

# Bristlemouth Development Kit • Custom Subsurface Sensing



Integrate custom or off-the-shelf devices with Spotter to expand your subsurface sensing suite.

- 1 **Powered by Bristlemouth**  
The Development Kit utilizes Bristlemouth, our open standard that delivers plug-and-play hardware interfaces for marine technologies.
- 2 **User-Friendly Development Board**  
Rapidly add existing off-the-shelf sensors or prototype Bristlemouth-powered devices using I/O connection and digital interfaces for embedded integration.
- 3 **Plug-and-Play**  
Increase speed and scale of sensor integration using dual Bristlemouth ports that support daisy-chain configurations.
- 4 **Ocean-Proof Marine Housing**  
Ensure continuous data collection with a robust two-conductor connector, watertight enclosure, and modifiable endcap for cabling to external devices.

## Core Specifications

Processor	STM32U575CI ARM Cortex-M33 processor
Firmware	Open source C/C++
Memory	64 Mbit NOR FLASH
External Kit Dimensions	O.D. 76 mm, Length 200 mm
Maximum Power	Up to 10W continuous
Data Rates	10 Mbit/s
Interfaces	RS232 / RS422 / RS485 / SDI-12 / UART / SPI / I2C / GPIO
Output Voltages	3.3V, 5V Selectable: 9V, 12V, 19V
Maximum Operational Depth	100 m

