

RTS Gen 6 Mux

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
- 3x HDSDI Video as standard
- 9x Ethernet
- Software resettable fuse on every channel
- Ground fault detection
- 1200W DC power
- Remote operation from web interface
- 4500 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.

Rental Technology & Services Sjøenvegen 52, 4270 Åkrehamn, Norway Tel: +47 52 81 47 60 sales@rts.as
Unit 2a, Woodside Road, Bridge of Don, Aberdeen, AB23 8EF, UK Tel: +44 (0) 1224 907530 sales.uk@rts.as



TECHNICAL SPECIFICATION

Fiber interface			
Optical connector for pluggable fiber assembly. Easy integration with all standard ROVs			
Channels	Type	Power output	Connector
	3 x 4k/HD SDI video w/RS232	24VDC	Saiv 05-03 Coax
	6 x Serial RS 232 with PPS(2 x user selectable RS485)	24VDC	Seacon MCBH-6F
	1 x Serial RS232	AC passthrough	Seacon MCBH-6F Special
	3 x 10/100 MBit Ethernet general purpose	24VDC/48VDC user selectable	Seacon MCBH-8F
	1 x INS channel w/10/100 Mbit ethernet and 2xRS232 PPS in and PPS out	2 x 24VDC for INS and DVL	Seacon MINL 19 pin
	2 x 1000 Mbit Ethernet general purpose	24VDC/48VDC user selectable	Seacon MINK 19 pin
	2 x 1000 Mbit Ethernet for Multibeam	24VDC/48VDC user selectable	Seacon MINK 19 pin
Power subsea unit			
	AC Input	85-305 VAC 50/60 Hz	
	DC Input	170-300 VDC	
	24 VDC output	600W nominal with 800W peak	
	48 VDC output	600W nominal with 800W peak	
Enviromental subsea unit			
	Size	Ø230mm x 435mm	
	Weight in air	30 kg	
	Depth rating	4500 meter	
	Housing	Titanium	
Topside features			
	Redesigned frontpanel with larger display		
	Serial channels on RJ45		
	Remote control via web interface		
Additional features			
	Power monitor and software resettable fuse on every channel		
	Advanced diagnostics system		
	Ground fault detection		
	Internal network switch with 8x 1000MBit copper ports, 2.5 GBps backbone		
	All commonly used equipment will be tested and sertified with the Gen 6 to ensure a smooth transition from previous multiplexer generations		

CHANNEL MATRIX

Channel	Function	Serial interface	Ethernet interface	Additional interface	Power output [W]	Output voltage	Subsea connector
Channel 1	Serial + HDSDI Video	RS232			50	24V	SAIV 05-04 Coax
Channel 2	Serial	RS232				110VAC	Seacon MCBH-6F
Channel 3	Serial	RS232		PPS	50	24V	Seacon MCBH-6F
Channel 4	Serial	RS232		PPS	50	24V	Seacon MCBH-6F
Channel 5	Serial + HDSDI Video	RS232			50	24V	SAIV 05-04 Coax
Channel 6	Serial	RS232		PPS	50	24V	Seacon MCBH-6F
Channel 7	Serial	RS232		PPS	50	24V	Seacon MCBH-6F
Channel 8	Serial	RS232/RS485		PPS	50	24V	Seacon MCBH-6F
Channel 9	Serial	RS232/RS485		PPS	50	24V	Seacon MCBH-6F
Channel 10	Serial + HDSDI Video	RS232			50	24V/48V	
Channel 11	Ethernet		100 Mbit		50	24V/48V	Seacon MCBH-6F
Channel 12	Ethernet		100 Mbit		50	24V/48V	Seacon MCBH-6F
Channel 13	Ethernet		100 Mbit		50	24V/48V	Seacon MCBH-6F
Channel 14	Ethernet		100 Mbit		50	24V/48V	Seacon MCBH-6F
Channel 15	INS	2xRS232	100 Mbit	2xPPS	100	2x24V	Seacon MINK19FCR
Channel 16	Ethernet	RS232	1 Gbit	PPS	100	24V/48V	Seacon MINK19FCR
Channel 17	Ethernet	RS232	1 Gbit	PPS	100	24V/48V	Seacon MINK19FCR
Channel 18	MBE	RS232	1 Gbit	PPS	200	24V/48V	Seacon MINK19FCR
Channel 19	MBE	RS232	1 Gbit	PPS	200	24V/48V	Seacon MINK19FCR

Power In	Burton 2003
Optical	