Modules designed to aid in development of products in compliance with ZigBee standards

Anaren, Inc. announced today that it has introduced a family of four Anaren Integrated Radio (AIR™) modules designed specifically to help OEMs develop products that wirelessly communicate in compliance with the ZigBee® standard. Based on the Texas Instruments Incorporated (TI) CC2530 low-power RF SoC (which operates using TI's Z-Stack™ firmware), the new family of AIR modules is bundled with AIR Support for ZigBee — a total solution that includes time-saving AIR-ZNP firmware (including 30+ code examples), pre-certification to applicable global, regulatory standards, and development tools like the Company's new BoosterPack for TI MSP430™ and Stellaris® LaunchPad development kits. A member of the ZigBee Alliance, Anaren unveiled the beta of its AIR module for ZigBee at the 2012 Consumer Electronics Show (CES).

Features and benefits of Anaren's new AIR module family for ZigBee standard applications (part number A2530x24xxx) include the following:
Anaren AIR modules for ZigBee standard applications (part no. A2530x24xxx)
General:
> Minimal RF engineering and ZigBee experience necessary
> Easy to program, for shortened design cycle
> Choice of integral or connectorized antenna
> Pre-certified to FCC/IC, compliant with ETSI
> Choice of range-extender or non-range extender modules
> Tiny, standardized footprint: 11 x 19 x 2.5mm
> 2.4-GHz IEEE 802.15.4 compliant RF transceiver (TI's CC2530)
> Excellent receiver sensitivity and robustness to interference (-95dBm average)
> Wide input voltage range (2.2V — 3.6V)
> 100% RF tested in production
> Module weight approximately 0.7 grams
> Low current Consumption: (TC = 25°C, VDD = 3.0V)

- active mode RX (CPU Idle): 28mA
- active mode TX (CPU Idle): 68mA @1dBm, 78mA @8dBm (limit for ETSI compliance), 130mA @ 15dBm (limit for FCC/IC compliance)

> Three low power/sleep modes from 1uA to 200uA

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