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 for the challenging conditions of the marine environment.



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







RTS Gen 5 MUX MKIII

TECHNICAL SPECIFICATIONS

2 x RS422/485, 24 VDC		3000TI	3000TI-2HD	30000TI-3HD	3000TI-4CV
2 4 VDC	Channels	6 x RS232, 24 VDC	6 x RS232, 24 VDC	6 x RS232, 24 VDC	4 x Composite Video, RS232, 24 VDC
2 x 10/100 Mb, 24/48 VDC		2 x RS422/485, 24 VDC			2 x RS232, 24 VDC
2 x 1 Gb, 24/48 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
1 x Dedicated INS Port		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
1 x AC Input, 90-260 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
Surface Unit: Voltage requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 100W Max Subsea Unit: Voltage requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 900W Max (+ AC output) Power requirement 900W Max (+ AC output) Surface Unit: Weight: 8,5 kg ± 1.0 kg Subsea Unit: Weight: 8,5 kg ± 1.0 kg Subsea Unit: Weight: 10 + 35°C Operating ambient temperature -2°C to +35°C Depth rating 3000m Weight in water 15kg ± 2,0 kg Housing Titanium Other Connectors • Remote control software • MCBH-6F for Serial comms & DC • Individual voltage and current monitor for each channel MCBH-6F for Serial comms & AC • Internal humidity and temperature monitor • MCBH-8F for Serial comms & AC • Internal humidity and temperature monitor • MCBH-8F for Serial comms & AC		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
Surface Unit: Voltage requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 100W Max Subsea Unit: Voltage requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Power requirement 90 - 264 VAC or 120 - 370 VDC Weight: 90 - 264 VAC or 120 - 370 VDC					1 x AC Input, 90-260 VAC
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Power requirement 100W Max		Surface Unit:			
Subsea Unit: Voltage requirement Your gever gev		Voltage requirement		90 - 264 VAC or 120 - 370 VDC	
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Environmental Surface Unit: Operating ambient temperature Weight: Operating ambient temperature		Subsea Unit:			
Surface Unit: Operating ambient temperature Veight: Operating ambient temperature Veight: Operating ambient temperature Opera				90 - 264 VAC or 120 - 370 VD	0
Surface Unit: Operating ambient temperature Operating ambient temperature Weight: Subsea Unit: Operating ambient temperature Operating ambientemperature Operating ambient temperature Operating ambient temperat				900W Max (+ AC output)	
Operating ambient temperature Weight: Weight: Weight: 8,5 kg ± 1,0 kg Subsea Unit: Operating ambient temperature -2°C to +35°C Depth rating Weight in air 3000m Weight in water Housing Connectors • Remote control software • Individual voltage and current monitor for each channel • Internal humidity and temperature monitor • Water ingress detection • GFD (Ground fault detection) • Schilling adaptor POD for fibre assembly • Channel modifications for Coda Echoscope, Pangeo and Kongsberg EM 3002 • At Composite Video channels capable of up to 900 kbps • Serial INS channel	Environmental				
Weight: Weight: 8.5 kg ± 1.0 kg Subsea Unit: Operating ambient temperature -2°C to +35°C Depth rating 3000m Weight in air 32kg ± 2.0 kg Weight in water 15kg ± 2.0 kg Housing Titanium Other Connectors • Remote control software • MCBH-6F for Serial comms & DC • Individual voltage and current monitor for each channel • MCBH-8F for Ethernet & DC • Internal humidity and temperature monitor • MCBH-8F for Ethernet & DC • Water ingress detection • \$506-2013 for Ethernet & DC • Water ingress detection • \$506-2013 for Ethernet & DC • SAIV 05-03 Coax HD-Video & DC • 5506-2003 for Power input Options 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		Surface Unit:			
Subsea Unit: Operating ambient temperature Operh rating Weight in air Weight in water Housing Other Connectors Remote control software Individual voltage and current monitor for each channel Internal humidity and temperature monitor Water ingress detection GFD (Ground fault detection) GFD (Ground fault detection) Connectors Solo-2013 for Ethernet & DC Solo-2003 for Power input Options Schilling adaptor POD for fibre assembly Channel modifications for Coda Echoscope, Pangeo and Kongsberg EM 3002 A x Composite Video channels on HD models. All serial channels capable of up to 900 kbps Serial INS channel		Operating ambient temperature		-15°C to +45°C	
Operating ambient temperature Depth rating Weight in air Weight in water Housing Connectors Remote control software Individual voltage and current monitor for each channel Internal humidity and temperature monitor Water ingress detection GFD (Ground fault detection) Schilling adaptor POD for fibre assembly Channel modifications for Coda Echoscope, Pangeo and Kongsberg EM 3002 A x Composite Video channels on HD models. All serial channels capable of up to 900 kbps Serial INS channel		Weight:		Weight: 8,5 kg ± 1,0 kg	
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Other Connectors Remote control software Individual voltage and current monitor for each channel Internal humidity and temperature monitor Water ingress detection GFD (Ground fault detection) Schilling adaptor POD for fibre assembly Channel modifications for Coda Echoscope, Pangeo and Kongsberg EM 3002 All serial channels capable of up to 900 kbps Serial INS channel		Weight in water		$15 \text{kg} \pm 2.0 \text{ kg}$	
Remote control software Individual voltage and current monitor for each channel Internal humidity and temperature monitor Water ingress detection GFD (Ground fault detection) SAIV 05-03 Coax HD-Video & DC SAIV 05-03 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		Housing		Titanium	
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Internal humidity and temperature monitor Water ingress detection GFD (Ground fault detection) SAIV 05-03 Coax HD-Video & DC SOME SAIV 05-03 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		Remote control software		MCBH-6F for Serial comms & DC	
Water ingress detection GFD (Ground fault detection) 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		Individual voltage and current monitor for each channel		MCBH-6S for Serial comms & AC	
GFD (Ground fault detection) 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		Internal humidity and temperature monitor		MCBH-8F for Ethernet & DC	
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 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 				• 5506-2003 for Power input	
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 4 x Composite Video channels on HD models. All serial channels capable of up to 900 kbps Serial INS channel 		Channel modifications for Coda Echoscope, Pangeo and Kongsberg EM 3002			
 All serial channels capable of up to 900 kbps Serial INS channel 					
Serial INS channel					
		All serial channels capable of up to 900 kbps			
Plugable fibre assembly		 Serial INS channel 			
		 Plugable fibre assembly 			

Dimensions

 Surface Unit:
 134mm x 374mm x 483mm (19" panel, 3U)

 Subsea Unit:
 435mm x Ø 230mm

RTS is a supplier of engineering solutions, equipment rental, product sales and personnel. We are based in Karmøy in south-west Norway, close to the main oil bases. With our wide range of equipment and personnel, we offer complete solutions to the subsea industry. Key words are positioning, environmental, hydrographic, logging, PC and video products.

• Ethernet SWITCH