



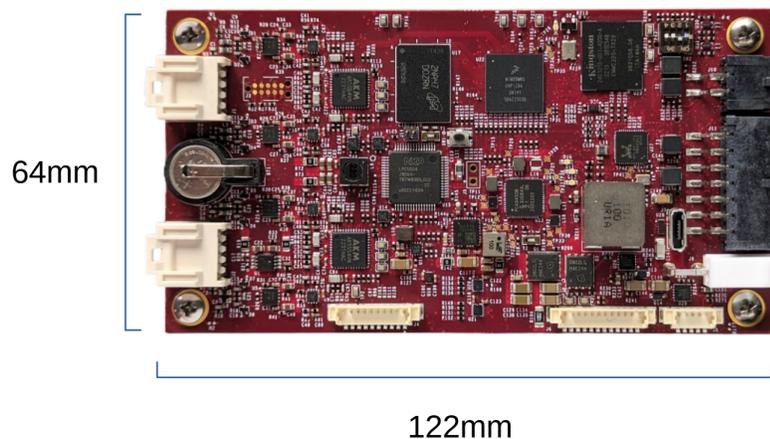
Popoto PMM6081

Product Overview:

The Popoto PMM6081 is an advanced underwater acoustic modem that boasts exceptional performance and an array of unique features, making it an ideal choice for a wide range of applications. With gigabit ethernet capabilities, 32GB of onboard storage, a web interface, PPS input, and a battery-backed real-time clock, this modem has advanced capabilities for various use cases. Supporting up to 8 channels of concurrent hydrophone input and the ability to transmit at up to 190dB spl re 1uPa at 1m, the PMM6081 showcases both versatility and robustness.

Features:

- Supports up to 8 individual hydrophones
- Multiple modulation schemes from 80 BPS to 10240 BPS
- C++, Python, and Matlab APIs for on-board user programming and data analysis
- Capable of running MARIA
- Acoustic ranging (Accurate to <0.3m)
- High-capacity data logging (microSD card)
- Baseband and passband waveform playback and recording
- JANUS (NATO ANEP-87) compliant version available





Data Transfer	
Data Rates	80 bps with Frequency Hopping FSK 10240, 5120, 2560, 1280, 640 bps with PSK
Storage	32gb internal Expandable with microSD (up to 512gb)
Range	1-8 Km depending on conditions and modulation scheme selected.
Frequencies	22-45 KHz selectable 10-100 KHz (domestic only)
Transducer Type	20-30 KHz Omnidirectional
Voice Communications	
Voice Features Included	Single Sideband Voice Adaptive Squelch and Vox Noise Cancellation
Power	
Operating Voltage Range	8.5-36V
Power Draw	GPIO Enabled Sleep: < 10uW Acoustic Wake Up Sleep: 10-15mW Active Receive: 2.0 W
Transmit Power	190 dB (re 1µPa @ 1m) With PMT-28-OS-10 Transducer
Battery	1 to 4 x 77Wh 22.2V Li-Ion
Interface	
Data Connections	Gigabit Ethernet, RS-422, RS-232
External Interface Connections	SPI Bus, I2C Bus, GPIO, Analog
APIs	Python, C++, MATLAB, JSON
Processor	16,000 megaFLOPS 4-core ARM processor
Operating System	Debian Linux available for user applications
Hardware	
Size	63mm x 122mm x 50mm
Weight	500g
Export Classifications	5A991 Controlled for anti-terrorism only

