

PRESS RELEASE

Radiocrafts announces RIIoT, a LPWAN (Low Power Wide Area Network) optimized for Industrial IoT applications

Radiocrafts announce a complete IoT network solution based on fully integrated RF modules.

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Radiocrafts AS, a leading provider of RF modules and wireless connectivity solutions, announced today a new family of RF modules that creates a complete LPWAN (Low Power Wide Area Network) optimized for Industrial IoT applications.

The radio protocol use IEEE 802.15.4 g/e providing bi-directional communications with short transmission pulses that enables dense networks with high reliability and very low power.

“Radiocrafts has always been focused on enabling customers to get fast to market with proven quality” says Peder Martin Evjen, Managing Director at Radiocrafts. “RIIoT is a continuation of this legacy with a compact RF module as the foundation, a simple set-up, and a novel solution to interface any sensor or actuator. We call this ICI, Intelligent C-programmable I/O. It allows our customer to create complex applications managing and interfacing sensors and actuators in less than 100 lines of C-code, removing the need for an external microcontroller in the leaf node”.

A complete RIIoT network includes sensor nodes based on the RC1880-SPR module, a gateway based on the RC1880-GPR module, and the RIIoT-NET, a Linux software that can run on any commercial gateway that is Linux based and has an SPI or USB interface.

The new RIIoT LPWAN solution is low cost, does not require any licence or subscription, and is very low power. A sensor node can run on a 500 mAh coin cell battery for 5 years with updates every few minutes.

Key features of RIIoT:

- 868 MHz or 915 MHz frequency
- Star network topology
- Supporting several hundred nodes in a network
- Very low power consumption, 5-year lifetime on a 500 mAh coin cell battery
- Universal sensor/actuator ICI interface
- Up to 8 km range, Line of sight, 5kbps / High Power option
- Use a COTS (Commercial Off The Shelf) Linux gateway for internet access
- Cloud application compatible via JSON objects

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For further information please contact:

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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.