



Product Description

The MarineSitu H1 is a low-cost oceanographic instrument integration node. It features ten individually controlled output ports, each configurable to supply 12, 24, or 48 VDC, support Ethernet or serial communications, or serve as a hardwired acquisition trigger. All data streams are synchronized and aggregated into a single 10 Gigabit connection to shore via fiber and/or Ethernet at either 48 VDC or 375 VDC. Key features ensure corrosion resistance while maintaining a simple, 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
- Supports up to 8 Ethernet and/or 8 serial devices



Applications

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

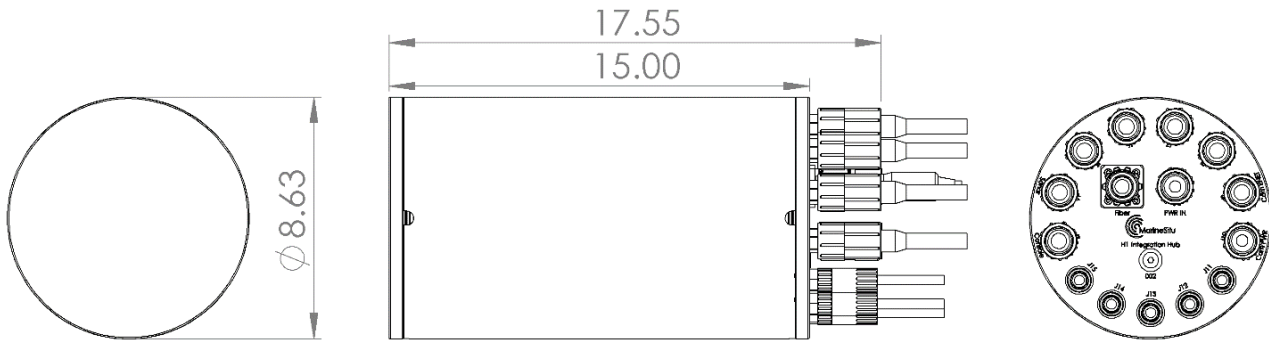
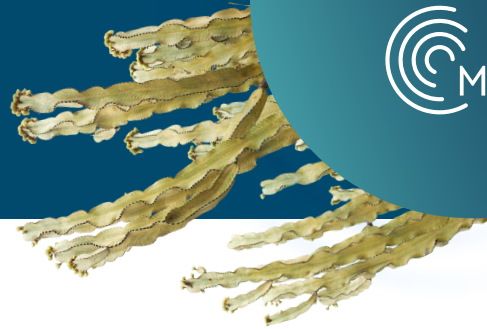


Features

- 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



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 hardware trigger for each output channel
	Bandwidth	10 Gigabit standard fiber or Ethernet
Mechanical	Housing Materials	Hard anodized aluminum cylinder, acetal end caps
	Ports	Input: power, fiber, and console; Output: 12x configurable power, Ethernet, and serial
	Connectors	Optolink fiber; SubConn 13-pin for 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.