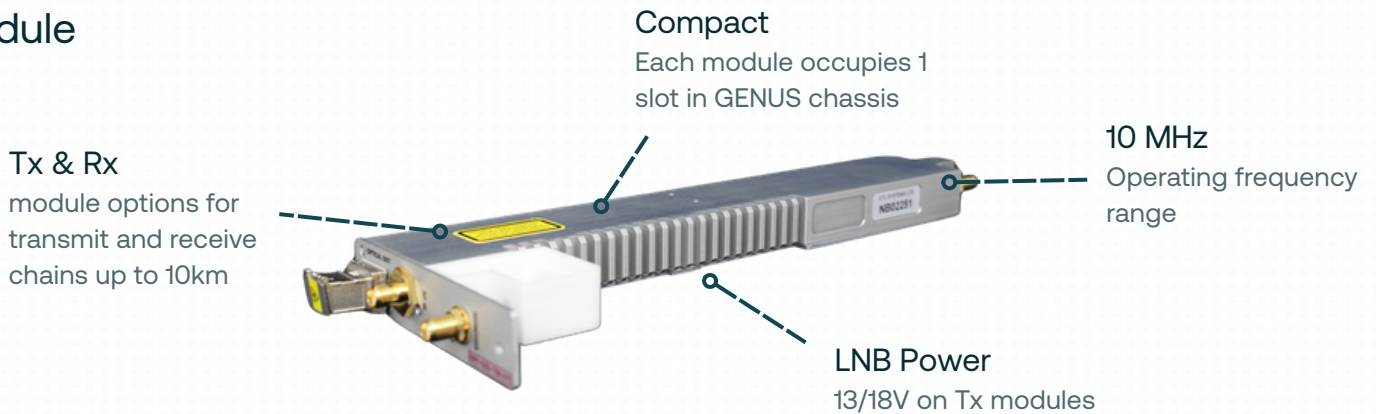


# 10MHz GENUS StingRay RF over Fibre module

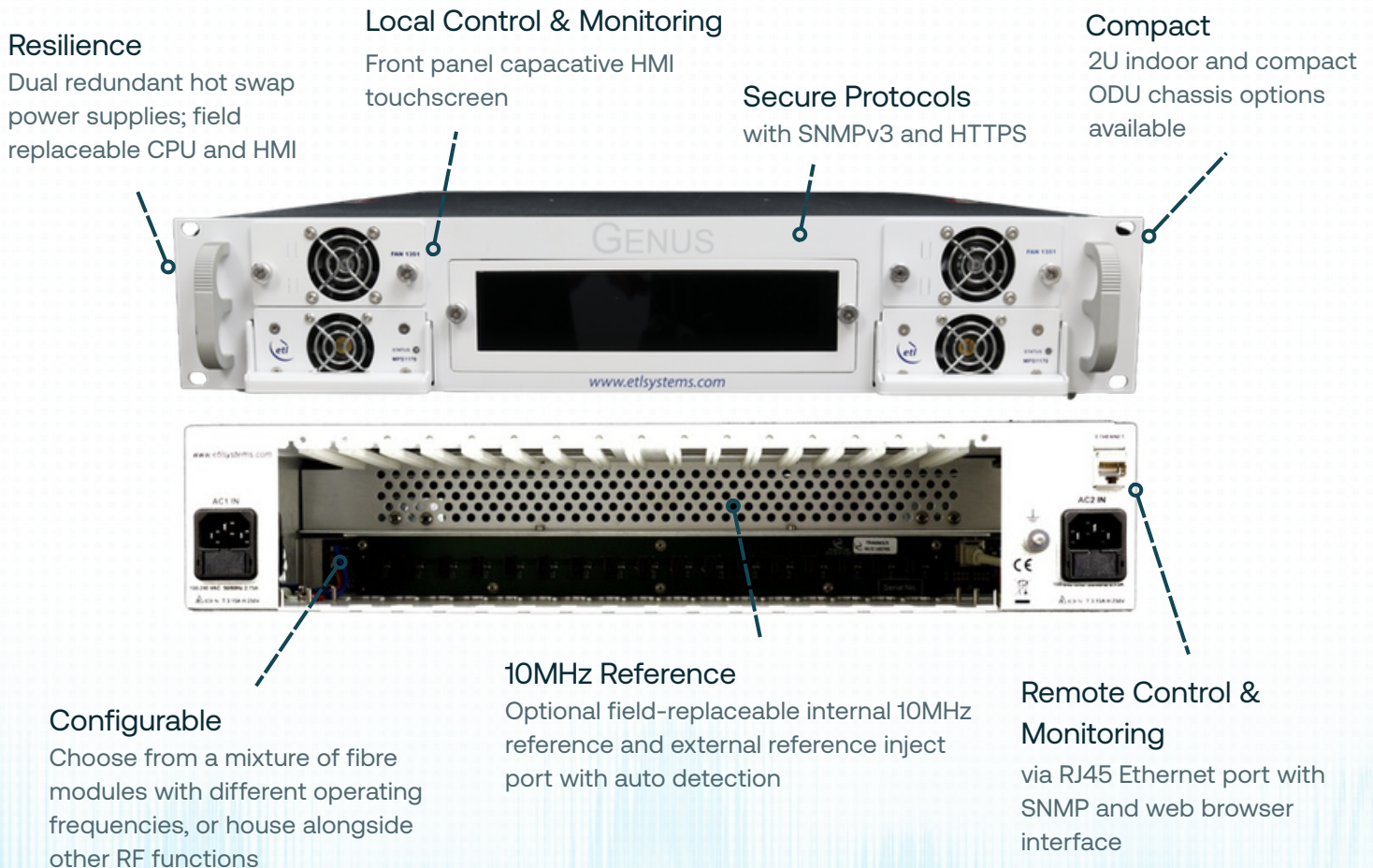
With ultra low phase noise and 10km nominal range.

