RELIABLE CONNECTIVITY WHEN YOUR TEAM NEEDS IT MOST

Built to create powerful, secure networks anywhere, the MPU5 unites all your critical data sources in real time – giving you access to the most advanced, most scalable Mobile Ad Hoc Network (MANET). Data, video, voice, and a fully integrated Android™ computer makes the MPU5 the world’s first Smart Tactical Networking Device.

SMART TACTICAL NETWORKING
- Onboard Android™ OS - the MPU5 is your computer
- Install existing Android™ apps
- Run custom apps natively
- Connect & use USB devices

STAY CONNECTED ANYWHERE
- Uses the Wave Relay® MANET
- Designed for mass scalability - no hop limits
- Rapid self-forming & self-healing
- True peer-to-peer - no master node

CARRY LESS. DO MORE.
- Network, voice, video, computer – all in one device
- Eliminate extra batteries, LMRs, encoders, receivers & more
- More room for mission critical equipment

INTERCHANGEABLE FREQUENCY MODULE
- State-of-the-art MIMO technology
- High reliability in complex environments
- Cost efficient and future-proof

STREAM HD VIDEO
- Fully integrated H.264 HD video encoding/decoding
- Connect video cameras directly to the unit
- View multiple video streams simultaneously
- HD output for connection to HDMI-compatible displays
- Stream video and voice simultaneously

RELIABLE VOICE COMMUNICATIONS
- Monitor up to 16 channels of voice
- Dual active PTT voice - key 2 channels at once
- Voice channel prioritization & configurable talk groups

INTELLIGENT RoIP TETHERING
- Integrated Radio Over IP (RoIP) functionality
- Bring your LMR radio onto the network
- Communicate across separate organizations seamlessly

NO NDA REQUIRED
## SPECIFICATIONS

<table>
<thead>
<tr>
<th>CASE</th>
<th>DIMENSIONS (NO BATTERY)</th>
<th>ENVIRONMENTAL</th>
<th>OPERATING TEMPERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>1.5 x 2.6 x 4.6 in.</td>
<td>IP68 Certified</td>
<td>-40° to +85° C</td>
</tr>
<tr>
<td></td>
<td>3.8 x 6.7 x 11.7 cm</td>
<td>IPx8 Waterproof 30 mins @ 20m or</td>
<td>-40° to +185° F</td>
</tr>
<tr>
<td>WEIGHT (NO BATTERY)</td>
<td>13.8 oz</td>
<td>2 hrs @ 10m rating</td>
<td></td>
</tr>
<tr>
<td></td>
<td>391 g</td>
<td>IP6x Dustproof</td>
<td></td>
</tr>
<tr>
<td>COATING</td>
<td>Black Anodized</td>
<td>MIL-STD-810G</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Shock/Vibe/Salt-Fog/Rain/</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Humidity/Icing/Altitude/Solar Rad</td>
<td></td>
</tr>
<tr>
<td>MOUNTING</td>
<td>(3) #4-40 0.15&quot; Mounting Holes</td>
<td>MIL-STD-461F</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>RE/RS/CE/CS</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>FREQUENCY MODULE</th>
<th>ENVIRONMENTAL</th>
<th>OPERATING TEMPERATURE</th>
</tr>
</thead>
<tbody>
<tr>
<td>Interchangeable Frequency Module</td>
<td>IP68 Certified</td>
<td>-40° to +85° C</td>
</tr>
<tr>
<td>(Ordered Separately)</td>
<td>IPx8 Waterproof 30 mins @ 20m or</td>
<td>-40° to +185° F</td>
</tr>
<tr>
<td>RF-1150 - 10W-L-Band Freq. Range:</td>
<td>2 hrs @ 10m rating</td>
<td></td>
</tr>
<tr>
<td>1350 - 1390 MHz</td>
<td>IP6x Dustproof</td>
<td></td>
</tr>
<tr>
<td>RF-2150 - 10W-S-Band Freq. Range:</td>
<td>MIL-STD-810G</td>
<td></td>
</tr>
<tr>
<td>2200 - 2507 MHz</td>
<td>Shock/Vibe/Salt-Fog/Rain/</td>
<td></td>
</tr>
<tr>
<td>RF-2125 - BAS Band Freq. Range:</td>
<td>Humidity/Icing/Altitude/Solar Rad</td>
<td></td>
</tr>
<tr>
<td>2025 - 2150 MHz</td>
<td>MIL-STD-461F</td>
<td>RE/RS/CE/CS</td>
</tr>
<tr>
<td>RF-4100 - Lower C-Band Freq. Range:</td>
<td>IP68 Certified</td>
<td></td>
</tr>
<tr>
<td>4400 - 5000 MHz</td>
<td>IPx8 Waterproof 30 mins @ 20m or</td>
<td></td>
</tr>
<tr>
<td>RF-5100 - Upper C-Band Freq. Range:</td>
<td>2 hrs @ 10m rating</td>
<td></td>
</tr>
<tr>
<td>5100 - 6000 MHz</td>
<td>IP6x Dustproof</td>
<td></td>
</tr>
<tr>
<td>RF Modulations:</td>
<td>MIL-STD-810G</td>
<td></td>
</tr>
<tr>
<td>OFDM (64-QAM, 16-QAM, QPSK, BPSK)</td>
<td>Shock/Vibe/Salt-Fog/Rain/</td>
<td></td>
</tr>
<tr>
<td>6W - 10W Transmit Power*</td>
<td>Humidity/Icing/Altitude/Solar Rad</td>
<td></td>
</tr>
<tr>
<td>Software configurable bandwidths:</td>
<td>MIL-STD-461F</td>
<td>RE/RS/CE/CS</td>
</tr>
<tr>
<td>5 MHz, 10 MHz, 20 MHz</td>
<td>IP68 Certified</td>
<td></td>
</tr>
<tr>
<td>TX/RX Operating Modes:</td>
<td>IPx8 Waterproof 30 mins @ 20m or</td>
<td></td>
</tr>
<tr>
<td>All modes from SISO to 3x3 MIMO</td>
<td>2 hrs @ 10m rating</td>
<td></td>
</tr>
</tbody>
</table>

