ROVMUX

STR ROVMUX provides an advanced solution to the challenges of integrating the ever expanding multitude of sensor types required for ROV survey and inspection operations.

The system operates with exceptional levels of technology density supporting higher numbers of sensors than previously possible. Data communication is provided via a 4 Gbps fibre-optic link, supporting Gigabit Ethernet (GbE), Serial RS232 & RS485 and TTL communications for up to 21 sensors.

High power output is possible though its use of ultra high efficiency power and control systems, innovative cooling and thermal management systems ensure reliable operation at maximum power. Advanced power management circuits allow the most challenging loads to be enabled with ease and allow fully remote management, control and electronic fusing.

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The ROVMUX has been designed for reliable operation in harsh conditions, the standard titanium housing is capable of operation at 6000 m and supports long duration deployment without risk of corrosion. It benefits from robust metal shell connectors with fully open face pressure rating.

The system has been designed for quick integration into existing ROV systems with an intuitive 12" touch screen LCD (liquid crystal display) display with the ability to be controlled via our integrated web Graphical User Interface (GUI).

Key features

- High bandwidth fibre-optic communications
- Very high density functionality
- Advanced power management technology
- High efficiency power supply technology
- Fully configurable eFuses and power reporting
- Ground fault detection
- Galvanic isolation

Key benefits

- Ultra-compact footprint
- High count 1000 / 100 / 10 Mbps Ethernet, Serial RS232 & RS485 connectivity
- Increased survey sensor payload
- Advanced internal diagonstics versatile and user friendly
- Design tested with industry standard Survey Sensors
- Standardised connectors and pinouts with open face pressure to full ocean depth

TECHNICAL SPECIFICATIONS

PROPERTIES	DESCRIPTION
Power output	1000 W
Input voltage	80 – 264 V AC
Output voltage	48 V, 24 V DC 80 V – 264 V AC
Output power features	• Switchable outputs • Current / power measurment • Fully configurable with remote reset • Ground fault detection • High energy load management • Highly configurable
Ethernet channels	3 x independent gigabit (1000 / 100 / 10 Mbps) 6 x fast ethernet (100 / 10 Mbps)
Serial channels	10 x configurable - Serial RS232 & RS485
TTL triggers	9 x output 9 x input
Sensor connector type 1	• Quantity x 3 • Rampart RP5FCR-K19 • 48 V output @ 8 A • 24 V output @ 5 A • Gigabit ethernet (1000 / 100 / 10 Mbps Ethernet) • TTL trigger output • TTL trigger input
Sensor connector type 2	• Quantity x 6 • Rampart RP5FCR-K19 • 48 V output @ 5 A • 24 V output @ 5 A • 10 / 100Mbps Ethernet • TTL trigger output • TTL trigger input
Sensor connector type 3	• Quantity x 1 • Rampart RP5FCR-K14 • 2 x AC output @ 3 A • RS232
Material of construction	Titanium / aluminium
Safety features	• Galvanic isolation • Over current protection • Output fault monitoring • Ground fault detection • Thermal management • Power management • Electronic fuse outputs • Rapid status monitoring
Depth rating	6000 m / 3000 m
Size	535 x 169 L x D (mm)
Weight	22.5 kg / 15 kg

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