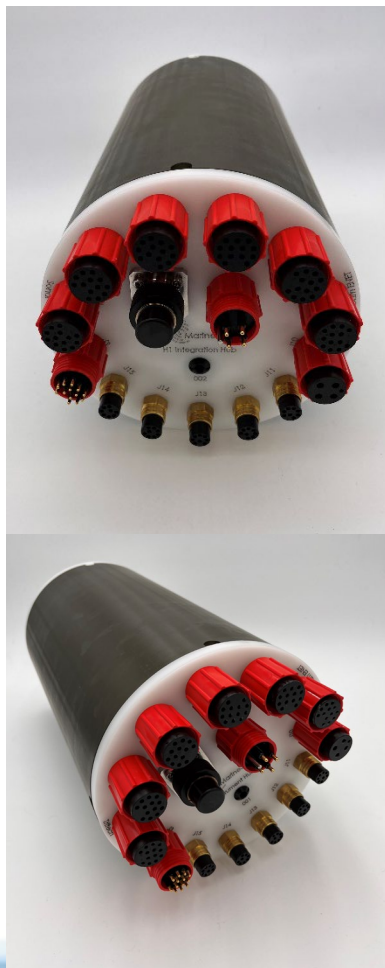
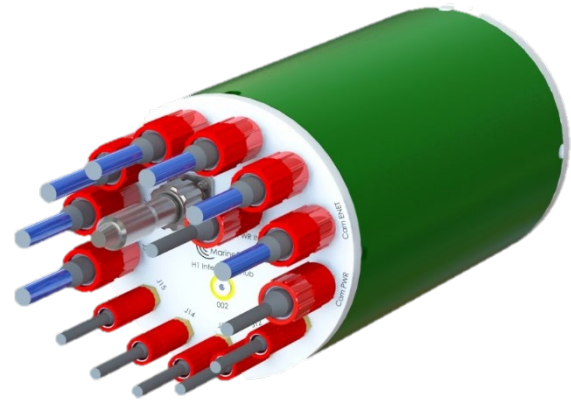


H1 – Integration Hub

Product Description

The MarineSitu H1 is a low-cost oceanographic instrument integration node. Ten individually controlled output ports can be configured to provide 12, 24, or 48 VDC, either Ethernet or serial comms, and a hardwire acquisition trigger. All data streams are synchronized and aggregated to a single 10 Gigabit connection to shore via fiber and/or Ethernet at either 48 VDC or 375 VDC. Key features are included to ensure survival without corrosion while maintaining a simple and elegant design to reduce system cost.



Benefits

- Proven design for long-term deployment survival
- Low-cost and user-friendly for simple system integration
- All output ports are individually configurable and monitored
- Support for up to 8 Ethernet and/or 8 serial devices

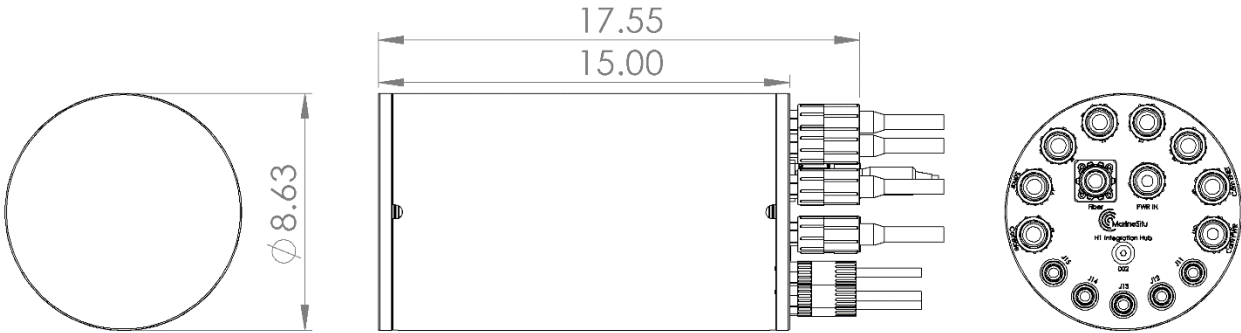
Features

- 4 single mode bidirectional fibers
- Power switching and monitoring on all output channels
- Up to 10 Gigabit bandwidth
- 9 axis accelerometer
- Health monitoring with voltage, current, temperature and humidity
- Double o-ring seals with monofilament retainer
- SAE-4 standard vent port
- Power indicator LED on back

Applications

- Ocean observatories
- Long-term deployments
- Marine energy monitoring
- Aquaculture
- Underwater vehicles and docking stations
- Research and development

Technical Specifications



Electrical	Voltage	48 or 375 VDC input and 5, 12, 24, or 48 VDC outputs
	Power	Up to 960 W
	Health Monitoring	Internal temperature, humidity, and output channel voltage and current monitoring
	Comms	4 single mode BiDi fibers and Ethernet input, 8 Ethernet and 8 configurable serial outputs
	Trigger Lines	Software controllable hardwire trigger for each output channel
	Bandwidth	10 Gigabit standard fiber or Ethernet
Mechanical	Housing Materials	Hard anodized aluminum cylinder, acetal endcaps
	Ports	Input: power, fiber and console, Output: 12x configurable power, Ethernet, and serial
	Connectors	Optolink fiber and SubConn 13 pin power and Ethernet and 8 pin micro circular
	Vent Plug	SAE-4
	Depth Rating	300 m
	Weight in Air	14.25 kg

MarineSitu is here to help with your next mission.

Please contact us for more information about our products and services.