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 MAN PORTABLE UNIT GEN3 (MPU3) IS A COMPACT RADIO DESIGNED FOR INSTALLATION OR USER-WORN APPLICATIONS, AND AVAILABLE IN SINGLE OR DUAL RADIO MODULES.

Seamless Layer-2 Ethernet connectivity facilitates plug-and-play operation of cameras, video encoders, IP sensors, and other devices.

- Peer-to-Peer Mobile Ad Hoc Network (MANET)
- Secure High Bandwidth Data
- Transfers Data, Video, & Voice
- Multiple Video Streams
- Real-time Position Location
- Push To Talk (PTT) Voice
- Wave Relay® over IP (WRoIP)
- 27Mbps Multicast Throughput
- Cloud Relay™ Compatible
MAN PORTABLE UNIT GEN3

SPECIFICATIONS

<table>
<thead>
<tr>
<th># of Radios</th>
<th>Modulations</th>
<th>Channel Width</th>
<th>Throughput</th>
<th>Throughput</th>
<th>WR Frequency Range</th>
<th>WR Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>OFDM, DSSS, CCK</td>
<td>5, 10, 20 or 40 MHz</td>
<td>41 Mbps UDP (20 MHz channel)</td>
<td>31.1 Mbps TCP (20 MHz channel)</td>
<td>27 Mbps Multicast Throughput</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>WR Pin #</th>
<th>WR Frequency Range</th>
<th>WR Output Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>WR-MPU3-02</td>
<td>907-922 MHz</td>
<td>27dBm/500mW</td>
</tr>
<tr>
<td>WR-MPU3-03</td>
<td>2312-2507 MHz</td>
<td>28dBm/600mW</td>
</tr>
<tr>
<td>WR-MPU3-04</td>
<td>2412-2462 MHz</td>
<td>28dBm/600mW</td>
</tr>
<tr>
<td>WR-MPU3-09</td>
<td>5180-5320, 5500-5700, 5745-5825 MHz</td>
<td>28dBm/600mW</td>
</tr>
<tr>
<td>WR-MPU3-12</td>
<td>2312-2507 MHz</td>
<td>33dBm/2W*</td>
</tr>
<tr>
<td>WR-MPU3-13</td>
<td>1350-1390 MHz</td>
<td>30dBm/1W</td>
</tr>
<tr>
<td>WR-MPU3-15</td>
<td>4400-4800 MHz</td>
<td>25dBm/320mW</td>
</tr>
<tr>
<td>WR-MPU3-16</td>
<td>4800-4985 MHz</td>
<td>26dBm/400mW</td>
</tr>
</tbody>
</table>

POWER & ENVIRONMENTAL

- **Power Consumption**
  - Average 4.3 W
  - Peak 16.5 W
- **RF Connector**
  - 1x RP-TNC Female
- **Power Cable**
  - Optional 3-Pin to Power Supply
- **Power Supply**
  - 10-48 VDC via External 3-Pin Port or PoE
- **GPS Connector**
  - 1x SMA Female
- **Operating Temperature**
  - -40º to 85ºC
  - -40º to 185ºF
- **Enclosure**
  - IP67 Rated

SECURITY

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

NATIVE VOICE CAPABILITY

- Supports up to 16 channels of Push-to-talk (PTT) Voice
- G.711 Audio Codec - allows for seamless digital audio integration with land mobile radio bridging systems

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

† Dual option can only use one 2W* radio module.
* For Military or Export Use Only