

Release No. CL-420-P

CEL's MeshConnect™ Module Radically Cuts Time-To-Market for ZigBee®/ 802.15.4 Applications

New Single Chip Module Combines Outstanding RF Performance with Low Cost and Unique Features

Santa Clara, CA — March 9, 2009 — California Eastern Laboratories (CEL) is now shipping its **MeshConnect ZigBee radio module**, adding to its rapidly growing line of ZigBee/IEEE 802.15.4 transceiver solutions.

The module, based on CEL's own MeshConnect single chip integrated circuit (IC), is unique in its ability to deliver market-leading RF performance and range with a very low cost design. It is FCC, CE, and IC certified eliminating costly and time consuming regulatory testing. In conjunction with its development kit, the module is a complete hardware platform with a choice of software tools that enable customers to get to market quickly and efficiently.



Simple 802.15.4 Applications

The MeshConnect module's streamlined design and comprehensive software suite make it ideal for basic 802.15.4 applications where simple wireless point to point, point to multipoint, or mesh networking is required. The module enables various applications including cable replacement, automated heating, ventilating, air conditioning and lighting systems in commercial and residential buildings, as well as low cost installations of sophisticated security, irrigation, and other building systems.

Rich Feature Set

Though engineered with an industry-leading low cost design, the MeshConnect module delivers a surprising set of features, each of which enables new designs and applications.

Scalable, selectable data rates. Whereas most ZigBee modules run at 250 Kbps only, the MeshConnect module runs at 250 Kbps, 500 Kbps or a full 1 Mbps, enabling both higher speed applications as well as those that require a burst of throughput at key times.

Voice and video capability. The MeshConnect module is unique in that it has a built in Codec processor that enables voice and low resolution video applications such as security cameras, walkie-talkies, and intercom systems.

Low power consumption. The MeshConnect module is engineered for applications that require long battery life. It has impressive transmit and receive mode characteristics while the most important element of battery life - standby mode - is industry-leading at less than 0.3 microamps.

Extended Range. Because it is built upon the efficient MeshConnect single chip radio it has outstanding wireless engineering built in, with an industry leading +6 dBm out directly from the IC. Its receive sensitivity of -97 dBm combined with its very low EVM yield extended range, typically 3,000 feet.

Availability and Pricing

The MeshConnect module is available now as part of a broad family of MeshConnect ZigBee products, including integrated radio modules, transceiver IC's, MMIC power amplifiers, LNAs and switches for range extension.

Pricing is under \$15 per module in thousand piece quantities.

For more information on the MeshConnect module, please visit:

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

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About CEL

California Eastern Laboratories (www.cel.com) develops ZigBee / IEEE 802.15.4 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.