

Silicon Labs and CEL Partner on High-Performance, Low-Power Wireless Mesh Networking Solution

Si10xx Wireless MCUs Power CEL's First Sub-GHz MeshConnect™ Modules for Long-Range RF Connectivity in Non-Line-of-Sight Applications

AUSTIN, Texas & SANTA CLARA, Calif.--(BUSINESS WIRE)-- [Silicon Laboratories](#) Inc. (NASDAQ: SLAB), a leader in high-performance, analog-intensive, mixed-signal ICs, today announced that it is providing the enabling wireless microcontroller (MCU) technology for a new line of sub-GHz wireless mesh networking modules from [California Eastern Laboratories](#) (CEL). Powered by Silicon Labs' [Si10xx wireless MCUs](#), the MeshConnect Sub-G modules are CEL's first module series optimized for wireless applications in the sub-GHz ISM band including smart meters, home automation, security systems, remote keyless entry, irrigation control and weather stations.

Designed for dense operating environments, the MeshConnect Sub-G modules deliver superior RF range and performance. The 868 MHz and 902-928 MHz frequency ranges provide robust transmission for non-line-of-sight applications. The modules can achieve a link budget up to 140 dB with a sensitivity of up to -121 dBm. Higher link budgets enhance wireless system performance in challenging operating environments.

The highly integrated, single-chip Si10xx wireless MCUs provide industry-leading low power consumption, enabling extended battery life for wireless systems based on MeshConnect modules that require battery backup or fully portable operation. The wireless MCUs also enable the modules to deliver ultra-low RF power consumption.

The MeshConnect Sub-G modules support multiple software platforms, ensuring compliance with leading US and European operating standards. These software platforms include Synapse SNAP embedded firmware, wireless M-Bus, Silicon Labs' EZMac software and CEL's proprietary application programming interface (API). The modules also provide a 1 MB flash memory option to support over the air (OTA) programming, giving system manufacturers and users the flexibility to perform software updates and system optimizations quickly and easily.

CEL's wireless modules provide pre-certified hardware/software solutions that accelerate time to market and reduce system cost and design risk. Pre-certified solutions can reduce development time by months and eliminate the costly certification process. To further speed time to market, CEL offers developers the MeshConnect Sub-G Development Kit, which enables rapid prototyping in days rather than months.

"Silicon Labs provides the industry's most integrated, robust, reliable and power-efficient sub-GHz wireless MCU solutions," said Rich Howell, director of business development at CEL. "Silicon Labs' Si10xx family provides the optimal transceiver/MCU platform for our MeshConnect Sub-G modules. By collaborating with Silicon Labs, we are able to deliver CEL's first modules in the sub-GHz frequency range to support longer range wireless communications."

A member of Silicon Labs' Wireless Partner Program, CEL provides a comprehensive line of MeshConnect solutions including modules, ICs and software packages for use in mesh, point-to-point and point-to-multipoint systems.

"RF design is part engineering and part art, and CEL excels at integrating best-in-class semiconductor and software elements into market-ready wireless modules," said Mark Thompson, vice president of Embedded Mixed-Signal products at Silicon Labs. "CEL's MeshConnect Sub-G modules leverage our Si10xx wireless MCUs to deliver highly integrated, pre-certified solutions for the rapidly growing wireless mesh networking market."

Pricing and Availability

The MeshConnect Sub-G modules (part numbers ZICM0868P0 and ZICM0900P2) are sampling now. Mass production is planned for Q2 2011. Module pricing is less than \$19 USD in thousand-piece quantities.

For more information about the MeshConnect Sub-G modules and development kit or to order samples, visit www.cel.com. For more information about Silicon Labs' Si10xx wireless MCU family or to purchase samples and development tools, visit www.silabs.com/pr/wirelessmcu.

About CEL

California Eastern Laboratories (www.cel.com) develops the MeshConnect™ line of IEEE 802.15.4/ZigBee and other radio modules and transceiver ICs and is a member of the ZigBee Alliance (www.zigbee.org).

Silicon Laboratories Inc.

Silicon Laboratories is an industry leader in the innovation of high-performance, analog-intensive, mixed-signal ICs. Developed by a world-class engineering team with unsurpassed expertise in mixed-signal design, Silicon Labs' diverse portfolio of patented semiconductor solutions offers customers significant advantages in performance, size and power consumption. For more information about Silicon Labs, please visit www.silabs.com.

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This press release may contain forward-looking statements based on Silicon Laboratories' current expectations. These forward-looking statements involve risks and uncertainties. A number of important factors could cause actual results to differ materially from those in the forward-looking statements. For a discussion of factors that could impact Silicon Laboratories' financial results and cause actual results to differ materially from those in the forward-looking statements, please refer to Silicon Laboratories' filings with the SEC. Silicon Laboratories disclaims any intention or obligation to update or revise any forward-looking statements, whether as a result of new information, future events or otherwise.

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Silicon Laboratories Inc.
Dale Weisman, +1-512-532-5871
dale.weisman@silabs.com

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