

## B.O.R.E.A.L.I.S. – Bristlemouth Open Recorder & Edge-processor for Acoustic Low-power Information Systems

Low-cost, versatile, acoustic recorder and edge-processing unit compatible with bristlemouth open data protocols. This unit records up to two channels of acoustic data and is designed for high SNR surface targets. It is deployed with the Sofar Spotter buoy in either moored or drifting configuration.

## Standard model specifications:

• Depth rating: 100m

• Power consumption: ~39 mW

• Size: 2" diameter; 10" length

• Hydrophone sensitivity: -203 dB re 1V/µPa

• Pre-amp gain: 30.9 dB

• Digitization bit depth: 24 bits dithered to 16 bits

AOS custom power and comms

Frequency Band: 18 Hz - 16 kHz
Sample frequency: 31.25 ksps

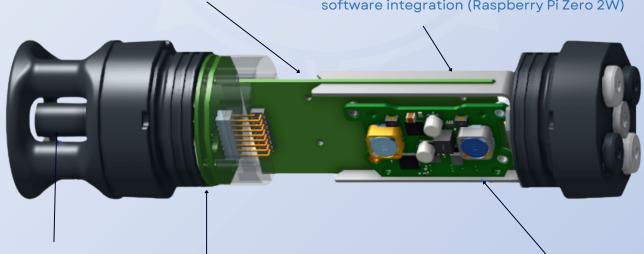
Maximum storage: 1 TB (>60 days)

interface board

• Weight: < 2lbs



SBC for high-power processing and customer software integration (Raspberry Pi Zero 2W)



Sensor Tech SQ-17 Hydrophone AOS SCARI PCB for Acoustic data acquisition and low-power processing

Sofar MOTE PCB for Bristlemouth Interface

For more information contact AOS at: contact@appliedoceansciences.com