



**SOUNDNINE INC**

*Helping build successful  
monitoring systems*

## SIMC

**Subsurface Inductive Mooring Controller**

The SIMC is a battery powered submersible controller with a built-in inductive modem. It incorporates elements of S9's well proven DANTE Buoy Controller and Ulti-modem and is ideal for applications where a surface telemetry buoy is either impractical or must be separated from the subsurface mooring by some distance.

The SIMC is ideal for controlling one or two ADCP's on a bottom platform or subsurface float and relaying data through inductive modem or acoustic modem to a nearby buoy or station for real-time transmission.

Inductive communications can operate over both vertical and horizontal sections of wire rope. This allows a subsurface float with a SIMC controlling multiple ADCP's to relay data to a nearby Ultibuoy for immediate transmission to shore.



### Batteries

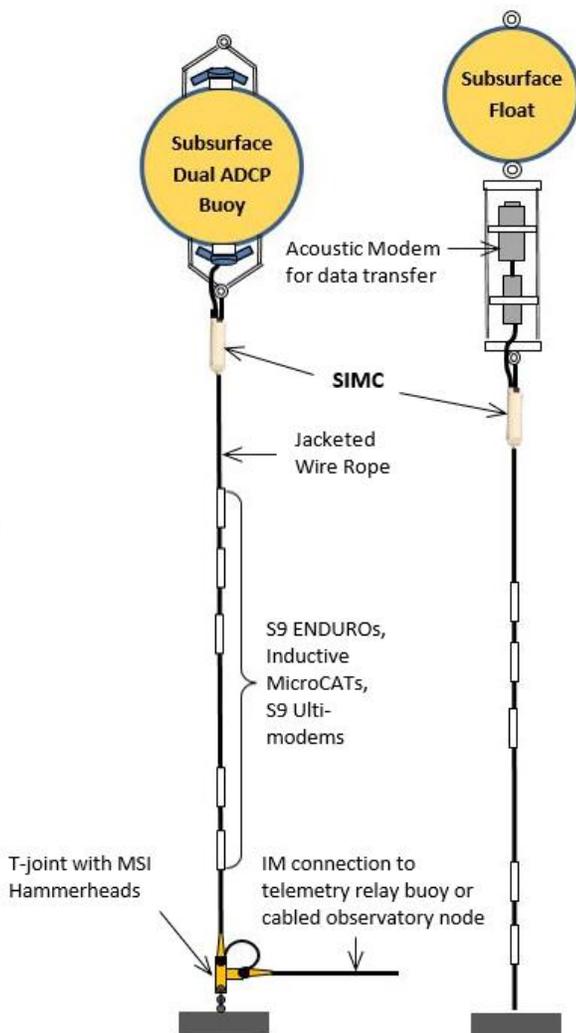
The SIMC has an internal backup battery and an external battery pack. The external pack is attached to the main housing by captive screws and power is coupled inductively to the electronics, enabling underwater replacement by a diver. All instrument data are recorded to an SDHC card.

### Serial Ports

The SIMC includes two serial ports and allows an optional third port. Either port may be used to communicate with and program the SIMC. Both ports may be used to log data and control serial instruments such as an ADCP or acoustic modem. The third serial port option requires a six or eight pin connector and a Y splitter cable.

### Internal Sensors

The SIMC includes an internal humidity sensor, 3-axis accelerometer, magnetometer and battery voltage and current monitors. Internal sensor data is logged and transmitted.



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## Specifications

**Power:** 6-18 VDC Input  
<25 micro amps quiescent  
~6 milliamps operating  
~12 milliamps during IM transmit

**Serial Sensor Interfaces:**  
2 or 3 (RS-232)

**Inductive Modem Interface:**  
S9 Ulti-modem - 1200, 4800 baud  
Sea-Bird – 1200 only

**Memory:**  
8 MB Flash  
8-32 GB Micro SD card

**Dimensions:** 26 cm x 12 cm x 9 cm

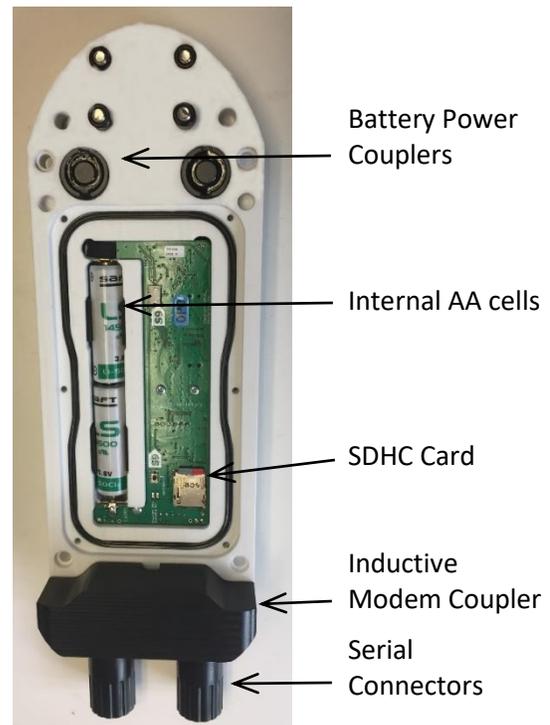
**Weight:** 2.0 kg in air

**Materials:** PET, PE, Titanium

**Environmental:**

**Operating Temperature:** -25 to +50°C

**Depth Rating:** 1000 meters



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