POONOOE-I Robust Ad-Hoc IP MESH COFDM Radio



- ✓ Ad-Hoc Network Secure COFDM
- ✓ Multi-Channel Wireless IP System
- ✓ Robust Reliable Wireless IP network
- ✓ Ruggedised Design
- ✓ Instant Ad-Hoc Networks
- ✓ Non Line of Sight
- ✓ Operates Between Fast Moving Vehicles



The PodNode-I COFDM IP MESH radio is a powerful addition to any wireless communication system. PodNodes in the same network automatically connect to other PodNodes to create a self-healing, mobile and dynamic IP mesh network. Each PodNode automatically routes data around the wireless network, and may easily be configured to operate without user intervention. This makes the system ideal for rapid deployment scenarios.

A PodNode MESH network can support up to 50Mbps data throughput, making it possible to transmit true realtime 1080p HD video. PodNodes support any third party IP device, and thus may be used to expand an existing LAN or MAN. Using Rinicom's powerful COFDM modulation, the PodNode provides robust RF communication in a variety of harsh environments. Multiple PodNodes as part of the same network naturally expand the range of the overall network.

PodNodes operate both in mobile and fixed deployments. Typical fixed deployments include first responder, rapidly deployable wireless networks, surveillance applications and long range wireless IP networks. Mobile applications include vehicle mounted convoy applications, body worn, mobile and advanced ground robot control.

Each PodNode may be controlled remotely through Rinicom's web interface, allowing the network operator to control each PodNode independently, or simply to monitor network status. With or without operator control, a PodNode MESH network 'simply works'.

PodNode-I is based on Rinicom's robust PodNode COFDM IP MESH technology, and is fully compatible with other PodNode MESH products in the range.



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PodNode-I Datasheet

Connectors

Ethernet/power out **RF** connectors

RF Interfaces

Antenna 1 RF frequency Frequency tuning Modulation Subcarrier modulation

Output power Output power tuning Bandwidth Bandwidth tuning MESH capacity

IP Interface

Standards compliance

RJ45 SMA female

TDMA transmit and receive UHF, L-Band, S-Band 1MHz COFDM QPSK, 16 QAM, 64 QAM (adaptive) +30dBm (1W) Max

0.5dB steps 5 to 20 MHz 1 MHz Up to 50 Mbps

System Control

RF power Node control Frequency control Encryption control Through web interface Through web interface Through web interface Through web interface

MESH

Number of nodes MESH configuration Routing

Up to 12 Ad-hoc, P2MP, P2P Automatic routing

Accessories & Compatible Products

Power cable Antennas PodNode-R PodNode-Mini PodComm IP camera H.264 encoder

Ethernet electrical

100BaseT Ethernet IEEE 802.3u, 802.1

Physical

Dimensions Weight Enclosure Temperature Operating humidity

162 mm x 127 mm x 40 mm 480g Aluminium with mounting holes -10°C to +40°C 0 to 90% (non-condensing)

Power

DC input Power consumption @ 1W 9-16VDC 14W

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For further information on this product or other products, please contact: Rinicom Ltd | Registered in England No. 4534336 Riverway House | Morecambe Road | Lancaster | LA1 2RX | UK Phone: +44 (0) 1524 84 04 50 Email: office@rinicom.com Web: www.rinicom.com