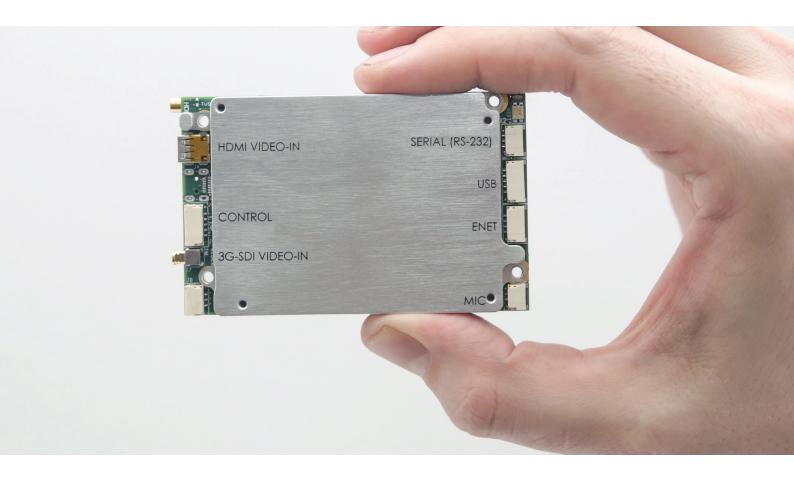
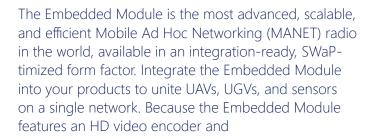


# CHANGING THE WAY YOU COMMUNICATE



Embedded Module



onboard Android™ computer, eliminate redundant equipment from your platform. The Embedded Module is compatible with Persistent System's full line of Interchangeable Frequency Modules, allowing you to change frequencies to ensure compliance, future-proof your design, and protect your product from obsolescence.



## **Specifications**

#### **Physical**

Weight

91g

#### **Main Board Dimensions**

 $5.1 \times 8.4 \times 1.5$  cm

#### Power

#### Input

8-30 V DC

#### **Power Consumption**

0.3 A & 12 V

#### Environmental

#### **Operating Temperature**

-40°C to +85°C

#### **Emissions**

RF102

MIL-STD-810G

#### Vibration

High Temperature (operational) High Altitude (operational)

#### 1/0

#### Interfaces

GPS HDMI In

3G-SDI/Composite In

Control (Sleep, GPIO, Zeroize, 1PPS,

GND)

RS-232 Serial

**USB OTG** 

**Ethernet** Audio In (Mic)

Audio Out (Speaker)

#### Android™ Computer

#### **Operating System**

Android™ 5.0 – Lollipop

#### Processor

1 GHz Quad Core ARM

#### **RAM**

2GB

#### Storage

128GB Flash

#### Networking

#### **Ethernet**

10/100 Mbps

Integrated serial-to-Ethernet

#### Integration and Extension

Seamless layer 2 network Cloud Relay™ compatible

#### **Protocols**

Advanced multicast algorithms IPv4 and IPv6 compatible Integrat-

ed DHCP server

USB RNDIS Host and Device

#### Video

Video Input

3G-SDI

Composite

**HDMI** 

#### Video Compression

H.264 Encoding and Decoding

Native Scaling

#### **Bit Rates**

500 Kbps - 20 Mbps

#### Frame Rates

6/10/15/24/29.97/30/59.94/60 fps 59.94/60 fps not available at 1080p

#### Resolutions

240p

SD 480

SD 576 PAL

720p

q080t

#### **Network Protocols**

UDP Multicast & Unicast (MPEG-2

Transport Stream)

RTP Multicast & Unicast

RTSP Unicast

#### Security

#### **Crypto Modes**

CTR-AES-256 Encryption

SHA-256 HMAC

#### Hardware

Cryptographic Acceleration Suite-B

Algorithms

#### **MANET**

#### **MANET**

Wave Relay®

Self-Forming/Healing

Peer-to-Peer

No Master Node

#### **Node Entry Time**

<1 sec.

#### Max. Number of Hops

No Limit

### Max. Number of Nodes

No Limit

#### Max. Distance between Nodes

130 mi

## **Transform Your Systems into Network Devices**

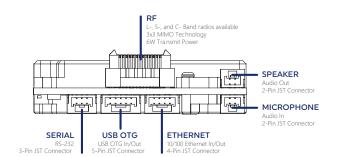
- Designed for integration into disparate unmanned systems and sensors
- Communicate further and faster than ever before
- Communication, computing, and video encoding all in a single device

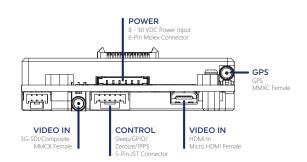
# **SWaP-timize Your Unmanned Systems**

- Consolidate your computing, video encoding, communications, and networking hardware
- Focus on what matters most: the mission, time on station, and payloads
- · Streamlined integration

# **Achieve the Vision**

- Bring your unmanned platform into the Wave Relay® Ecosystem
- MPU5 radio users can now operate your platforms, watch your video feeds, and steer your cameras
- Take your unmanned systems to the next level by adding swarming, autonomy, and collaborative capabilities









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