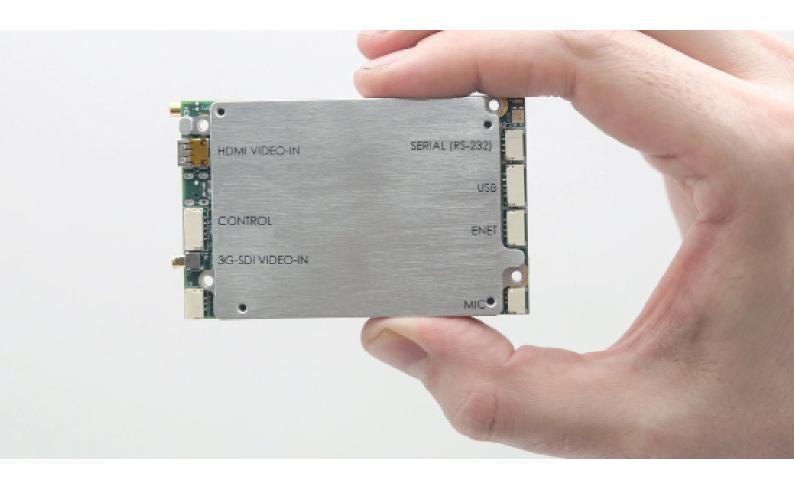
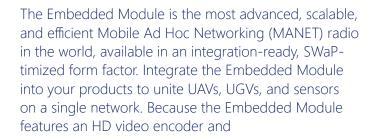


# CHANGING THE WAY YOU COMMUNICATE



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

8-28 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™

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

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 PAI

720p

1080p

**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**

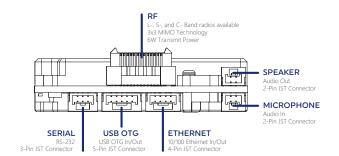
- Designed for integration into disparate unmanned systems and sensors
- Communicate further and faster than ever before
- Communication, computing, and video encoding all in a single device

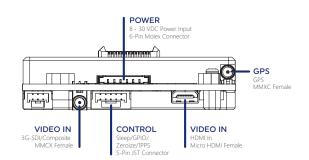
## **SWaP-timize Your Unmanned Systems**

- · 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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