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CEL Enables Turnkey ZigBee Development

Company Ships New ZigBee Module and Development Kit for High Performance, Low Cost Applications

Santa Clara, Calif., November 3, 2008 — California Eastern Laboratories (CEL) today announced they are shipping **FreeStar Pro**, the world's first 32-bit ARM7 ZigBee radio module along with an enabling development kit. Based on the Freescale™ **MC13224V** 802.15.4 *Platform-in-Package* (PiP), the FreeStar Pro combines extensive processing capability with expansive on-chip memory and extremely low power consumption. The FreeStar Pro module enables designers to eliminate the external host processors typically required by 8 and 16-bit solutions, which helps simplify board designs, reduce component count, and lower overall system costs. Consequently, the module enables product designs that benefit from high performance but require low costs to make economic sense.



System designers will be able to take immediate advantage of the new evaluation and development kit for the FreeStar Pro. The kit includes three individual evaluation boards with mounted FreeStar Pro modules, plus all the peripheral accessories necessary to simulate a point-to-point, point-to-multipoint, or mesh network. Also included is Freescale's *BeeKit*™ wireless connectivity software. BeeKit provides developers an easy-to-use graphical user interface, plus a comprehensive code base of networking libraries, application samples, and templates. These code libraries enable development of applications in *ZigBee* and *ZigBee PRO*, as well as Simple MAC (SMAC) and IEEE 802.15.4. Developers already using BeeKit can easily port existing designs to the FreeStar Pro platform.

FreeStar Pro evaluation kits include a quick-start software package developed by **LS Research**, CEL's ZigBee design and development partner. This software allows system designers to quickly set up and configure a network, then run tests for range and packet error rates.

Availability

FreeStar Pro modules and development kits are available now from CEL, as part of CEL's growing family of module and System-on-Chip (SoC) ZigBee transceiver solutions.

For more information, please visit the California Eastern Laboratories website at www.cel.com.

Detailed information on the new FreeStar Pro module and development kit can be found at: <http://www.cel.com/static.do?command=ZigBeeNewProd&group=5>

About CEL

California Eastern Laboratories is NEC Electronics' exclusive sales, marketing and development partner in the Western Hemisphere for the products made by their Compound Semiconductor Device Division. Our 45-year alliance with NEC gives our customers access to world-class technology few companies can begin to match. At the same time, our independence allows us to enter into other partnerships that enable us to design, manufacture and deliver high frequency solutions that meet our customers' unique needs. CEL has sales offices throughout the country, plus a network of independent representatives and distributors throughout the world.