

PRESS RELEASE

Radiocrafts launches low cost, high performance ISM band RF modules at 2.4 GHz

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Radiocrafts AS, a leading provider of compact RF modules, now expand their product line with two new modules, the low cost RC2500-RC232 and RC2500HP-RC232. These are multi-channel RF transceivers with embedded protocol. RC2500 is below USD 10 in volume. RC2500HP includes a range extension LNA and 100mW PA. The new modules have numerous applications in M2M communication, sensor and control networks.

The module is a complete RF system solution including a high performance multi-channel FSK radio transceiver and a packet protocol handler, with an easy-to-use UART interface. The embedded RC232™ protocol provides a point-to-multipoint solution with individual addressing or broadcast, and CRC check for signal integrity. The module can also be used as a wireless RS232 / RS485 cable replacement.

The compact modules, measuring only 12.7 x 25.4 x 3.3 mm, makes up a complete RF modem in one single tiny package, replacing tens of components compared to a discrete design. No external components are required, except an antenna. The modules are delivered on tape and reel for efficient volume production. It's small size and low power consumption makes it ideal for integration into size constrained battery operated equipment.

The modules are based on a new very low cost platform, and have been developed for volume applications with a price target of less than USD 10 at 50k. The new modules are pin compatible with the RC11x0 series giving the customer a complete range of replaceable modules at 433, 868, 915 and 2450 MHz.

"The RC2500-RC232 enables us to provide ultra low cost modules at 2.4 GHz. With the easy-to-use embedded protocol we are convinced that the RC2500 modules will give the lowest total cost solution to the customers. Many of the solutions seen in the market today are complex to use and the integration is time-consuming and costly. With the RC2500HP high power module we overcome the range challenges often seen at 2.4 GHz." says Ørjan Nottveit, Product Line Manager.

The RC2500-RC232 and RC2500HP-RC232 (set to 10 mW) are pre-certified for operation under the European radio regulations for license-free use. When used with quarter-wave antennas a line-of-sight range of 1000 and 3500 meters, respectively, can be achieved at low data rates. Both modules are also designed for operation under the FCC regulations.

"Equipment manufacturers can now get a complete low cost wireless solution in a small compact form-factor that is easy to integrate, with only two pins for data I/O, one pin for supply voltage and one pin for the antenna. OEM manufacturers without RF design knowledge can now easily add a robust wireless solution to their space limited products, and significantly reduce time-to-market, development and compliance testing cost", says Tom Sjølie, Sales and Marketing Director.

Modules and Demo Kits 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.