



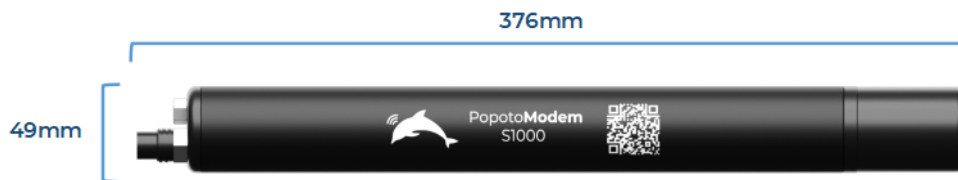
## Popoto S1000

### 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



**\$4,875 USD\***

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





<b>Data Transfer</b>	
Data Rates	80 bps with Frequency Hopping FSK 10240, 5120, 2560, 1280, 640 bps with PSK
Storage	128 GB on included uSD Expandable with optional SATA Drive
Range	1-4 km depending on conditions and modulation scheme selected.
Frequencies	22-35 KHz selectable
Transducer Type	20-30 KHz Omnidirectional
<b>Power</b>	
Operating Voltage Range	12-40V
Power Draw	GPIO Enabled Sleep: < 10uW Acoustic Wake Up Deep Sleep: <45 mW Acoustic Wake Up Sleep: 150 mW Active Receive: 1.5 W
Transmit Power	20 W
Battery	22.2V 2500mAh Li-Ion
<b>Interface</b>	
Data Connections	Ethernet, RS-422, RS-232
External Interface Connections	SPI Bus, I2C Bus, GPIO, Analog
APIs	Python, C++, MATLAB, JSON
Linux Operating System	ARM9 Running Linux available for user applications
<b>Hardware</b>	
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

