

Silicon Labs Expands AI Developer Platform to Simplify IoT Development and Scale Edge Intelligence

Simplicity AI SDK with new Simplicity Design Intelligence, open-source development, and Databricks initiatives help developers build faster and bring edge AI into enterprise workflows

AUSTIN, Texas, Oct. 7, 2026 /[PRNewswire](#)/ -- **Works With Summit 2026** – Silicon Labs (NASDAQ: SLAB), the leading innovator in low-power wireless connectivity, today announced a set of developer initiatives that makes it easier to build, extend, and operate increasingly capable IoT devices. Unveiled at the company's seventh annual Works With Summit, the new offerings expand what developers and their AI agents can create on the Silicon Labs platform, while helping customers develop, deploy, and manage intelligence at the edge.

News at a Glance

- **Design with AI:** The Simplicity AI SDK is now in public Beta and supports AI coding assistants including GitHub Copilot, Cursor, and Codex. Silicon Labs is also introducing Simplicity Design Intelligence, a broad and growing set of capabilities designed to understand hardware and software intent, help customers turn that intent into a working product, and verify the implementation against the original intent. Hardware Intent is the first capability.
- **Build and extend:** The Silicon Labs open-source community is launching in Beta with Bluetooth® Low Energy (LE), giving developers access to sample applications and tooling and a direct way to raise issues, propose fixes, contribute code, and extend the Silicon Labs software platform.
- **Scale edge intelligence:** Silicon Labs' platform-agnostic edge AI and machine learning tools can now connect with [Databricks](#), the data and AI company, so customers can manage data, models, embedded optimization, and hardware test results with governed enterprise data and AI workflows on the Databricks Data + AI platform.

Development Complexity Cannot Scale with IoT

As connected products add intelligence and custom hardware, building them grows more complex. Developers navigate specialized SDKs, configuration tools, debugging environments, and hardware constraints while using general-purpose AI assistants that do not inherently understand Silicon Labs devices or embedded workflows. Development teams also need better ways to share improvements and manage AI models as intelligence moves from the cloud onto edge devices. If workflows become harder with every new capability, development complexity becomes a barrier to scaling IoT.

"More capable silicon should not create more development complexity," said Manish Kothari, Senior Vice President of Software at Silicon Labs. "We are giving developers and their AI agents a connected path from hardware and software intent through implementation, community contribution, and the complete AI lifecycle."

Simplicity AI SDK and Simplicity Design Intelligence Connect Intent to Product

Simplicity AI SDK has entered public Beta, giving developers and their AI coding assistants structured access to Silicon Labs SDKs, tools, documentation, and connected hardware. Rather than requiring a proprietary AI assistant, the SDK works with tools developers may already use. GitHub Copilot, Cursor, and Codex are supported in the Beta. This grounding gives general-purpose AI assistants Silicon Labs-specific context. The first officially supported experience focuses on Bluetooth® Low Energy (LE), with workflows spanning project creation and configuration, building, flashing, debugging, network and power analysis, documentation search, and hardware interaction.

Simplicity Design Intelligence extends that foundation. It is a broad and growing set of Silicon Labs capabilities designed to understand hardware and software intent, help customers realize that intent in a working product, and verify the implementation against the original intent. Hardware Intent is the first capability. It uses product requirements, board schematics, and other input hardware documentation from datasheets to meeting notes to guide pin, peripheral, and software configuration, then compares the result with the original intent. This can find pin conflicts, peripheral mismatches, and missing constraints before fabrication and help reduce avoidable board respins.

"We've been working closely with Silicon Labs as an Alpha customer, evaluating how the Hardware Intent Agent can streamline hardware development across our current and future products while providing feedback on new features as it progresses towards general release," said Limor Alkelai, Co-CEO, at Risco Group. "We see its potential in enabling quicker and more robust development."

Collaborate, Build, and Extend Through the Open-Source Community

Drawing on its experience advancing open-source development for Matter, Thread, and Zephyr, Silicon Labs is launching its open-source developer community in Beta, beginning with Bluetooth LE. The mantra is simple: build and extend. Developers can build with Silicon Labs sample applications and tooling, then extend the platform by raising issues, suggesting fixes, and contributing through pull requests.

Accepted contributions can move through the company's normal engineering and testing processes into future SDK releases. Even before acceptance, proposed fixes and discussions can remain visible to other developers, giving the community another way to share knowledge and solve common problems. The Silicon Labs applications team will support issues raised on GitHub, and Silicon Labs plans to expand this approach to additional wireless technologies over time.

Scale the Complete Edge AI Lifecycle with Databricks

As edge AI grows, model development also needs to connect with the data and AI infrastructure enterprises already use. Silicon Labs is partnering with Databricks to bring embedded edge AI into Databricks, creating a unified, governed foundation for connecting edge devices with enterprise data, AI, and machine learning workflows.

An initial Silicon Labs MLOps SDK experience connects devices with Databricks to help capture data from the device fleet. Once the data is in Databricks, all the familiar MLOps tools and training pipelines and GPU resources are available directly for training. Once a model is trained, the Silicon Labs ML Profiler can provide directionally accurate feedback on whether a model fits target hardware and its memory and CPU requirements. That feedback can help ML engineers iterate while remaining in a familiar Databricks environment, connecting model development with the enterprise data and governance that underpin production AI. This approach helps enterprises extend AI from the cloud to the edge without creating separate data and AI stacks for embedded workloads.

A Platform that Developers Can Build and Extend

Together, these initiatives scale the development system at three levels:

- The Simplicity AI SDK and Simplicity Design Intelligence help developers and their AI agents move from hardware and software intent to a working product, with Hardware Intent as the first of a growing set of Design Intelligence capabilities.
- The open-source community gives developers a direct way to build and extend the platform.
- Silicon Labs edge AI tools and Databricks connect embedded AI development with enterprise data and AI governance. Silicon Labs intends to make increasingly capable silicon easier to use and earn the position of platform of choice for embedded wireless development.

Availability and Next Steps

The Simplicity AI SDK Beta is publicly available, with official support initially focused on Bluetooth LE and support for GitHub Copilot and Codex. An alpha release of Hardware Intent, the first capability in Simplicity Design Intelligence, is planned for January 2027.

The Silicon Labs open-source community Beta launches with Bluetooth LE, and its sample applications are accessible on GitHub for code review and contributions.

Initial Silicon Labs MLOps tools are available in Databricks today.

About Silicon Labs

Silicon Labs (NASDAQ: SLAB) is the leading innovator in low-power connectivity, building embedded technology that connects devices and improves lives. Merging cutting-edge technology into the world's most highly integrated SoCs, Silicon Labs provides device makers with the solutions, support, and ecosystems needed to create advanced edge connectivity applications. Headquartered in Austin, Texas, Silicon Labs has operations in over sixteen countries and is the trusted partner for innovative solutions in smart home, industrial IoT, and smart cities markets. Learn more at <https://www.silabs.com>.

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For further information: For more information: Sam Ponedal, Head of PR, Silicon Labs: pr@silabs.com

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