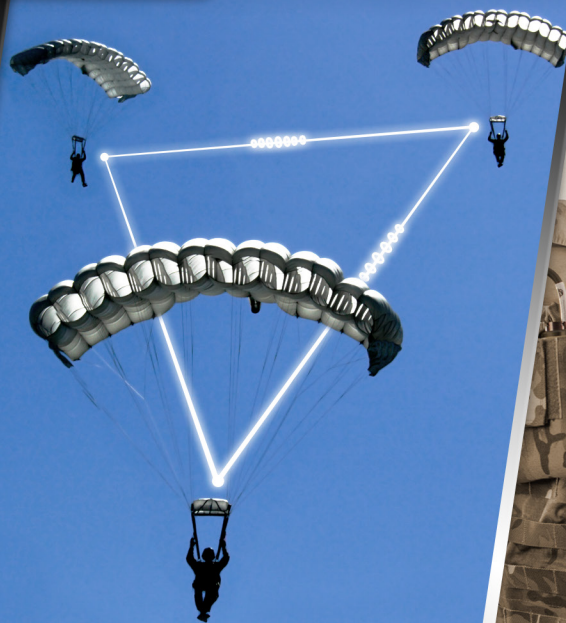




Man Portable Unit (MPU4)

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 37Mbps UDP and 27 Mbps TCP, Wave Relay™ provides a dynamic, reliable, and secure wireless networking solution beyond mesh.

The MPU4 brings the Wave Relay® Mobile Ad Hoc Network (MANET) capability directly to the dismounted user. Seamless Layer-2 Ethernet connectivity facilitates plug-and-play operation of cameras, video encoders, IP sensors, and other devices. In addition, the MPU4 is the smallest, lightest and most portable wireless MANET solution from the Wave Relay® product family. The MPU4 is compatible with PC-148/152 batteries, providing up to 14 hours of run-time. The MPU4 connects to Android™ phones and tablets through a high speed secure cable which also powers the device from the PC-148/152 battery.

- Peer-to-Peer Mobile Ad Hoc Network (MANET)
- Low Latency Command & Control
- Secure High Bandwidth Data
- Transfers Data, Video, & Voice
- Multiple Video Streams
- Real-time Position Location

*2 W module only available to government customers



GSA Schedule
Contract
Contract # GS-35F-0168V
Small Business



ISO 9001:2008

MADE IN USA



VIEW ONLINE

Networking

- Seamless layer 2 network connectivity
- Industry leading Wave Relay MANET routing
- 802.11a/b/g AP compatible with MANET
- Integrated serial-to-Ethernet capability
- Cursor-on-Target
- Wave Relay® over IP (WRoIP)
- Dynamic Link Exchange Protocol (DLEP) Certified
- IPV4 and IPV6 compatible
- Integrated DHCP server
- Advanced multicast algorithm

Security

- Integrated hardware cryptographic accelerator
- FIPS 140-2 (Up to level 2)
- Utilizes all Suite B algorithms
- Active response to tamper
- AES-CTR-256 with SHA-512 HMAC
- Over the air re-keying

Android™

- Multicast Video, position locator and chat in an Android application
- Supports commercial/custom phones and tablets
- Provides power through USB tether

Native Voice Capability

- Supports up to 16 channels of Push-to-talk (PTT) Voice
- G.711 Codec for Radio-over-IP (RoIP) interoperability

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

Specifications

Modulations	OFDM, DSSS, CCK
Channel Width	5, 10, 20 or 40 MHz
Throughput	37 Mbps UDP (20 MHz channel) 27 Mbps TCP (20 MHz channel)
Radio	(1) RP-TNC Antenna Connector
GPS	(1) SMA Connection (3.3V Active Antenna)
Size	Without Battery - 4.6 x 3.0 x 1.5 in 11.7 x 7.6 x 3.2 cm With Battery - 7.8 x 3.0 x 1.5 in 19.8 x 7.6 x 3.2 cm
Weight	1.1 lb / 499 g without battery 1.9 lb / 844 g with battery
Security	FIPS 140-2 Level 2

Data Connection

19-Pin Connector	10/100 Ethernet (2) RS-232 Serial PTT Audio 8-48 VDC Input Power 3.3 VDC Accessory Power
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Power & Environmental

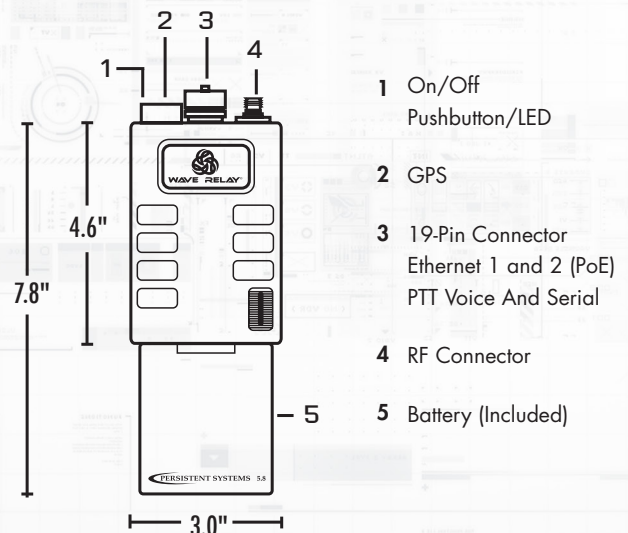
Power Consumption	Average - 4.2 W Peak - 16.5 W
Operating Temperature	-40° to 85°C -40° to 185°F
Battery Connector	PRC 148 / 152 Compatible
Enclosure	IP67 Rated

*2 W module only available to government customers

MPU4 SPECIFICATION SHEET

Frequency

WR Frequency Range	WR Output Power
763-778 MHz	28dBm/600mW
907-922 MHz	28dBm/600mW
2312-2507 MHz	28dBm/600mW
2412-2462 MHz	28dBm/600mW
5180-5320, 5500-5700, 5745-5825 MHz	28dBm/600mW
2312-2507, 5180-5320, 5500-5700, 5745-5828 MHz	24dBm/250mW
4945-4985MHz	26dBm/400mW
2312-2507 MHz	33dBm/2W *
4800-4985 MHz	30dBm/1W



WR – MPU4 – XX