

# RTS Gen 6 Mux Standard HD

## The next generation survey multiplexer

With 15 years of experience with the Gen 5 Mux, and previous generations of sensor interface products, RTS brings you 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 05-04 Coax       |
|   | 6 x Serial RS232 with PPS/PULSE (2 x RS485 software selectable)              | 24 VDC                        | Seacon MCBH6F         |
|   | 1 x Serial RS232   | 100/240 VAC                   | 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, 2 x RS232, PPS/PULSE and PULSE IN | 2 x 24 VDC for INS and DVL    | SeaKing K19 FCR       |
|   | 2 x 10/100/1000 Mb/s ethernet general purpose                                | 24/48 VDC user selectable     | SeaKing K19 FCR       |
|   | 2 x 1000 Mb/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 230 mm x 454 mm             |                       |
|   | 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 + HSDI Video | RS232            |                    |                      | 70 W         | 24 VDC         | SAIV 05-04 Coax        |
| Channel 2       | Serial + AC Out     | RS232            |                    |                      |              | 110/240 VAC    | Seacon MCBH-6F Special |
| Channel 3       | Serial              | RS232/RS485      |                    | PPS/PULSE            | 70 W         | 24 VDC         | Seacon MCBH6F          |
| Channel 4       | Serial              | RS232/RS485      |                    | PPS/PULSE            | 70 W         | 24 VDC         | Seacon MCBH6F          |
| Channel 5       | Serial + HSDI Video | RS232            |                    |                      | 70 W         | 24 VDC         | SAIV 05-04 Coax        |
| Channel 6       | Serial              | RS232            |                    | PPS/PULSE            | 70 W         | 24 VDC         | Seacon MCBH6F          |
| Channel 7       | Serial              | RS232            |                    | PPS/PULSE            | 70 W         | 24 VDC         | Seacon MCBH6F          |
| Channel 8       | Serial              | RS232            |                    | PPS/PULSE            | 70 W         | 24 VDC         | Seacon MCBH6F          |
| Channel 9       | Serial              | RS232            |                    | PPS/PULSE            | 70 W         | 24 VDC         | Seacon MCBH6F          |
| Channel 10      | Serial + HSDI Video | RS232            |                    |                      | 70 W         | 24 VDC         | SAIV 05-04 Coax        |
| Channel 11      | Ethernet            |                  | 10/100 Mb/s        |                      | 70/100 W     | 24/48 VDC      | Seacon MCBH8F Special  |
| Channel 12      | Ethernet            |                  | 10/100 Mb/s        |                      | 70/100 W     | 24/48 VDC      | Seacon MCBH8F Special  |
| Channel 13      | Ethernet            |                  | 10/100 Mb/s        |                      | 70/100 W     | 24/48 VDC      | Seacon MCBH8F Special  |
| Channel 14      | Ethernet            |                  | 10/100 Mb/s        |                      | 70/100 W     | 24/48 VDC      | Seacon MCBH8F Special  |
| Channel 15      | INS + EXT           | 2 x RS232        | 10/100 Mb/s        | PPS/PULSE + PULSE IN | 70/70 W      | 2 x 24 VDC     | SeaKing K19FCR         |
| Channel 16      | Ethernet            | RS232            | 10/100/1000 Mb/s   | PPS/PULSE            | 140/290 W    | 24/48 VDC      | SeaKing K19FCR         |
| Channel 17      | Ethernet            | RS232            | 10/100/1000 Mb/s   | PPS/PULSE            | 140/290 W    | 24/48 VDC      | SeaKing K19FCR         |
| Channel 18      | MBE                 |                  | 1000 Mb/s          | PPS/PULSE            | 70/290 W     | 24/48 VDC      | SeaKing KX11FCR        |
| Channel 19      | MBE                 |                  | 1000 Mb/s          | PPS/PULSE            | 70/290 W     | 24/48 VDC      | SeaKing KX11FCR        |
| <b>Power In</b> |                     |                  |                    |                      |              |                | G5506-2003             |
| <b>Optical</b>  |                     |                  |                    |                      |              |                | Mounted fiber assembly |