

Release No. CEL109

CEL's MeshConnect™ Extended Range Module Delivers Unprecedented 802.15.4/ZigBee® Range and Performance

New module enables LED lighting control and applications in RF-noisy environments

Santa Clara, Calif. — October 13, 2009 —CEL is now shipping its new MeshConnect™ Extended Range Module for 802.15.4/ZigBee applications. Building on its extensive MeshConnect family of modules and IC's, the new module uniquely enables long range applications as well as those that must maintain robust mesh connections even in harsh, noisy, indoor RF environments. The new module also delivers special features such as extended data rates and a built-in voice CODEC processor.



Key Applications

With its ability to maintain strong connections, even in environments already congested with wireless interference such as Wi-Fi and Bluetooth, the Extended Range Module enables such new applications as intelligent lighting control for LED lighting, in-hospital patient monitoring, baby monitors with two-way voice, and RF4CE, a new technology for RF-based TV and set top box remote control.

Meanwhile, its ability to maintain RF links at long distances enables applications such as large farm irrigation, wireless control for highway and street lighting, asset management with location tracking, enterprise security systems with video and voice, and wireless sensors in large industrial environments such as oil refineries and manufacturing plants. "The Extended Range Module's robust link budget enables reliable networks even in harsh RF environments," said Rich Howell, CEL Director of Business Development.

Industry-Leading Performance

With a range of up to two miles, the Extended Range Module leads its category. Additionally, its superior +123.5 dB link budget enables higher data rates to be maintained for longer distances. Even though it is higher powered than shorter range modules, it has impressive battery life due to its extremely low <1 uA (microamp) sleep mode power consumption.

Pricing and Availability

The Extended Range Module is shipping now. Part number is ZICM2410P2. Pricing is <\$17 in thousand-piece quantities.

For more information, please visit:

<http://www.cel.com/static.do?command=MeshConnectExt&group=5>

http://www.cel.com/pdf/brochures/cel_meshconnect_extendedrangemodule_product_brief.pdf

Please contact David Cohen at david.cohen@cel.com for more information or to arrange a detailed technical briefing

About CEL

California Eastern Laboratories (www.cel.com) develops IEEE 802.15.4/ZigBee Radio Modules and Transceiver IC's and is a member of the ZigBee Alliance (www.zigbee.org). CEL is also NEC Electronics' exclusive sales, marketing, and development partner in the Western Hemisphere for products made by their Compound Semiconductor Device Division. CEL has sales offices, independent representatives, and distributors throughout the world.