

OCEANWORKS CABLED OCEAN OBSERVATORY

SCIENCE INSTRUMENT INTERFACE MODULE (SIIM)

PART NO: 500-A10000



SIIM Electronics



SIIM Architecture Pressure Vessels and ROV Mateable Connectors

The Science Instrument Interface Module (SIIM) connects to the node and provides data connections, DC power supply, and monitoring and control for science instruments. The SIIM is equipped with a 70 meter cable with an underwater mateable connector that is used for connecting the SIIM to the node. Instruments are connected to the SIIM by way of dry mate connectors. Instruments can be connected using either serial or Ethernet ports. The SIIM contains an Ethernet switch as well as serial to Ethernet converters. Each science port is individually monitored for power consumption (current) and for ground fault isolation. Each science port can be individually disabled and isolated from the network in the case of instrument or cabling failure. Pressure vessels are available in 316SS or 2205 Duplex Stainless in depth ratings up to 1000 meters.

OceanWorks International Corporation
3 – 1225 East Keith Road
North Vancouver, BC
Canada V7J 1J3
Tel: 1+604-986-5600
Fax: 1+604-986-7125



Website: www.oceanworks.cc

OceanWorks International, Inc.
1646 West Sam Houston Parkway N.
Houston, TX 77043
USA
Tel: 1+713-933-8000
Fax: 1+713-933-8006

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Features:

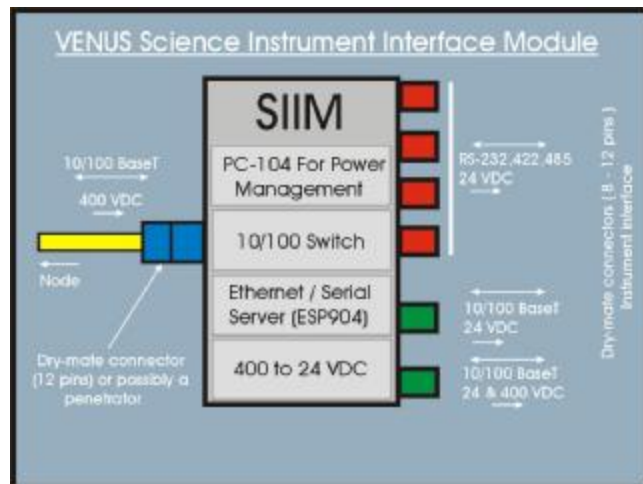
- Internal monitoring including:
 - All local power supplies
 - Internal pressure
 - Internal temperature
- 1 kW total power
- 4 Serial Interface (RS -232, RS-422 or RS-485) , 24V 20A Ports
- 1 Ethernet Interface, 24V 20A Port
- 1 Ethernet Interface, 24V 10A, 360V 8 A Port
- All ports have power monitoring including:
 - Ground Fault Current Monitoring +/- 1 mA
 - Current Monitoring
 - Voltage Monitoring

Options:

- Other DC Output Voltages
- Serial ports can be configured as Ethernet ports.



SIIM Mounted on Multi-Instrument Platform



Typical SIIM Architecture

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