

PRESS RELEASE

Radiocrafts launches ZigBee® Smart Energy (SE) Module

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Radiocrafts AS, a leading provider of compact RF modules, now expand their product line with a compact ZigBee module dedicated for Smart Energy application (ZNM-SE). The module is based on a ZigBee PRO compliant platform and offers a complete ZigBee PRO protocol including support for the ZigBee Smart Energy profile.

The module supports the Certificate Based Key Exchange (CBKE), and the entire Key-Establishment cluster is embedded in the module. This eases the development effort for customers and also eases the processing burden on the external processor.

The Smart Energy application, being a meter, a display or a load control device, will be implemented in an external processor (MCU). The application will communicate with the module through an API via UART or SPI serial interface. The module can support any device specified in SE profile specification 1.0 and is also targeting all devices in the upcoming SE 1.1 release. Certificates and initial encryption keys is also written to the module via the serial interface.

The Smart Energy Module comes in two different hardware configurations, RC2400 and RC2400HP. The RC2400 is ideal for low power, battery operated products, while the RC2400HP has integrated 100mW PA and LNA adding significant range, giving an impressive 119 dB link budget.

The RC2400-ZNM-SE and RC2400HP-ZNM-SE modules are compact surface-mounted high performance modules measuring only 12.7 x 25.4 x 2.5 mm including EMC shielding. The module is delivered on tape and reel for volume production. Customization and customer specific setup is also offered and this includes pre-programming of encryption certificates. The ZNM-SE modules are pre-certified for operation under the European, FCC and ARIB radio regulations for license-free use.

The ZigBee Smart Energy module is pin compatible with Radiocrafts industry leading wireless M-Bus module (RC1180-MBUS) making the Radiocrafts wireless metering portfolio the most complete in the market. The new modules are based on Texas Instruments chip set and the industry leading Z-stack.

“The ZigBee Smart Energy module is another proof of our dedication to wireless metering. We now have the most complete range of wireless modules for metering, all with the same small footprint and high performance. This enables us to offer a wide range of solutions to our customer, each tailored to different markets”, says Peder Martin Evjen, Managing Director.

“Radiocrafts is a clear leader for radio modules dedicated to the metering industry. Their Wireless M-Bus modules provide the most complete solution supporting OMS and NTA8130/DSMR on the market. Their new ZigBee platform is ideal for the Smart Energy profile. They have succeeded in combining high RF performance with a compact form factor, achieving a complete RF solution that is easy to use for metering”, says Emmanuel Sambuis, General Manger – Metering in Texas Instruments.

The module, Demo Kits and PC development tools are available now.

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About **Radiocrafts AS**: (www.radiocrafts.com)

Radiocrafts is a leading RF module design and manufacturing company. Radiocrafts' standard RF modules provide compact, easy-to-use, low cost, low power and high performance RF solutions for a large number of wireless applications using license-free ISM bands. Using modules OEM manufacturers without RF design knowledge can easily add wireless technology into their design, reducing time-to-market, cost of design, test and compliance approvals. Radiocrafts also offers custom and application specific product development, supporting customers from initial project ideas to volume product delivery.