Silicon Labs Newsroom

Silicon Labs' FG23L Wireless SoC Now Generally Available, Offering Best Price/Performance for Sub-GHz IoT

AUSTIN, Texas, Sept. 10, 2025 /PRNewswire/ -- Silicon Labs (NASDAQ: SLAB), the leading innovator in low-power wireless, today announced that the FG23L wireless SoC, the newest addition to its Series 2 portfolio, will be generally available on September 30. Developer kits are available now. The FG23L brings Silicon Labs' Sub-GHz leadership to a new level, delivering secure long-range connectivity at a fraction of the cost. By balancing essential performance with unmatched affordability, it opens Sub-GHz IoT to broader markets and higher-volume applications.

"The FG23L extends Silicon Labs' proven Sub-GHz leadership into the high-volume, cost-sensitive segment of the market," said Ross Sabolcik, Senior Vice President of IoT Products at Silicon Labs. "By delivering the best-in-class combination of range, efficiency, and security at the industry's most competitive price-performance, we're enabling customers to bring more connected devices to market faster and at lower cost than ever before."

Extending Silicon Labs' Leadership in Sub-GHz IoT Connectivity
As demand grows for long-range, cost-optimized wireless IoT solutions in industrial automation, smart cities, and building automation, the FG23L is purpose-built to help customers meet these needs with higher performance and lower system cost. Where competitive offerings often force tradeoffs between range, security, or efficiency, the FG23L delivers on all three.

With a best-in-class link budget of ~146 dB, the FG23L provides up to twice the range of comparable devices. Its combination of +20 dBm transmit power, high receiver sensitivity, and ultra-low power consumption enables reliable connectivity and over 10 years of battery life—critical for large-scale IoT deployments where device longevity and total cost of ownership matter most.

Delivering the Industry's Best Value for Secure, Long-Range IoT
The FG23L integrates a 78 MHz Cortex-M33 core, dual-core wireless architecture, and Secure Vault™ Mid security to deliver advanced compute performance, robust connectivity, and protection against evolving security threats. Developers benefit from a rich peripheral set, 23 GPIOs, and streamlined design tools, including Simplicity Studio 5 and the Radio Configurator, which accelerate development and reduce complexity across global Sub-GHz bands.

This unique combination of performance, energy efficiency, and affordability gives customers the ability to scale IoT deployments faster and more cost-effectively. From industrial sensors, building automation, and smart city infrastructure to agricultural IoT and electronic shelf labels (ESLs), the FG23L empowers manufacturers to design connected products that compete more effectively in cost-sensitive markets.

Developers also have a seamless migration path from FG23L to FG23 and other Sub-GHz parts from Silicon Labs in case they are looking for more memory, more features, higher performance, or lower power.

FG23L Developer Kits Available Now, Full Availability on September 30
The EFR32FG23L wireless SoCs will be generally available on September 30, and supporting development kits are now available worldwide through Silicon Labs' distribution partners and www.silabs.com.

Read "Introducing the Ultra-Low Power IoT-Optimized FG23L Sub-GHz SoC" on the Silicon Labs blog to learn more about how the FG23L reinforces Silicon Labs' commitment to delivering secure, intelligent wireless technology that empowers innovators to build a more connected world.

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 16 countries and is the trusted partner for innovative solutions in smart home, industrial IoT, and smart cities markets. Learn more at silabs.com.

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