**THE WORLD’S FIRST SMART RADIO**

**BENEFITS OF THE MPU5**
- Ideally suited for body-worn application
- Dramatically reduced size, weight, and power
- Network land, air and sea assets
- Gain a unified operational picture for maximized soldier safety
- 16 Talk Groups, Dual Active PTT
- Onboard Video Encoding/Decoding
- Extended Range and High Throughput
- Over-the-horizon comms with Wave Relay®-enabled ISR or other airborne platforms
- Onboard Android™ OS - Run ATAK natively
- Seamlessly integrate FLIR systems and other fielded systems within SOCOM
- Intelligent RoIP Tethering to Legacy Radios

**YOUR RADIO IS NOW THE COMPUTER**
Persistent Systems’ team of engineers designed the MPU5 to be an Android™ computer system: a smart radio. The MPU5’s on-board Android™ OS enables you to install and run 3rd party applications directly on the device. As a smart radio, the MPU5 is a network and mobile computing platform that works simply and easily. Plug sensors directly into the MPU5 to process data without additional hardware. Connect a monitor, mouse, and keyboard to create a command center in the field. Control unmanned vehicles, run ATAK situational awareness suite, watch video, and monitor sensors directly from the MPU5.

**STREAM HD VIDEO**
The MPU5 enables you to encode and stream live audio and video without the need for external hardware encoders by directly connecting HD and SD camera systems via 3G-SDI, HDMI, and Composite video inputs. The MPU5 encodes and streams H.264 feeds at resolutions ranging from 320x240 to Full HD 1080p30 and 720p60. The onboard hardware-accelerated video encoder supports both unicast and multicast UDP streaming in a MPEG-TS transport stream. The MPU5 also provides hardware-accelerated H.264 video decoding, enabling you to watch up to four video streams simultaneously.

**CONTINUOUS CONNECTIVITY ON THE MOVE**
The Wave Relay® MANET was designed for the mobile user and is the core of the MPU5. The MPU5, powered by the Wave Relay® MANET, allows a distributed and decentralized group of fully mobile users to communicate continuously and efficiently without the need for fixed infrastructure of MAC-level timing.

Every MPU5 on a Wave Relay® network communicates with each other, forming a true peer-to-peer mobile network with no master node or base station. Freely add and subtract MPU5s from the network without losing connectivity or reconfiguring your devices. The Wave Relay® MANET routes data from radio to radio, enabling the network to grow, adapt, and extend as more MPU5s are added. Massively scalable and incredibly intelligent – the MPU5 keeps you connected and ready for anything.

**THE WAVe RELAY® ADVANTAGE**
“The MPU5’s ability to give operators access to sensors, UAVs, and other battlefield enablers enhances overall effectiveness. The situational awareness provided by the MPU5 is a tool that makes it much easier for operators to manage complex command and control scenarios with confidence. The overall adaptability of the MPU5 increases a team’s effectiveness and safety by bringing all the technology on the battlefield right to the soldier’s fingertips, while actually decreasing the amount of equipment operators carry.”

**FIND – FIX – FINISH – EXPLOIT – ANALYZE – DISSEMINATE**

**SEE THROUGH THE FOG**
Teams equipped with the MPU5 will stay connected and be able to share critical information as assignments unfold. Enable leaders to make better decisions by providing them with better data, faster. Track everyone’s positions and movements with integrated GPS. Capture, distribute, and view full motion HD video to investigate, coordinate, and complete your mission. Stay in the know.

**ACHIEVE FASTER SPEEDS AT LONGER RANGES**
With up to 6W of power and 3x3 MIMO technology, the MPU5 communicates more data faster, further, and more reliably than any other MANET system available. MIMO technology allows for extended range and increased throughput in complex urban, subterranean, and maritime environments - both line of sight (LOS) and non-line of sight (NLOS). The MPU5 implements state-of-the-art MIMO diversity technology, including Spatial Multiplexing and Maximal Ratio Combining. Teams working in cities, tunnels, and buildings will experience the MPU5’s tremendous performance advantage where other radios fail.

- Multiple Frequency Bands Supported (L-, S-Band – C-Band coming soon)
- 6W Transmit Power
- 100+ Mbps of Throughput (on 20MHz Channel)

**RELIABLE VOICE & INTELLIGENT RoIP TETHERING**
Reliable voice communication is critical for success. The MPU5 delivers crystal clear Push-to-Talk (PTT) voice over 16 switchable and independently configurable talk groups. The Wave Relay® MANET enables you to maintain continuous voice connectivity as you move around corners and traverse the environment. Utilizing the G.711 audio CODEC, the MPU5 seamlessly integrates with 3rd party radio interoperability systems commonly used in operations centers.

The MPU5’s intelligent Radio over IP (RoIP) Tether feature allows you to communicate across separate organizations seamlessly. With one simple cable, the MPU5 tethers to your existing Land Mobile Radio (LMR) system and makes it available as a talk group to MPU5s on the network. Everyone carrying an MPU5 can now speak on all of the existing LMR channels.

**THE RANGE, HD VIDEO STREAMS, PTT AUDIO, URBAN, INTELLIGENT TETHERING, RURAL, IP68 RATED**

**PERSISTENT SYSTEMS**

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