StingRay Broadband Transmit and Receive RF Over Fibre modules to fit Genus 2U chassis. The transmit module can provide LNB power 13/18VDC, 22kHz tone up to 500 mA. When fitted with a 10 MHz distributing module the TX/RX module can inject an external or internal 10 MHz tone onto the broadband feed.

## Module



## Chassis





| RF Parameters                          |                                                                            |                                                  |
|----------------------------------------|----------------------------------------------------------------------------|--------------------------------------------------|
| Model Numbers                          | SRY-G2S-TY-315-xxxxxx                                                      | SRY-G2S-RY-316-xxxxxx                            |
| Frequency Range                        | 10 MHz                                                                     |                                                  |
| Input Connectors & impedances          | 50Ω SMA or BNC.                                                            |                                                  |
| Input return loss (dB)                 | Typ. 20dB. Min 15 dB                                                       | N/A                                              |
| Output return loss (dB)                | N/A                                                                        | Typ. 16dB. Min 12 dB                             |
| Input AGC level Max (dBm)              | +12 dBm. Levels total power including noise                                |                                                  |
| Input AGC level Min (dBm)              | 0 dBm Min I/P for max O/P                                                  |                                                  |
| Output AGC level Max (dBm)             | +12 dBm. Levels total power including noise                                |                                                  |
| Output AGC level Min (dBm)             | 0. dBm                                                                     |                                                  |
| Max Input RF Power (dBm)               | +16 dBm. Damage level                                                      |                                                  |
| Monitoring Port (SMA 50 Ohm Connector) | -20dBc ±3 dB                                                               |                                                  |
| Frequency Offset (Hz)                  | Phase Noise Typ (dBc/Hz)                                                   | Phase Noise Max (dBc/Hz)                         |
| 0.1                                    | -120                                                                       | -110                                             |
| 1                                      | -132                                                                       | -120                                             |
| 10                                     | -144                                                                       | -130                                             |
| 100                                    | -149                                                                       | -140                                             |
| 1000                                   | -150                                                                       | -145                                             |
| 10000                                  | -151                                                                       | -147                                             |
| 100000                                 | -152                                                                       | -147                                             |
| 1000000                                | -152                                                                       | -147                                             |
| Laser Type                             | DFB                                                                        | -                                                |
| Optical Wavelength                     | 1310 ± 10 nm                                                               | 1100 to 1650nm. Optimized for 1310nm and 1550 nm |
| Optical Power output/input             | Output: 5.5 ±2 dBm.                                                        | 0 to 7dBm. Max 10 dBm                            |
| Power Consumption                      | 5W Typical                                                                 | 3W Typical                                       |
| Optical Connectors                     | FC/APC , SC/APC<br>Single mode fibre.                                      |                                                  |
| Gain Setting Modes                     | Manual Gain Control (MGC) / Automatic Gain Control (AGC) / Fixed Gain (FG) |                                                  |
| Module Dimensions                      | Genus 2U series mountable                                                  |                                                  |
| Module Swap                            | Hot swap                                                                   |                                                  |
| Location                               | Indoor use                                                                 |                                                  |
| Spec Version                           | 1.0                                                                        |                                                  |

Note 1: The specification is subject to regular reviews and will be updated from time to time as part of our continuing product development and improved spec accuracy.

Note 2: Operation beyond the quoted limits stated above may cause instantaneous and permanent damage.



# SRY-G2S-TY-315 & SRY-G2S-RY-316 ■

Part number configurator:

SRY-G2S-TY-315-XXXXXX

SRY-G2S-RY-316-XXXXXX

Fiber Connector options:

SA - SC/APC

FA - FC/APC

S5 - SMA 50 ohm

B5 - BNC 50 ohm