RTS Gen 6 Mux **Standard**

The next generation survey multiplexer

With 15 years of experience with the Gen 5 Mux, and previous generations of sensor interface products, RTS is now developing the next generation survey multiplexer. The Gen 6 is a redesign of the Gen 5, from the ground, to improve reliability, performance, and service friendliness of the unit.
The unit is easily operated from the topside frontpanel or remotely via the integrated web interface.

The new RTS Gen 6 comes with:

- 19 channels
- 3 x HD SDI Video as standard
- 9 x Ethernet
- Software resettable fuse on every channel
- 1200 W DC power
- Remote operation from web interface
- 3000 meter depth rating
- Service friendly
- Same compact size as the Gen 5

This product is in development and the information contained in this document is subject to change without notice.

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TECHNICAL SPECIFICATION

Fiber interface			
	Mounted fiber assembly. Easy integration with all standard ROVs		
Channels	**Type**	**Power output**	**Connector**
	3 x HD SDI video with RS232	24 VDC	Saiv 05-03 Coax
	6 x Serial RS232 with PPS/PULSE	24 VDC	Seacon MCBH6F
	1 x Serial RS232		Seacon MCBH6F Special
	4 x 10/100 Mb/s ethernet general purpose	24/48 VDC user selectable	Seacon MCBH8F Special
	1 x INS channel with 10/100 Mb/s ethernet and 2 x RS232 PPS in and PPS/PULSE out	2 x 24 VDC for INS and DVL	SeaKing K19 FCR
	2 x 1 Gb/s ethernet general purpose	24/48 VDC user selectable	SeaKing K19 FCR
	2 x 1 Gb/s ethernet for multibeam	24/48 VDC user selectable	SeaKing K19 FCR
Power subsea unit			
	AC Input	90 - 264 VAC 50/60 Hz	
	24 VDC output	650 W nominal with 800 W peak	
	48 VDC output	650 W nominal with 800 W peak	
Environmental subsea unit			
	Size	Ø 230mm x 454mm	
	Weight in air	34.2 kg	
	Depth rating	3000 meter	
	Housing	Titanium	
Topside features			
	Redesigned frontpanel with larger display		
	Serial channels on RJ45		
	Remote control via self hosted web interface		
Additional features			
	Power monitor and software resettable fuse on every channel		
	Advanced diagnostics system		
	Internal network switch with 8 x 1 Gb/s copper ports, 2 x 1 Gb/s backbone		

CHANNEL MATRIX

Channel	Function	Serial interface	Ethernet interface	Additional interface	Power output	Output voltage	Subsea connector
Channel 1	Serial + HDSDI Video	RS232			70 W	24 V	SAIV 05-04 Coax
Channel 2	Serial	RS232					Seacon MCBH-6F Special
Channel 3	Serial	RS232		PPS/PULSE	70 W	24 V	Seacon MCBH6F
Channel 4	Serial	RS232		PPS/PULSE	70 W	24 V	Seacon MCBH6F
Channel 5	Serial + HDSDI Video	RS232			70 W	24 V	SAIV 05-04 Coax
Channel 6	Serial	RS232		PPS/PULSE	70 W	24 V	Seacon MCBH6F
Channel 7	Serial	RS232		PPS/PULSE	70 W	24 V	Seacon MCBH6F
Channel 8	Serial	RS232		PPS/PULSE	70 W	24 V	Seacon MCBH6F
Channel 9	Serial	RS232		PPS/PULSE	70 W	24 V	Seacon MCBH6F
Channel 10	Serial + HDSDI Video	RS232			70 W	24 V	SAIV 05-04 Coax
Channel 11	Ethernet		10/100 Mb/s		70/100 W	24/48 V	Seacon MCBH8F Special
Channel 12	Ethernet		10/100 Mb/s		70/100 W	24/48 V	Seacon MCBH8F Special
Channel 13	Ethernet		10/100 Mb/s		70/100 W	24/48 V	Seacon MCBH8F Special
Channel 14	Ethernet		10/100 Mb/s		70/100 W	24/48 V	Seacon MCBH8F Special
Channel 15	INS	2 x RS232	10/100 Mb/s	2 x PPS/PULSE	70/70 W	2 x 24 V	SeaKing K19FCR
Channel 16	Ethernet	RS232	1 Gb/s	PPS/PULSE	140/290 W	24/48 V	SeaKing K19FCR
Channel 17	Ethernet	RS232	1 Gb/s	PPS/PULSE	140/290 W	24/48V	SeaKing K19FCR
Channel 18	MBE	RS232	1 Gb/s	PPS/PULSE	70/290 W	24/48 V	SeaKing K19FCR
Channel 19	MBE	RS232	1 Gb/s	PPS/PULSE	70/290 W	24/48 V	SeaKing K19FCR

Power In	G5506-2003
Optical	Mounted fiber assembly