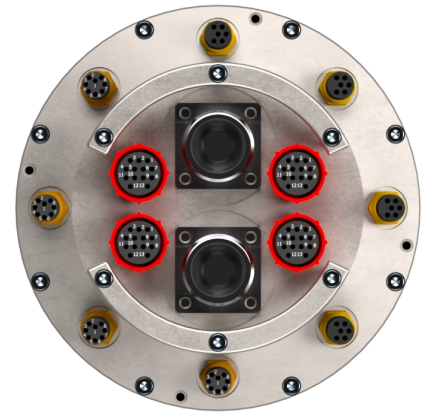


Zupt Mux Lite

ROV 10G Network Switch with Serial Ports

To modernize the survey multiplexor, Zupt built the 'Mux Lite.' Zupt's Mux Lite is simply a compact network switch with serial ports. Unlike conventional subsea multiplexers, this Mux Lite offers a simplified solution for scenarios where only a limited number of ports are required, making it a cost-effective and space-efficient choice. The user-friendly web interface eliminates the need for complex topside units; only a computer and 10GB ethernet switch on the surface vessel is needed for topside data communication.

As a subsea multiplexor, the Mux Lite provides reliable fiber optic data transfer through a single cable from subsea sensors to the surface. It also has an additional fiber port on the top of the subsea unit, allowing it to be daisy chained with other units to expand capabilities subsea.



Mux Lite Key Features:

- Small form factor
- Low weight
- Web controlled
- 10GB fiber connection
- 4 x 1GB ethernet connectors
- Redundant fiber ports
- Can be daisy chained
- Configurable power options
- E-fuse protected outputs
- Option for low latency IP cameras

Customizable mux to fit unique project needs

With reliability and redundancy.



Specifications - Subsea Unit

Mechanical

Housing height: 321 mm

Housing diameter: 236 mm

Estimated weight in air: 25.0 kg

Estimated weight in water: 18.0 kg

Material: Titanium

Max depth rating: 4000 m

Multiplexed Channels

Serial: Up to 8 configurable connections, RS232/RS422/RS485

Ethernet: Up to 4 connections, 10/100/1000 Base-T

Triggers: PPS, PTP, TTL

Connectors

8 x MCBH8F SubConn connectors for serial connections

4 x DFCR2013F for ethernet connections

1 or 2 connectors for power and 4 fiber paths

The optional second connector allows for daisy chaining

Transport

Hard shell case

Electrical

Supply voltage: 100-250 VAC 50/60 Hz

Output voltage: 48 VDC/300 W

24 VDC/600 W

12 VDC/300 W

Fiber

Fiber type: single mode 9/125 μ m

Number of available fiber paths: 4

Flux budget: >18dB

Configurable 10G SFP + transceivers

Enabling different umbilical lengths

CWDM 8 fiber channels

Monitoring

Temperature

Voltages and current draw

Power on/off feedback status

Optical loss

Optional Features

Second fiber connector

Topside unit for conventional connections

Daisy chain capabilities to expand the number of subsea interfaces

CWDM multiple channel multiplexor

Specifications - Optional Topside Unit

Mechanical

Dimensions: 19" rack mount, 2U high

Electrical

Supply Voltage: 110-240 VAC, 50/60 Hz

Transport

Hard shell case

Various

Physical/serial/ethernet ports

LEDs for link status indication

Monitoring

Voltage, current, and temperature

LEDs for status indication

Optional Features

LIM/GFD options for unique ground fault detection capabilities

