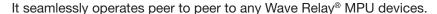




Wave Relay® is a Mobile Ad Hoc Networking System (MANET) designed to maintain connectivity on the move. It is a scalable, peer-to-peer network which provides data, video, and voice even in the most challenging applications. With user throughput of 41 Mbps UDP and 31.1 Mbps TCP, Wave Relay® provides a dynamic, reliable, and secure wireless networking solution beyond mesh.

The Quad Radio Router includes four customizable radio interfaces, and five 10/100 Mbps Ethernet ports that are IP67 rated and designed for outdoor use. An integrated NATO Audio 6-pin U-283/U connector enables standard push-totalk headsets and speaker boxes to be connected to the system. Two RS-232 serial ports are available that enable serial-over-Ethernet connectivity.





- Peer-to-Peer Mobile Ad Hoc Network (MANET)
 Push To Talk (PTT) Voice
- Secure High Bandwidth Data
- Transfers Data, Video, & Voice
- Multiple Video Streams
- Real-time Position Location

- Wave Relay® over IP (WRoIP)
- 27Mbps Multicast Throughput
- Cloud Relay Compatible

















QUAD RADIO ROUTER

PERSISTENT SYSTEMS

Seamless layer 2 network connectivity Industry leading Wave Relay® MANET routing ■ 802.11a/b/g AP compatible with MANET Integrated serial-to-Ethernet capability

■ Dynamic Link Exchange Protocol (DLEP)

Cursor-on-Target compatible

■ IPV4 and IPV6 compatible Integrated DHCP server Advanced multicast algorithms

NETWORKING

■ Cloud Relay[™]

Certified

SECURITY

Tamper evident

Over the air re-keying

FREQUENCY

WR Pin #	WR Frequency Range	WR Output Power
WR-RTR2-02	907-922 MHz	27dBm/500mW
WR-RTR2-03	2312-2507 MHz	28dBm/600mW
WR-RTR2-04	2412-2462 MHz	28dBm/600mW
WR-RTR2-09	5180-5320, 5500-5700, 5745-5825 MHz	28dBm/600mW
WR-RTR2-12	2312-2507 MHz	33dBm/2W*
WR-RTR2-14	1352-1387 MHz	27dBm/500mW
WR-RTR2-15	4400-4800 MHz	25dBm/320mW
WR-RTR2-16	4800-4985 MHz	26dBm/400mW

SPECIFICATIONS

Modulations OFDM, DSSS, CCK Channel Width 5, 10, 20 or 40 MHz

Throughput 41 Mbps UDP (20 MHz channel)

31.1 Mbps TCP (20 MHz channel) 27 Mbps Multicast Throughput

Radio (4) N-Type Female

GPS (1) SMA Connection (3.3V Active Antenna)

Size 8.5 x 6 x 2 in

21.6 x 15.2 x 5.1 cm

Weight 3.2 lb / 1451.5 g Security FIPS 140-2 Level 2

DATA CONNECTION

Connection 10/100 Ethernet (5) Type RS-232 Serial (2) PTT Audio

POWER & ENVIRONMENTAL

Power Consumption Average - 8 W Up to 55 W

Operating Temperature -40° to 85°C

-40° to 185°F

Enclosure IP67 Rated Cooling Convection cooled

WR - RTR2 - XXXXXXXX

- Power 8-48 VDC Serial 8-48 VDC
- **RF** Connector N Female
- Ethernet
- Voice
- On/Off Pushbutton/LED
- Fthernet 1 Power 8-48 VDC
- Ethernet 2
- **GPS**

10-48 VDC Input Power

NATIVE VOICE CAPABILITY

■ AES-CTR-256 with SHA-512 HMAC

■ FIPS 140-2 (Up to level 2)

Utilizes Suite B algorithms

■ Supports up to 16 channels of Push-to-talk (PTT) Voice

Integrated hardware cryptographic accelerator

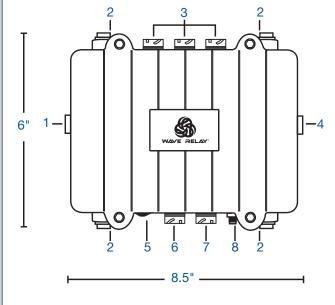
G.711 codec with toll-quality audio

MANAGEMENT

- Secure web management interface
- Network wide management and configuration functionality
- Google[™] Earth based network monitoring

MANUFACTURING & WARRANTY

- Designed and manufactured in USA
- Limited one year warranty
- Monthly training classes available
- Courses led by industry experts
- ISO 9001:2008 certified
- MIL-STD certified



^{*} For Military or Export Use Only