### OPERATIONAL CAPABILITIES

#### FREQUENCY MODULE
- **INTERCHANGEABLE FREQUENCY MODULE**
  - Interchangeable Frequency Module
  - Interchangeable Frequency Module
  - Interchangeable Frequency Module
  - Interchangeable Frequency Module
  - Interchangeable Frequency Module
  - Interchangeable Frequency Module
  - Interchangeable Frequency Module
  - Interchangeable Frequency Module
  - Interchangeable Frequency Module

#### NETWORKING
- Advanced Wave Relay® multicast algorithms
- Seamless Layer 2 network connectivity
- Integrated serial-to-Ethernet capability
- Cloud Relay™
- IPv4 and IPv6 compatible
- USB RNDIS Host and Device

#### SECURITY
- Integrated Hardware Cryptographic Acceleration
- CTR-AES-256 Encryption
- HMAC-SHA-256 Authentication & Integrity
- Utilizes Suite-B Algorithms
- Cryptographically authenticated
- Over-the-Air Rekey and Key Zero
- FIPS-140-2 Certified

#### VIDEO
- HD-BNC Connection
- 3G-SDI & Composite Input
- Integrated HD H.264 Video Encoding/Decoding
- HD Video Output
- USB On-the-Go
- RS-232 Serial
- Ethernet
- Standard Charging Port (SDP): Rated for 500mA
- Charging Downstream Port (CDP): Rated for 1,500mA
- 3.3V Active
- Situational Awareness
- Cursor-on-Target Compliant
- 1 Second Updates
- Dual Active PTT Channels
- End User Device (EUD) Data / Charging
- Low Battery Alert
- Standard Twist-Lock Connector
- 8 - 28 VDC

Any radio transmitting at 6W or above is for military or international sales only.

NO NDA REQUIRED

© 2006 - 2021 Persistent Systems, LLC. All rights reserved. The Wave Relay® logo, the Persistent Systems, LLC logo and other designated trademarks and trade names are the property of Persistent Systems, LLC or their respective owners. Product specifications are subject to change without notice. This material is provided for informational purposes only; Persistent Systems, LLC assumes no liability related to its use and expressly disclaims any implied warranties of merchantability or fitness for any particular purpose.

The export and/or the release of certain products, technology and software to non-US persons might be subject to export restrictions. Please refer to the US export laws & regulations for details.