It is a scalable, peer-to-peer wireless 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.

Mobile devices such as Android™ phones and tablets now provide an easy to use platform to display information. Persistent Systems has developed the USB to Ethernet Tether cable to enable users to view information traversing the Wave Relay® network. Delivering power, enabling multicast, and providing a more secure connection to the network allows for the end user to see full motion video, position location, network connectivity and change audio channels all from a touch on the screen in the WaveSA Android™ App. Inserted into a ruggedized case, the Android™ device and Wave Relay® MPU4 provide a light weight, field ready capability for everyday use.
WaveSA App Features

- Position location of each node
- Link status between all nodes
- View phone-to-phone video or video from the MANET
- Multicast Group Chat
- Real-time notification of incoming chat requests & available video feed
- Breadcrumbing of selected nodes
- View GPS status
- Change of audio channel
- Replay of last audio message
- Control audio volume
- 27Mbps Multicast

WaveSA Configure

- See connection status
- Set IP address, subnet, and default gateway
- Configure Username/call sign and Cursor on Target (CoT) settings
- Enable USB Host Charging
- Network Configuration through Web Management Interface Shortcut

Specifications

<table>
<thead>
<tr>
<th></th>
<th>Unit 1</th>
<th>Unit 2</th>
<th>Weight</th>
</tr>
</thead>
<tbody>
<tr>
<td>Size (in)</td>
<td>3.17 x 5.95 x 0.37</td>
<td>80.5 x 151.1 x 9.4</td>
<td>182.5g / 6.43 oz</td>
</tr>
<tr>
<td>Weight (oz)</td>
<td>8.4</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>140.9 mm / 5.5 in (1280 x 720 resolution)</td>
<td>140.9 mm / 5.5 in (1280 x 720 resolution)</td>
<td>140.9 mm / 5.5 in (1280 x 720 resolution)</td>
</tr>
<tr>
<td>Cable Lengths</td>
<td>Shortest: 6in</td>
<td>Longest: 36in</td>
<td></td>
</tr>
</tbody>
</table>

Power & Environmental

- Power Consumption: 4W while charging, 300mW fully charged
- Operating Temperature: -40º to 85ºC (for Wave Relay®), -40º to 185ºF
- Enclosure: IP67 Rated (with Juggernaut Case)
- Processor: 1.6 GHz Quad Core
- Battery Life: 14 Hrs

MAN PORTABLE UNIT (MPU4)

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 standard 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 standard battery.

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