PERSISTENT SYSTEMS

MPU5
WR-5100

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
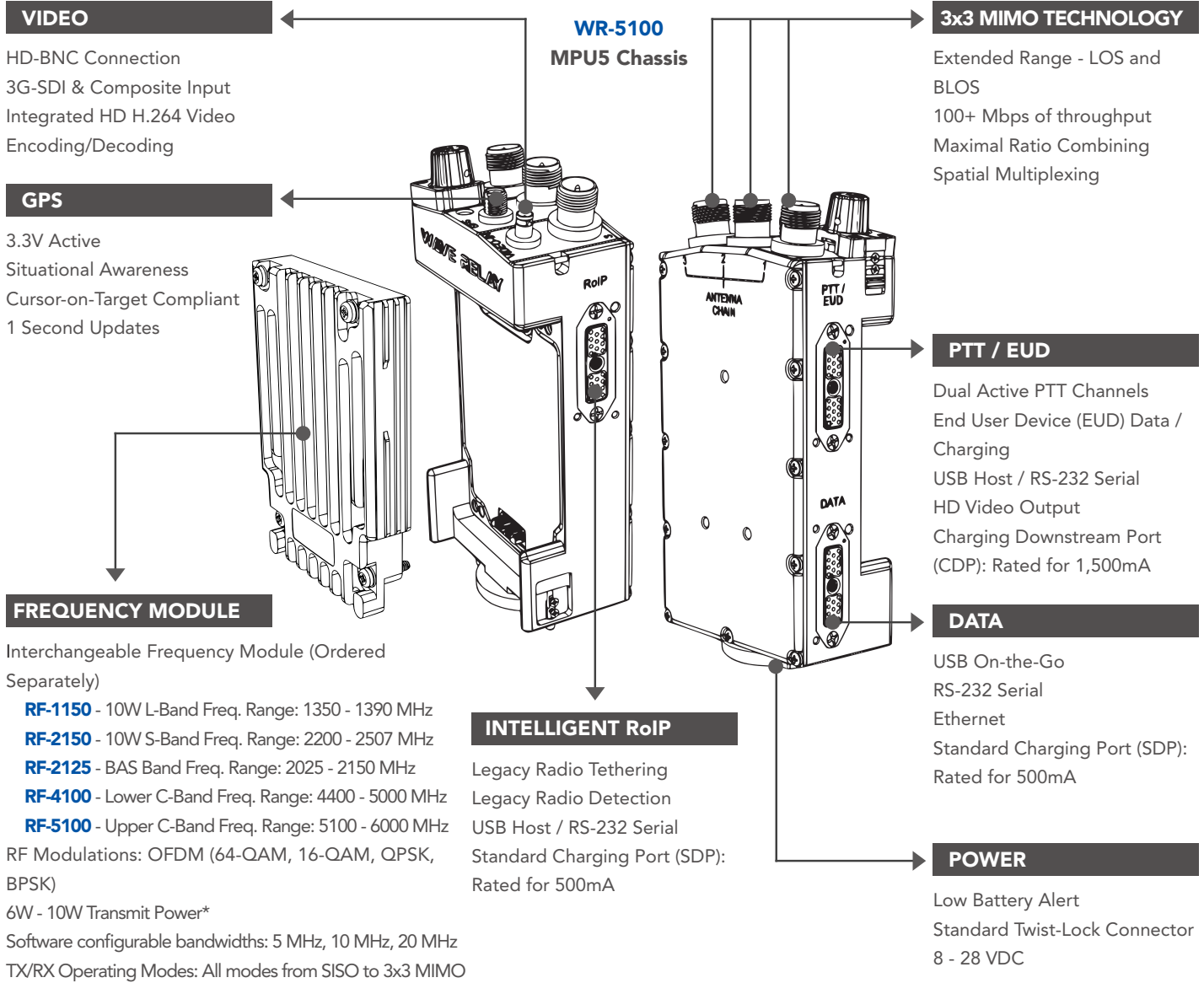
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PERSISTENT SYSTEMS

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

INTELLIGENT RoIP

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

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

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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