



NEWS RELEASE

# Ambiq Launches soundKIT to Accelerate Always-On, On-Device Audio AI for the Edge

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OPEN-SOURCE AUDIO AI  
DEVELOPMENT KIT ENABLES  
MANUFACTURERS TO BRING REAL-  
TIME VOICE INTELLIGENCE TO  
ULTRA-LOW-POWER DEVICES—  
WITHOUT THE CLOUD

Ambiq Launches soundKIT to Accelerate Always-On, On-Device Audio AI for the Edge 2

AUSTIN, TX February 17, 2026 – Ambiq Micro, Inc. (“Ambiq®”) — Ambiq, a leader in ultra-low-power semiconductor solutions, today announced soundKIT, its fourth open-source AI Development Kit (ADK), designed to accelerate the adoption of always-on, real-time, on-device audio and speech intelligence for power-constrained edge devices.

Built for Ambiq’s ultra-low-power system-on-chips (SoCs), soundKIT enables device manufacturers and AI teams to design, validate, and deploy production-ready audio AI functions—including voice activity detection, keyword spotting, speech enhancement, and speaker identification—while meeting the strict power, latency, and reliability requirements of embedded systems.

“Always-on audio is quickly becoming a defining capability for edge devices, but power, latency, and cloud dependence have held manufacturers back,” said Scott Hanson, CTO of Ambiq. “soundKIT removes those barriers by giving teams a direct path from experimentation to deployment on ultra-low-power hardware, accelerating



adoption of on-device audio AI at scale.”

Designed for end-to-end commercial development, soundKIT provides a modular, open-source framework—beyond a traditional “model zoo”—spanning data preparation, training, evaluation, export, and real-time demonstration. Teams can prototype on PC and validate on Ambiq evaluation boards using identical configurations, enabling earlier, hardware-aware decisions and reducing development risk.

soundKIT supports a wide range of high-growth edge applications, including smart homes and wearable devices, automotive in-cabin systems, industrial monitoring, healthcare and assistive technologies, security, and consumer audio products—where low latency, long battery life, and reliable offline operation are essential.

The kit features configurable pipelines for common embedded audio AI tasks like speech enhancement, voice activity detection, keyword spotting, and speaker identification, along with real-time demos on both PC and Ambiq hardware platforms. soundKIT uses a flexible, license-respecting bring-your-own-data approach and seamlessly integrates with Ambiq’s ultra-low-power SoCs.

#### Availability

soundKIT is available now as open source:

- GitHub: <https://github.com/AmbiqAI/soundkit>
- Documentation: <https://ambiqai.github.io/soundkit/>

Additional details for soundKIT can be found [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.

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