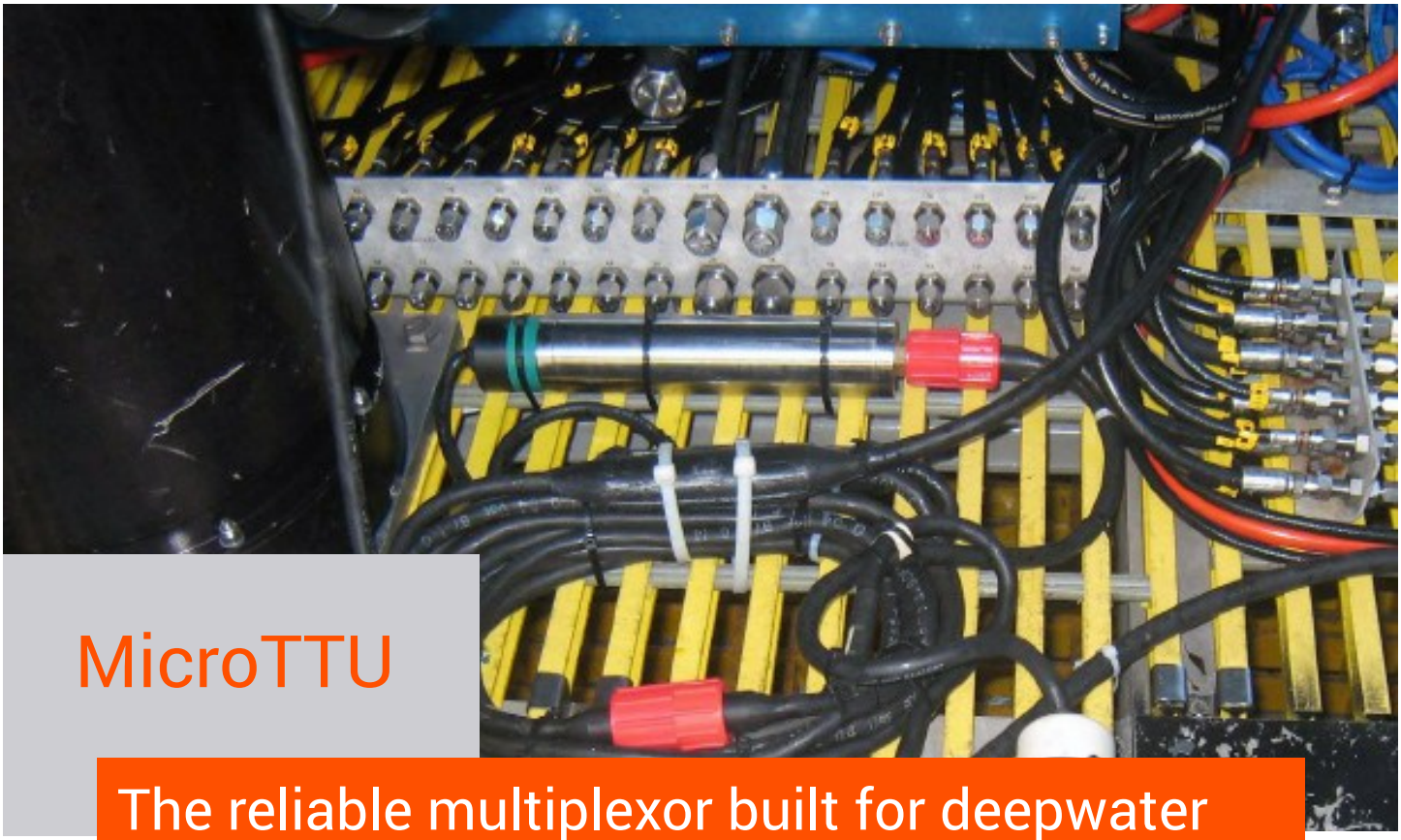

MicroTTU

The reliable multiplexor built for deepwater sensor control

The microTTU is a compact subsea serial multiplexor that turns one ROV serial channel into six additional channels for added comms on ROV, AUV, or towfish operations. It is built for harsh subsea use and is depth rated to 4,000 m. Data multiplexed subsea is available topside on a physical COM port or as a virtual COM port for other applications.

Each sensor port is fully configurable from the surface with independent baud rate and parity, and settings stored in NVRAM. Operators have transparent control of sensors, plus software and hardware break commands. Data can be appended with precise time tagging or passed through unchanged, and the surface software can log individual channels to separate files.

Configuration options include six RS232 channels or a mix of four RS232 and two RS422. The uplink is normally RS232, with RS422 or RS485 available for long hard-wired use. Key specs: input 16 to 30 Vdc, about 2 W for the unit, up to 100 W available for sensor power, depth rating 4,000 m, connectors MCBH8M (uplink) and MCBH16M (sensors), length 305 mm, diameter 50 mm, weight 2.6 kg in air and 2 kg in water.

Reliable, efficient communications

for every subsea mission.

Specifications:

- **Depth rating:** 4,000 m
- **Power input:** 16–30 VDC
- **Power draw:** ~2 W for unit, up to 100 W available for sensors
- **Uplink options:** RS232 standard; RS422 or RS485 available
- **Dimensions:** 305 mm length × 50 mm diameter
- **Weight:** 2.6 kg in air, 2.0 kg in water
- **Connectors:** MCBH8M (uplink), MCBH16M (sensors)

Highlighted Features:

- Six configurable serial sensor ports (RS232 standard, optional RS422)
- Transparent sensor communication with surface control
- Independent baud rate and parity settings per port
- Break command support (software and hardware)
- NVRAM storage for saved configurations
- Time-tagging available for accurate data synchronization
- Surface software with per-channel logging

Application Advantages:

- Expands ROV, AUV, or towfish capability with minimal hardware
- Streamlined integration through virtual or physical COM ports
- Compact, lightweight design reduces vehicle payload impact
- Reliable subsea performance with low power requirements