



PopotoSlim

Robust Communications at the Speed of Sound™

Features and Benefits

The PopotoSlim delivers reliable subsea communications, flexible, programmable interfaces and small size at an amazing low cost. Leveraging the latest processor advances brought on by the cell phone market explosion, PopotoSlim ushers forth a new price point for acoustic communications allowing new innovative ocean solutions previously thought impossible!



Technical Specifications

- ✓ Data Receive at 80 bps, Data transmit from 80 bps to 10kbps
- ✓ Janus-Compliant Frequency Hopping Version
- ✓ PYTHON API
- ✓ Single Sideband Voice integrated with data modem
- ✓ High Capacity Data Logging (up to 64 GB on SD card)
- ✓ Flexible interfaces Ethernet, RS-422, RS-232 (ttl)
- ✓ Low Power Acoustic Wake up (50 mw)
- ✓ Real time Acoustic Data Streaming via Ethernet
- ✓ Band C transducer

Options Available

- ✓ Aluminum Housing good to 1500 m
- ✓ Full or Partial Source Code Available
- ✓ MATLAB™ API



ADVANCED Design

- ✓ Compact, powerful & low cost
- ✓ Advanced high fidelity acoustic interface
- ✓ Modular, well designed software for robust operation
- ✓ API Driven for custom solutions



FLEXIBLE Interfaces

- ✓ Ethernet TCP Socket interfaces for Control, Status & Data
- ✓ DSHELL provides command line interface via Sockets or RS422/RS232
- ✓ PYTHON and MATLAB simple APIs



VOICE Integration

PopotoSlim easily switches between voice and data for diver monitoring or other voice telephone operation



PopotoModem

Robust Communications at the Speed of Sound™

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PopotoSlim Specifications

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Dimensions	<ul style="list-style-type: none">• 110mm x 30mm x 33mm* (OEM Boardset) * additional 15mm required with optional ethernet jack
Power Draw Sleep (Acoustic Wakeup < 100mS) Active Receive	<ul style="list-style-type: none">• <50 mW• <1W
Modulation Rates Multi Carrier Frequency Hopping FSK PSK (Transmit Only)	<ul style="list-style-type: none">• 80 Bits Per Second• 10240, 5120, 2560, 1280, 640 Bits/Second
Transmission Power	<ul style="list-style-type: none">• Up to 20W, Infinitely selectable.
Transmission Distances	<ul style="list-style-type: none">• 1-5Km Depending on conditions and modulation scheme selected.
Data Connections	<ul style="list-style-type: none">• 10/100 Ethernet• RS-422• RS-232
Voice Communications	<ul style="list-style-type: none">• Single Sideband Audio• Vox transmit control• Automatic Squelch• Selectable Carrier Frequency 20-35Khz
Carrier Frequency	<ul style="list-style-type: none">• 22-35 KHz Selectable
Transducer	<ul style="list-style-type: none">• 20-30KHz Omnidirectional Transducer
Data Logging	<ul style="list-style-type: none">• 64 Gigabytes on optional uSD
External Interfaces	<ul style="list-style-type: none">• SPI Bus• I2C Bus• GPIO• Analog (with optional software)
Voltage Range	<ul style="list-style-type: none">• 9.6-19V
Features	<ul style="list-style-type: none">• Fully programmable Python API for on board user programming• Acoustic Ranging• Socket Based API for remote control.• MATLAB API for Data Analysis• Baseband and passband waveform playback and record.
Options:	<ul style="list-style-type: none">• Aluminum Housing for 1000m Deployment• 14.8V Lithium Ion Battery Pack 129 WH• Deck Box
Export Classification	<ul style="list-style-type: none">• 5A991 Controlled for Anti Terrorism only



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