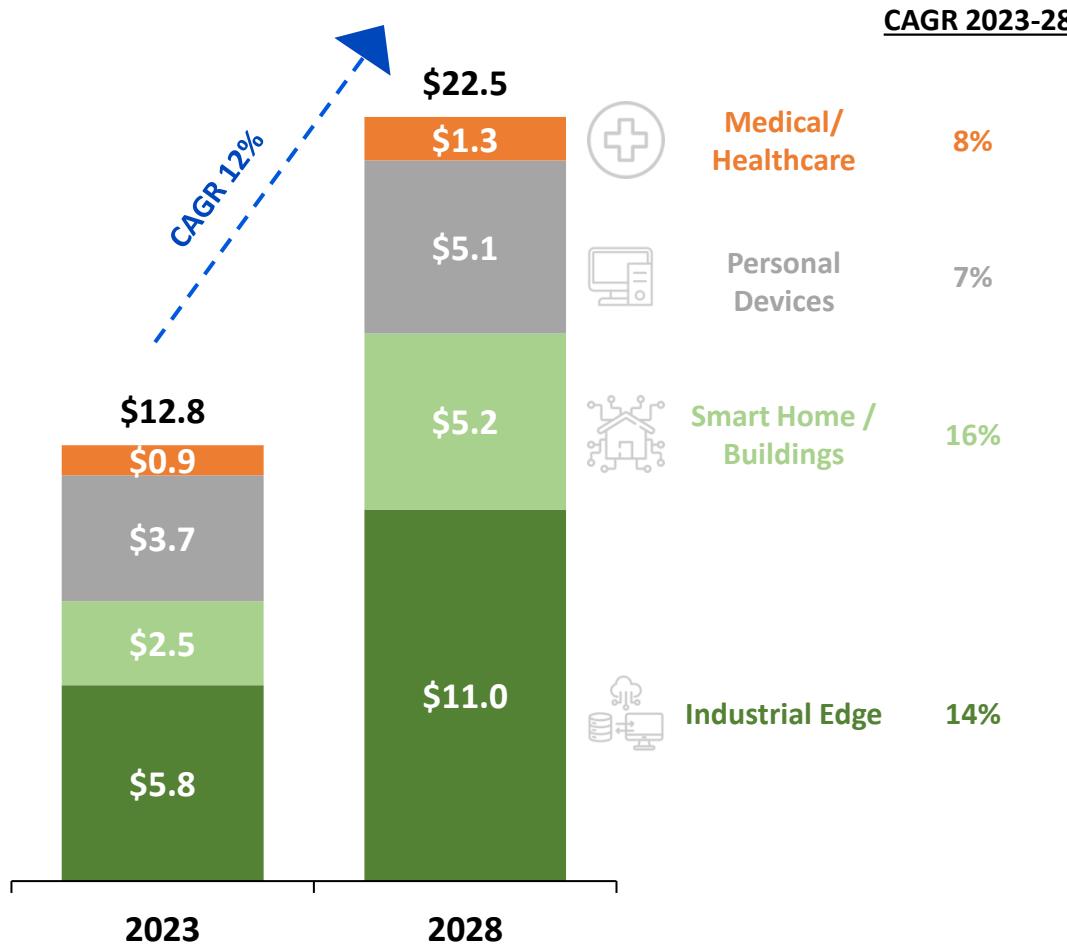
Proven demand with strong customer base growing in new segments



Scalable business model with a focus on profitable growth

Diverse \$12.8B Opportunity Growing Quickly

Projected Market Size by End Markets (\$B)



Personal Devices

- Wrist Worn
- Ear Worn
- Clothing
- AR / VR
- Other

Industrial Edge

- Animal Husbandry
- Smart Farming
- Automation
- Utilities
- Oil and Gas

Medical / Healthcare

- Pulse Oximetry
- Glucose Monitoring
- Heart Health

Smart Home & Buildings

- Security & Safety
- Energy Management
- Comfort & Lighting

Sources: Gartner®. Forecast: Semiconductors and Electronics, Worldwide, 2022-2028, 4Q24 Update, Rajeev Rajput et al., 16 December 2024 Revenue basis. The Edge End Market/End markets=Sorted by Head Mounted Displays, Wearable, Smart Watches, Wristbands, Appliances, Smart Speakers, Personal Asset Tracker, Surveillance, Other Security, Automation, Medical/Healthcare, Energy Management, Transportation, Test/Measurement, Agriculture, Personal Robots and Industrial Smart Robots. Wireless Connectivity=Wireless Connectivity (NFC; WiFi; BT; GPS; Combo), Application Processors=Discrete Application/Multimedia Processor, 32-bit MCU=Microcontroller 32-bit and Above. Personal Device Market = Sorted by Wearables. Medical and Healthcare = Medical / Healthcare. Industrial Edge Device Market = Sorted by Surveillance, Other Security, Automation, Energy Management, Transportation, Test/Measurement, Agriculture and Industrial Smart Robots. Smart Home and Smart Buildings Market = Sorted by Appliances, Smart Speakers, Personal Asset Tracker and Personal Robots. The Gartner content described herein (the Gartner Content) represents(s) research opinion or viewpoints published, as part of a syndicated subscription service, by Gartner, Inc. (Gartner), and are not representations of fact. Gartner Content speaks as of its original publication date (and not as of the date of this prospectus) and the opinions expressed in the Gartner Content are subject to change without notice.

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transphorm
NIEC
International
Rectifier
accenture



Dr. Scott Hanson

Founder, CTO



Jeff Winzeler

CFO

kandou
EVERSPIN
TECHNOLOGIES
STMicroelectronics



Sean Chen

President

mCube **intel** tsmc



Carlos Morales

VP of AI

nervana
SYSTEMS **intel** **cisco**



Dan Cermak

VP of Architecture &
Product Planning

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Jayesh Shah

VP of Software &
Solutions

ENTROPIC **MAXLINEAR** CONXANT



Dr. Raghuram Tupuri

VP of Engineering

AMD **Aricent**



Charlene Wan

VP of Corp Marketing &
Investor Relations

Western Digital **HDMI** **SANDISK**



Aaron Grassian

EVP of Global Sales &
Marketing

Motorola **Ubuntu** **Texas**



Kris Potrafka

VP of HR

AMD **cisco**

190¹
Total Employees

68%¹
Engineers

114¹
Employees in R&D

22 1. As of 3/1/2025



Board of Directors



Dr. Wen Hsieh
Chairman of the Board



McKinsey & Company



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*Board Member
CEO*



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(Kyocera)

International
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worldpay

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Enterprise

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Dr. Ker Zhang
Board Member



CROSSBAR

PTK



Ambiq: Enabling AI Everywhere with SPOT





Thank You!

Factory
Automation



Agriculture



Safety and
Security



Environmental
monitoring



Smart
glasses



Homes and
Buildings



Fitness



Healthcare



Wearables

