microTTU

Subsea Compact
Serial Multiplexor

microTTU is a flexible, multi-port, precisely timed subsea serial multiplexor designed for the harsh environment of ROV operations.

microTTU uses a single ROV serial channel to provide six additional channels or ports to add additional communications capability to any ROV, AUV or towfish.

microTTU has applications in:

Marine Construction

CTD, SVS Interfacing

ROV Operations

AUV or Towfish Operations

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Zupt delivers operationally aware inertial technologies to improve the productivity associated with high cost operations for oil and gas exploration and field development. These capabilities are offered and supported worldwide.

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Subsea Compact Serial Multiplexor

microTTU is a flexible, multi-port, precisely timed subsea serial multiplexor specifically designed for the harsh environment of ROV operations.

All data multiplexed at the seabed is available on the surface either on a physical COM port, or as a virtual COM port directly into other applications running on the same computer.

Each sensor port within the microTTU is fully configurable from the surface and allows for direct, transparent control of the remote sensor deployed on the ROV. Each channel is independently configurable to the required baud rate and parity settings. All configuration is stored in NVRAM. Software and hardware "break" commands are available to access sensor configuration.

CONFIGURE THE SYSTEM ONSHORE FOR QUICK INSTALLATION OFFSHORE.

All sensor data can be appended with a precise time tag, or it can be exported in exactly the same form as the original sensor data. A data logging option is also supplied within the surface software to allow individual channels to be logged to separate files.

6 RS232 or 4 RS232 & 2 RS422 — microTTU — 1 Serial Port

CONFIGURATION OPTIONS:

The uplink to the ROV is normally configured for RS232. The uplink can be delivered as RS422/RS485 if the unit is to be used in a long, hard wired configuration.

Inside the microTTU we have a total of six RS232 channels (3 wire Tx, Rx, SigGnd), or four RS232 and two RS422 channels (4 wire Tx+/- Rx+/-) available for connection to external sensors. The configuration of the microTTU sensor interface is limited to 13 pins for serial comms. A 16 pin connector is used on the "sensor" end of microTTU, 3 of these pins are used for power. Signal grounds are shared. Galvanic isolation is an available option with less channels through the end cap. Power is passed through microTTU.

STANDARD CONFIGURATION:

Sensor interfaces - serial and power
 6 RS232 ports
 24Vdc, up to 4A 12 Vdc, up to 1A

Uplink to ROV
 RS232 max 115,200 baud
 Input 16 to 30Vdc from ROV
 2W for microTTU - max 100W output for sensor power

Mechanical
 Depth rated to 4,000m
 Uplink bulkhead connector - 8 pin male - MCBH8M
 Sensor bulkhead connector - 16 pin female, MCBH16M
 Length 305mm (12 in.)
 Diameter 50mm (2 in.)
 Weight 2.6kg (5.6 lb) air / 2 kg (4.4 lb) water

Add additional RS232 or RS422/RS485 channels
onto any ROV.