

## CHANGING THE WAY YOU COMMUNICATE



# MPU5

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 AndroidTM computer makes the MPU5 the world's first Smart Tactical Networking Device.

#### SMART TACTICAL NETWORKING

- Onboard Android<sup>™</sup> OS the MPU5 is your computer
- Install existing Android<sup>™</sup> 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 HDMIcompatible 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

ONE SOLUTION. INFINITE POSSIBILITIES.



## MPU5 WR-5100 SPECIFICATIONS

#### **DIMENSIONS (NO BATTERY)**

• 1.5 x 2.6 x 4.6 in.

#### • 3.8 x 6.7 x 11.7 cm

#### WEIGHT (NO BATTERY)

- 13.8 oz
- 391 g

#### COATING

- Black Anodized
- Meets MIL-A-8625-F, TYPE III, CLASS2

#### MOUNTING

• (3) #4-40 0.15" Mounting Holes

#### **ENVIRONMENTAL**

### IP68 Certified

- IPx8 Waterproof 30 mins @ 20m or 2 hrs @ 10m rating
- IP6x Dustproof

#### MIL-STD-810G

Shock/Vibe/Salt-Fog/Rain/Humidity/Icing/ Altitude/Solar Rad

#### MIL-STD-461F RE/RS/CE/CS

GPS VIDEO

#### **OPERATING TEMPERATURE**

• 40° to +85° C • 40° to +185° F

#### MANUFACTURING

- Manufactured in USA
- ISO 9001:2015 Certified
- Designed to MIL-STD

#### COMMERCIAL COMPLIANCE

- FCC/IC Certified
- Japan Type Approval
- RCM

#### **3x3 MIMO TECHNOLOGY**

- Extended Range LOS and BLOS
- 100+ Mbps of throughput
- Maximal Ratio Combining
- Spatial Multiplexing

#### INTELLIGENT RoIP

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

#### **FREQUENCY MODULE**

#### Interchangeable Frequency Module (Ordered

MODULAR RADIO

RF-1150 – L-Band Frequency Range: 1350–1390 MHz (10W) RF-2150 – S-Band Frequency Range: 2200–2500 MHz (10W) RF-2125 – BAS Band Frequency Range 2025–2145 MHz (6W) RF-4100 - Lower C-Band Frequency Range: 4400-5000 MHz (6W) RF-5100 - Upper C-Band Frequency Range: 5100-6000 MHz (4W)

#### **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:

**NETWORKING** 

SECURITY

All modes from SISO to 3x3 MIMO

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3x3 MIMO TECHNOLOGY

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DATA

- 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

#### GPS PTT / EUD

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

## VIDEO

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

#### POWER

· Low Battery Alert

Integrated DHCP server

• USB RNDIS Host and Device

Over-the-Air Rekey and Key

FIPS-140-2 Certified

- Standard Twist-Lock
- Connector 8 28 VDC

ISO 9001

- Integrated serial-to-Ethernet Advanced Wave Relay® multicast algorithms capability • Cloud RelayTM Seamless Layer 2 network connectivity IPv4 and IPv6 compatible
  - HMAC-SHA-256 Authentication & Integrity
    - Utilizes Suite-B Algorithms

7ero



Integrated Hardware

Cryptographic Acceleration

CTR-AES-256 Encryption

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• Dual Active PTT Channels