Silicon Labs' Z-Wave 800 Series Now Available; SoCs and Modules Lead Industry in Long Range, Energy Efficiency and Security

– New ZG23 SoCs and ZGM230S Modules are Z-Wave 800-enabled and Offer 1.5+ Mile Range, 50% Power Consumption Reduction and PSA Level 3 Security –

AUSTIN, Texas, Dec. 15, 2021 – Silicon Labs (NASDAQ: SLAB), a leader in secure, intelligent wireless technology for a more connected world, today announced that Z-Wave 800 system-on-chips (SoCs) and modules are now available for the Z-Wave smart home and automation ecosystem. Expanding the company's award-winning Series 2 platform, the EFR32ZG23 (ZG23) SoCs and ZGM230S modules provide developers with sub-GHz connectivity for Z-Wave Mesh and Z-Wave Long Range, and are ideal for smart home, multi-dwelling units (MDU), hospitality and lighting applications, supporting both end devices and gateways. The Z-Wave 800 Series family is the industry's most secure, ultra-low-power wireless solution for advanced, high-performance battery-powered Internet of Things (IoT) devices, also touting over 50% improvement in battery life compared to the Z-Wave 700 series.

"This new evolution of Silicon Labs' Series 2 Platform provides industry leading security, ultra-low power consumption with fast wakeup times, and an integrated power amplifier to enable the next generation of high-performing and secure connectivity for IoT devices," said Jake Alamat, vice president and general manager, IoT Home & Life. "Additionally, the introduction of our Unify SDK Z-Wave protocol controller will make it easier for developers to futureproof their smart home product designs for multiple protocols, including Matter. Ultimately, the Z-Wave 800 family will help consumers better their homes with longer-lasting devices that require less power consumption – all without sacrificing quality."

Low Power, Long Range and Secure

Silicon Labs' ZG23 allows for Z-Wave long-range and mesh networking, using ultra-low-power capabilities with the most secure components available in the market. The single-die ZG23 comes with a 78 MHz ARM Cortex-M33 and offers an optimized combination of ultra-low transmit and receive radio power [25.4 mA TX @ +14 dBm, 4.0 mA RX (915 MHz, 100 kbps)] and best-in-class RF performance (+20 dBm output power and -110 dBm RX at 915 MHz, 100 kbps O-QPSK), which makes it possible for IoT end nodes to achieve 1.5+ mile wireless range.

ZGM230S modules simplify development and leverage the ultra-low power and RF performance of ZG23, while providing the smallest footprint in the industry at 6.5mm x 6.5mm for Z-Wave modules. These unique solutions provide up to 10 years of battery file while operating on a coin cell battery.

Both solutions also support Z-Wave 800 standard S2 security capabilities and Silicon Labs Secure Vault™ suite, enabling the world's first wireless SoCs and modules with the industry's highest level of security: PSA Certification Level 3.

Simplified and Faster Development with Unify Software Development Kit (SDK)

The Silicon Labs Unify SDK protocol controller offers ready-made protocol-specific translations for Z-Wave with its "design once, support all" capability. Unify SDK simplifies and speeds development by providing a common, well-defined data model API and status definitions for commonly used IoT services, such as adding, updating and removing a device. Silicon Labs will be showcasing a Z-Wave to Matter bridge solution with Unify SDK at the Consumer Electronics Show (CES) 2022.

Pricing and Availability

EFR32ZG23 SoCs (5 mm x 5 mm QFN40 and 6 mm x 6 mm QFN48 packages), ZGM230S modules and accompanying kits (xG23/ZGM230 Radio Boards and the Z-Wave 800 Pro Kit) are shipping today. For more information, visit silabs.com/xg23.

About Silicon Labs

Silicon Labs (NASDAQ: SLAB) is a leader in secure, intelligent wireless technology for a more connected world. Our integrated hardware and software platform, intuitive development tools, unmatched ecosystem and robust support make us an ideal long-term partner in building advanced industrial, commercial, home and life applications. We make it easy for developers to solve complex wireless challenges throughout the product lifecycle and get to market quickly with innovative solutions that transform industries, grow economies, and improve lives. Silabs.com

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