



NEWS RELEASE

Ambiq Apollo510 Named IoT Semiconductor Solution of the Year 2025

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AUSTIN, TX, Jan. 8, 2025 – Ambiq®, a leading developer of ultra-low-power semiconductor solutions for edge AI, has received the “IoT Semiconductor Solution of the Year” for their Apollo510 microcontroller (MCU) in the annual awards by IoT Breakthrough. The groundbreaking technology represents a significant leap in energy-efficient semiconductors, delivering an unprecedented 300x increase in inference throughput per joule compared to previous generations.

The Apollo510 MCU is Ambiq’s most advanced fifth-generation MCU, capable of processing complex neural networks and AI models across speech, vision, health, and industrial applications. Unlike traditional semiconductor solutions, the Apollo510 eliminates the need for a separate neural processing unit (NPU), providing developers with critical advantages in cost-effectiveness, design flexibility, and accelerated development cycles for faster time-to-market.

“This recognition validates our relentless pursuit of energy-efficient edge AI technologies,” says Fumihide Esaka, CEO of Ambiq. “The Apollo510 is more than a product—it’s a transformative solution that empowers our customers to create intelligent devices with unparalleled efficiency. This achievement reflects the dedication of our entire team in pushing the boundaries of semiconductor innovation.”

“The use of Ambiq’s low-power Apollo510 MCU and their SPOT platform continues to impress the IoT Breakthrough organization,” said Steve Johansson, managing director at IoT Breakthrough. “Innovative applications for AI are no longer restricted to the Cloud that typically require large servers, volumes of power, and compute performance to process that data. Thanks to solutions such as the Apollo510, we can see meaningful applications of AI everywhere,

providing edge device developers everything they need to drive intelligent systems with complex algorithms and neural networks. We're pleased to recognize Ambiq with the 'IoT Semiconductor Solution of the Year' award!"

The company's track record of innovation is evident in its previous IoT Breakthrough awards, having won "IoT Semiconductor Company of the Year" in 2021, 2023, and 2024. A recent real-world application includes **powering an over-the-counter (OTC) hearing aid** with advanced speech-enhanced AI technology. To learn more about Ambiq's next generation semiconductor solution, **visit the Apollo510 MCU product page**.

About IoT Breakthrough

Part of the **Tech Breakthrough**, a leading market intelligence and recognition platform for global technology innovation and leadership, the IoT Breakthrough Awards program is devoted to honoring excellence in Internet-of-Things technologies, services, companies and products. The IoT Breakthrough Awards program provides a forum for public recognition around the achievements of IoT companies and products in categories including Connected Home and Home Automation, Connected Car, Industrial IoT (IIoT) and Smart City, Consumer IoT and more. For more information visit www.IoTBreakthrough.com.

About Ambiq

Ambiq's mission is to develop the lowest-power semiconductor solutions to enable intelligent devices everywhere and drive a more energy-efficient, sustainable, and data-driven world. Ambiq has helped leading manufacturers worldwide create products that last weeks on a single charge (rather than days) while delivering a maximum feature set in compact industrial designs. Ambiq's goal is to take Artificial Intelligence (AI) where it has never gone before in mobile and portable devices, using Ambiq's advanced ultra-low power system on chip (SoC) solutions. Ambiq has shipped more than 270 million units. For more information, visit www.ambiq.com.

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