MPU5
WR-5100

Smart Tactical Networking
- Onboard Android\textsuperscript{TM} OS - the MPU5 is your computer
- Install existing Android\textsuperscript{TM} apps
- Run custom apps natively
- Connect & use USB devices

Stay Connected Anywhere
- Uses the Wave Relay\textsuperscript{®} 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
PHYSICAL SPECIFICATIONS
- 1.5 x 2.6 x 4.6 in / 3.8 x 6.7 x 11.7 cm (chassis only)
- 13.8 oz. / 391 g (chassis only)

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-1150**: 10W L-Band Freq. Range: 1350 - 1390 MHz
- **RF-2150**: 10W S-Band Freq. Range: 2200 - 2507 MHz
- **RF-2125**: BAS Band Freq. Range: 2025 - 2150 MHz
- **RF-4100**: Lower C-Band Freq. Range: 4400 - 5000 MHz
- **RF-5100**: Upper C-Band Freq. Range: 5100 - 6000 MHz
- RF Modulations: OFDM (64-QAM, 16-QAM, QPSK, BPSK)
- 6W - 10W 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
- Standard Charging Port (SDP): Rated for 500mA

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

INTELLIGENT RoIP
- Legacy Radio Tethering
- Legacy Radio Detection
- USB Host / RS-232 Serial
- Standard Charging Port (SDP): Rated for 500mA

NETWORKING
- Advanced Wave Relay® multicast algorithms
- Seamless Layer 2 network connectivity
- Integrated serial-to-Ethernet capability
- Cloud Relay™
- 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

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 9001:2015 certified manufacturing facility

*6W for Military and International sales only

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