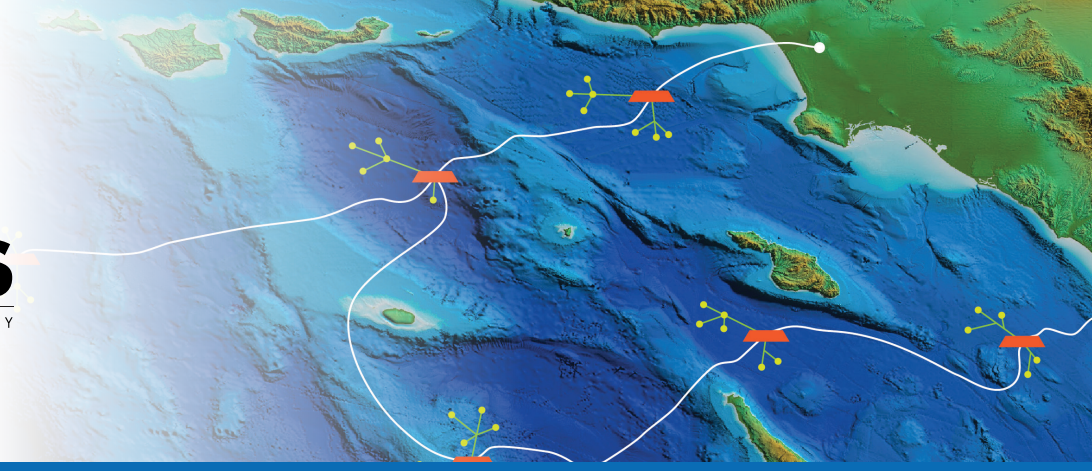
OCEAN SPECIALISTS

AN ADVANCED OCEAN SYSTEMS COMPANY



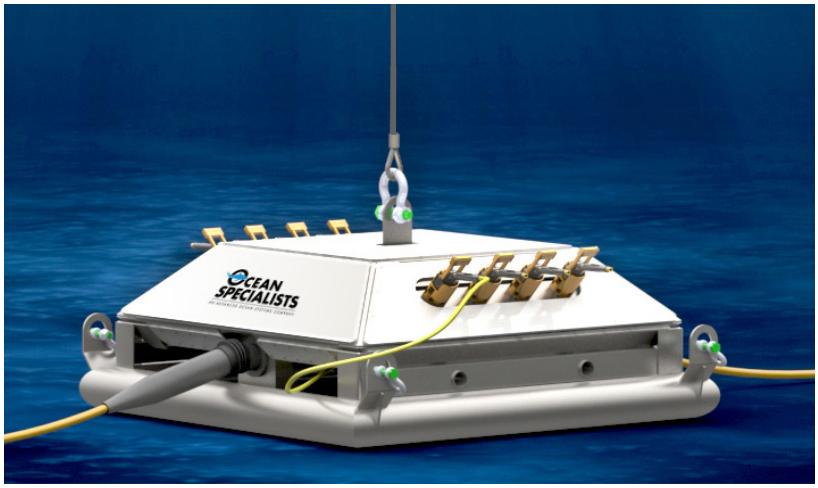
SUBSEA NODE

OceanHub

Subsea monitoring and control applications used by the science and energy industries require the dependable provision of data and power. OSI has developed OceanHub, a subsea data hub that enables common oceanographic sensors to be connected to a submarine cable, providing communications and power for long-term, in-situ observations.

OSI's OceanHub node combines proven components with common sensor packages, facilitating a rapid delivery and installation cycle. Consisting of a marine-grade aluminum frame and a titanium connector panel and pressure housings, the subsea node is operable to a depth of 3,000 meters, and features fully-managed industrial control devices with a web interface.

OSI's OceanHub is compatible with telecom cables, umbilicals, or PBOF via Field Installable Termination. The subsea node features ten instrument connectors, one input power connector, one input fiber optic connector and one sea earth connector.



APPLICATIONS

- Scientific observatories
- Oil/gas field instrumentation
- Renewable energy
- Tsunami and seismic warning systems
- Port/coastal security

SPECIFICATIONS

CONNECTIONS
10 instrument connectors
1 input power connector
1 input fiber optic connector
1 sea earth connector

COMPATIBILITY
Telecom cables, umbilicals, or PBOF via Field Installable Termination

INPUT POWER
1,200 to 1,800 VDC at less than 0.5 Amps
Optional constant current power at 1,020 mA

OUTPUT POWER
5 connectors with 24 VDC
5 connectors with 12 VDC
360 Watts maximum
Other configurations upon request

INSTRUMENT COMMUNICATIONS
4 connectors with 10/100BASE-T Ethernet and analog video
6 connectors with RS-232/RS-422

UPSTREAM COMMUNICATIONS
2 x 1000BASE-ZX Fiber Optic Ethernet

PHYSICAL DIMENSIONS
2.4 m x 2.4 m x 1.93 m
Weight in air: 1,160kg
Weight in water: 680kg

MATERIALS
Pressure housings: Titanium
Connectors: Titanium

OPERATING DEPTH
Standard: 3,000m
Optional: 1,000m

RELIABILITY
25 year design life with 5-10 year refurbishment interval
50,000 hour MTBF

CONTROL AND MANAGEMENT
Communications: Web interface and SNMP
Power: Fully managed industrial control devices with web interface.

ABOUT OCEAN SPECIALISTS (OSI)

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OSI is a leading subsea cable consulting and project management firm for telecommunications network solutions. With extensive hands-on experience in the commercial & economic feasibility analysis and the planning, design, implementation and management of subsea fiber optic networks, OSI helps clients to ensure their subsea cable network is designed in the most technically sound, cost efficient way possible.

Florida · Boston · Houston · Guam **+1 (772) 219-3000** **info@oceanspecialists.com**