

RTS Gen 5 MUX

ROV and survey multiplexer



The Gen 5 MUX has rapidly manifested itself as the preferred high end ROV multiplexer solution in the industry. The MUX covers the increasing demand for accurate, flexible and robust subsea data transfer combined with user-friendly interfacing. Offered models and options allow for supplementary functions such as Composite and HD video, fibre assembly adaptors and channel customization. The innovative titanium subsea housing provides an extremely reliable and easily accessible data hub for the challenging conditions of the marine environment.

Specifications

Product	RTS Gen 5 MUX
Country of origin	Norway
Manufacturer	Rental Technology & Services AS

Main features

- Compact size & low weight
- No latency
- Inertial Navigation Interface
- Compatible with every known multibeam system
- PPS Timing
- Ground Fault Detection
- Ethernet 1G & 10/100Mb
- 3G HD Video
- Composite Video

Channels

3000TI	3000TI-2HD	3000TI-3HD	3000TI-4CV
6 x RS232, 24 VDC	6 x RS232, 24 VDC	6 x RS232, 24 VDC	4 x Composite Video, RS232, 24 VDC
2 x RS422/485, 24 VDC	2 x HD Video, RS232, 24 VDC	3 x HD Video, RS232, 24 VDC	2 x RS232, 24 VDC
2 x RS232, 110/240 VAC	2 x RS232, 110/240 VAC	2 x RS232, 110/240 VAC	2 x RS422/485, 24 VDC
2 x 10/100 Mb, 24/48 VDC	2 x 10/100 Mb, 24/48 VDC	1 x 10/100 Mb, 24/48 VDC	2 x RS232, 110/240 VAC
2 x 1 Gb, 24/48 VDC	2 x 1 Gb, 24/48 VDC	2 x 1 Gb, 24/48 VDC	2 x 10/100 Mb, 24/48 VDC
1 x Dedicated INS Port	1 x Dedicated INS Port	1 x Dedicated INS Port	2 x 1 Gb, 24/48 VDC
1 x AC Input, 90-260 VAC	1 x AC Input, 90-260 VAC	1 x AC Input, 90-260 VAC	1 x Dedicated INS Port 1 x AC Input, 90-260 VAC

Power

Surface Unit Voltage requirement Power requirement	90 - 264 VAC 100W Max
Subsea Unit Voltage requirement Power requirement	90 - 264 VAC 900W Max (+ AC output)

Environmental

Surface Unit Operating ambient temperature Depth rating	-15°C to +45°C 8,5 kg ± 1,0 kg
Subsea Unit Operating ambient temperature Depth rating Weight in air Weight in water Housing	-2°C to +35°C 3000m 32kg ± 2,0 kg 15kg ± 2,0 kg Titanium

Other

- Remote control software
- Individual voltage and current monitor for each channel
- Internal humidity and temperature monitor
- Water ingress detection
- GFD (Ground fault detection)

Connectors

- MCBH-6F for Serial comms & DC
- MCBH-6S for Serial comms & AC
- MCBH-8F for Ethernet & DC
- 5506-2013 for Ethernet & DC
- SAIV 05-03 Coax HD-Video & DC
- 5506-2003 for Power input

Options

- Schilling adaptor POD for fibre assembly
- Channel modifications for Coda Echoscope, Pangeo and Kongsberg EM 3002
- 4 x Composite Video channels on HD models
- All serial channels capable of up to 900 kbps
- Serial INS channel
- Plugable fibre assembly
- Ethernet SWITCH

Dimensions

Surface Unit	134mm x 374mm x 483mm (19" panel, 3U)
Subsea Unit	435mm x Ø 230mm

