Silicon Labs Simplifies IoT Development with Simplicity Studio 5

-- Simplicity Studio 5 Features Multiprotocol Support, Faster Performance, New Interface, Supports Secure Vault --

AUSTIN, Texas, Sept. 9, 2020 /PRNewswire/ -- Silicon Labs (NASDAQ: SLAB), a leading provider of silicon, software, and solutions for a smarter, more connected world, has delivered a major upgrade to its Integrated Developer Environment (IDE) with the launch of Simplicity Studio 5. The latest version of Simplicity Studio now offers the same access and developer experience across a wide range of wireless protocols, all within a central web-style user interface.

Silicon Labs engineered the latest release of this all-in-one software suite to simplify the development of wireless System-on-Chips (SoCs) and modules, microcontrollers, and other embedded products for IoT devices. Simplicity Studio 5 also provides IoT device developers with the same access, security configuration, and code portability across IoT SoCs and modules, significantly reducing device development time.

"IoT developers face a wide-range of technical challenges, including optimizing for performance, power, size, multiprotocol coexistence, and security," said Matt Johnson, senior vice president of IoT at Silicon Labs. "They also face business pressures including timelines, certifications, and code reuse. Simplicity Studio 5 is a free, state-of-the-art development platform that addresses these pain points and makes the creation of smart home, commercial, consumer, and industrial applications faster and easier than ever. It is a unification point for all of Silicon Labs' wireless technologies, and helps developers easily create sophisticated, flexible, multiprotocol products with OpenThread and Bluetooth Dynamic Multiprotocol technologies without having to know every implementation detail."

Leveraging feedback from customers, employees, and developers, Silicon Labs reengineered the Simplicity Studio platform to address IoT developer pain points and help users of all experience levels get started with fast resource accessibility and the ability to quickly develop, prototype, and deploy connected devices. Simplicity Studio 5 features a modern user interface, optimized workflows, improved performance, and debug and analysis capability to help developers get wireless solutions to market faster.

Simplicity Studio 5 is also designed to intelligently recognize all evaluation and development kits released by Silicon Labs and then make appropriate SDKs, tools, and development resources readily available to the user.

Simplicity Studio 5 Highlights

- **Scalable:** one tool and one environment featuring multiple protocols; support for additional protocols will be continuously added. This includes support for OpenThread, making it simpler to develop IPv6 based mesh applications and paving the way for future development of Project Connected Home over IP-based devices running on Silicon Labs' EFR32 Wireless Gecko.
- **Responsive User Interface (UI)**: completely new web-like user interface.
- **Modern Platform:** based on latest versions of the C/C++ development tooling and the open source Eclipse platform, enabling use of Eclipse Marketplace plug-ins.
- **Core Improvements:** improved performance and industry-standard code editors, compilers, and debuggers.
- **Network Analyzer:** simplifies development of mesh network solutions by collating results across the network.
- **Project Configuration:** new project tools enabled through software component-based SDKs add enhanced levels of software component discoverability, configurability, and dependency management that surpasses competitor tools.
- **Power Profiler:** analyzes full power consumption in a device to optimize design and extend battery life.
- **Advanced Security:** enables state-of-the-art Secure Vault features to help future-proof IoT devices against escalating threats and regulatory requirements.

- **Automatic Board Detection:** automatically locates device-specific technical documentation and software examples once board is connected.
- **Value-add Tools:** code-correlated energy profiling, wireless network analysis, and improved debugging to speed time to market of advanced applications.

Silicon Labs officially launched Simplicity Studio 5 during its Works With virtual smart home developer conference, the industry's first gathering of the people, platforms, and protocols driving the growing smart home industry forward. Works With takes place September 9 – 10, 2020, with on-demand replays available to registrants. Registrations is free and available at silabs.workswith.com.

Visit the Simplicity Studio 5 Software Center for more information and to download the Windows, Mac or Linux installers.

Silicon Labs

Silicon Labs (NASDAQ: SLAB) is a leading provider of silicon, software and solutions for a smarter, more connected world. Our award-winning technologies are shaping the future of the Internet of Things, Internet infrastructure, industrial automation, consumer and automotive markets. Our world-class engineering team creates products focused on performance, energy savings, connectivity and simplicity. silabs.com

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