



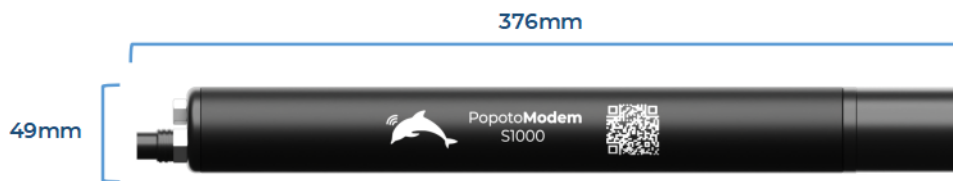
Popoto S1000

Product Overview:

The Popoto S1000 is an advanced underwater acoustic modem which delivers superb performance, unique features, and flexible interfacing, allowing for use in nearly any application. Featuring a compact machined aluminum casing which can withstand depths of up to 1000 meters and a transmitter capable of transmitting at up to 20W, the S1000 is both versatile and robust.

Features:

- Multiple modulation schemes from 80 BPS to 10240 BPS
- Python API for on-board user programming
- MATLAB API for data analysis
- Acoustic ranging (Accurate to <0.3m)
- High-capacity data logging (SD Card)
- Baseband and passband waveform playback and recording



\$4,345 USD*

*includes 77Wh Li-Ion battery, charger, and 1m lab cable





Data Transfer	
Data Rates	80 bps with Frequency Hopping FSK 10240, 5120, 2560, 1280, 640 bps with PSK
Storage	64 GB on included uSD
Range	1-4 km depending on conditions and modulation scheme selected.
Frequencies	22-35 KHz selectable
Transducer Type	20-30 KHz Omnidirectional
Power	
Operating Voltage Range	12-40V
Power Draw	Deep Sleep: <45 mW Sleep: 150 mW Active Receive: 1.25 W
Transmit Power	20 W
Battery	22.2V 2500mAh Li-Ion
Interface	
Data Connections	Ethernet, RS-422, RS-232
External Interface Connections	SPI Bus, I2C Bus, GPIO, Analog
APIs	Python, C++, MATLAB, Rust (Coming Soon)
Hardware	
Size	376mm x 49mm x 49mm
Weight	Dry: 1220g (Li model), 800g (RP model) In Sea Water: 550g (Li model), 250g (RP model)
Depth Rating	1000m
Export Classifications	5A991 Controlled for anti-terrorism only

