ONE SOLUTION. INFINITE POSSIBILITIES.

THE WORLD’S FIRST SMART RADIO
Onboard Android™ OS - The MPU5 is Your Computer
Install Existing Android™ Apps
Run Custom Apps Natively
Connect & Use USB Devices

STAY CONNECTED ANYWHERE
Powered by Wave Relay® MANET - The World’s Most Advanced 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, Radios, 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 Enabling Simple 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

PERSISTENT SYSTEMS
Android™ is a trademark of Google Inc.
**MPU5**

**THE WORLD’S FIRST SMART RADIO**

**VIDEO**
- HD-BNC Connection
- 3G-SDI & Composite Input
- Integrated HD H.264 Video Encoding/Decoding

**GPS**
- 3.3V Active
- Situational Awareness
- Cursor-on-Target Compliant
- 1 Second Updates

**FREQUENCY MODULE**
- Interchangeable Frequency Module (Ordered Separately)
  - **RF-1100** - L-Band Frequency Range: 1350 - 1390 MHz
  - **RF-2100** - S-Band Frequency Range: 2200 - 2500 MHz
  - **RF-4100** - Lower C-Band Freq. Range: 4435 - 4980 MHz
- RF Modulations: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
- 6W Transmit Power*
- Software configurable bandwidths: 5 MHz, 10 MHz, 20 MHz
- TX/RX Operating Modes: All modes from SISO to 3x3 MIMO

**WR-5100 MPU5 Chassis**

**3x3 MIMO TECHNOLOGY**
- Extended Range - LOS and BLOS
- 100+ Mbps of throughput
- Maximal Ratio Combining
- Spatial Multiplexing

**PTT / EUD**
- Dual Active PTT Channels
- End User Device (EUD) Data / Charging
- USB Host / RS-232 Serial HD Video Output
- Charging Downstream Port (CDP): Rated for 1,500mA

**DATA**
- USB On-the-Go
- RS-232 Serial Ethernet
- HD Video Input
- Standard Charging Port (SDP): Rated for 500mA

**POWER**
- Low Battery Alert
- Standard Twist-Lock Connector
- 8 - 28 VDC

**NETWORKING**
- Advanced Wave Relay® multicast algorithms
- Seamless Layer 2 network connectivity
- Integrated serial-to-Ethernet capability
- Cloud Relay™
- DLEP Certified
- IPv4 and IPv6 compatible
- Integrated DHCP server
- 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
- Rechargeable 30 Day Hold-Up for Keys and Configuration Settings

**MANUFACTURING & ENVIRONMENTAL**
- IP68 Rated
- MIL-STD Certified
- Anodized Black Coating
- Operating temperature: -40° to 85° C / -40° to 185° F
- Designed and manufactured in USA
- ISO 9001:2008 certified manufacturing facility

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*6W for Military and International sales only

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