

PRESS RELEASE

Radiocrafts launches TinyMesh RF modules with self-configuring mesh protocol for ISM bands

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Radiocrafts AS, a leading provider of compact RF modules, introduces a new, powerful mesh network protocol operating in all sub-1 GHz and 2.4 GHz license free ISM bands. TinyMesh networks are self forming and self healing without external interaction. Due to the mesh network redundancy, TinyMesh offers superior range and reliability, with no limitations in number of gateways or addressable nodes. Compared to other mesh protocols, TinyMesh gives the shortest time to market due to its ease of use and self-configuring capabilities. TinyMesh supports transparent data communication, as well as digital I/O control, analogue inputs and PWM outputs. Among several unique features, TinyMesh provides location information for asset tracking, automatic battery supervision and RF signal strength information.

Safe and reliable data traffic is secured by Listen Before Talk, CRC integrity check, acknowledge and retransmission mechanisms on every data packet delivery.

TinyMesh is available in Radiocrafts modules at 433, 865 and 868 MHz with optional 500 mW output power for European and Indian markets. Line-of-sight range in excess of 3 km per hop is achievable with the high power modules. TinyMesh further supports 915 MHz for North-America and 2.4 GHz with up to 100mW output power for world-wide use. TinyMesh modules are pin-compatible with Radiocrafts' world leading Wireless M-Bus and KNX RF modules.

TinyMesh is targeted at AMR/AMI, Home- and Building Automation and general telemetry- and industrial automation systems. It is an ideal solution for the rapidly growing street lighting market and Energy Management systems. The TinyMesh protocol has been developed in cooperation with TinyMesh AS.

“By launching TinyMesh in the market, we have again demonstrated our technological leadership in embedded wireless solutions. TinyMesh supports the trend towards large networks of nodes interacting to reduce energy consumption in for instance street lighting and building automation”, says Hallvard Moholdt, Technical Solutions Manager in Radiocrafts.

“TinyMesh is powerful, yet simple to deploy. It makes RF mesh networking instantly available to the development engineer in the form of a compact module, and relieves the R&D department of costly and complex RF network design. TinyMesh allows businesses to bring new M2M networked services to the market in a minimum of time by utilising TinyMesh's unique direct addressable I/O and self forming capabilities. We are very happy with our close cooperation and partnership with Radiocrafts. The highly skilled staff and dedicated 'no compromise' attitude at this leading wireless technology provider has proven to be the perfect match for TinyMesh. The broad range of high performance RF modules now makes TinyMesh instantly available for license free use in all global markets” says Thorstein Tønnesson, Managing Director of TinyMesh AS.

The TinyMesh modules and Demo Kits are available for immediate shipment.

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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.

*About **Tiny Mesh as**: (www.tiny-mesh.com)*

Tiny Mesh provides dedicated, OEM- and general purpose low power RF protocols for intelligent applications requiring simple installation and reliable data collection and control. Tiny Mesh is an active participant in the Norwegian Centre of Expertise, Smart Energy Markets initiative. TinyMesh is a trademark of Tiny Mesh as.