



NEWS RELEASE

Ambiq Wins Embedded World 2026 Award for heliaAOT™

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AWARD VALIDATES AMBIQ'S
EXPANDING HARDWARE-
SOFTWARE PLATFORM STRATEGY
IN THE RAPIDLY GROWING EDGE AI
MARKET

AUSTIN, Texas, March 11, 2026—Ambiq Micro, Inc. ("Ambiq®"), a technology leader in ultra-low power semiconductor solutions for edge AI, today announced it has won the 2026 Embedded World Award in the Best Tools category for heliaAOT™, its ahead-of-time AI compiler purpose-built for Ambiq's ultra-low power SoCs. heliaAOT was also nominated in the Best AI category. This marks the third consecutive year Ambiq has received a prestigious Embedded World Award, underscoring the company's sustained industry leadership.

As AI workloads rapidly migrate from cloud to edge devices, developers face mounting constraints in power, memory, and compute. Introduced in July 2025, heliaAOT addresses this challenge by converting TensorFlow Lite models directly into highly optimized embedded C code — eliminating runtime overhead and enabling breakthrough efficiency on battery-powered devices.

Key advantages include:

- 10x reduction in memory footprint versus traditional runtime-based deployments



- Granular, per-layer weight distribution, control across Apollo’s memory hierarchy
- Deterministic, automated memory planning that eliminates over-allocation
- Streamlined deployment with direct integration of generated C code into embedded applications
- Seamless support through Zephyr RTOS and Ambiq neuralSPOT® AI SDK

“We are deeply honored by the recognition from Embedded World 2026,” said Dr. Adam Page, Head of Artificial Intelligence at Ambiq. “helioAOT is a strategic investment in the future of edge AI—addressing extreme resource constraints while meeting the rising demand for agentic, always-on intelligence. Together with our SPOT platform, helioAOT delivers a powerful hardware-software advantage with orders-of-magnitude energy efficiency and seamless deployment.”

Additional information and benchmarks for helioAOT are **available here**.

About Ambiq

Headquartered in Austin, Texas, Ambiq’s mission is to enable intelligence (artificial intelligence (AI) and beyond) everywhere by delivering the lowest power semiconductor solutions. Ambiq enables its customers to deliver AI compute at the edge where power consumption challenges are the most severe. Ambiq’s technology innovations, built on the patented and proprietary subthreshold power optimized technology (SPOT®), fundamentally deliver a multi-fold improvement in power consumption over traditional semiconductor designs. Ambiq has powered over 290 million devices to date. For more information, visit www.ambiq.com.

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