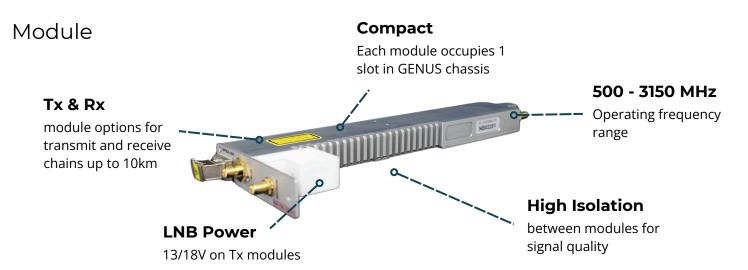


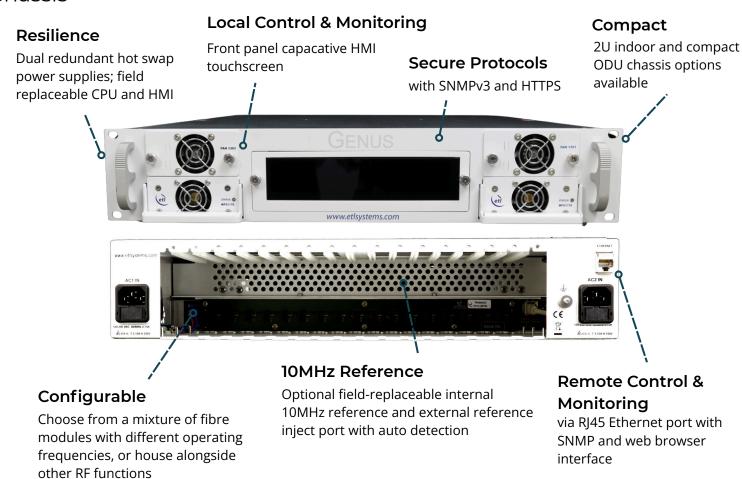
S-Band GENUS StingRay RF over Fibre module

with 22KHz tone and 13V/18V LNB power

StingRay S-band 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 module can inject an external or internal 10 MHz tone onto the S-band feed.



Chassis





SRY-G2S-TS6-311-xxxxxx SRY-G2S-RS6-312-xxxxxx

| | | RF Parameters | |
|---|-----------------|---|--|
| Model Numbers | | SRY-G2S-TS6-311 | SRY-G2S-RS6-312 |
| Frequency Range | | 500-3150 MHz | |
| | 850 - 2150MHz | ±1.5 dB, Fixed gain mode | |
| Flatness (dB) | 500 to 3150 MHz | ±2.0 dB, Fixed gain mode | |
| | Any 36MHz | ±0.25 dB, Fixed gain mode | |
| Output AGC Flatness | | | ±2.0dB over full band with Input -10 to -40 dBm |
| Return Loss (db) | 50 ohm SMA | 18 dB typ., 14 dB min | |
| | 50 ohm BNC | 18 dB typ., 14 dB min | |
| | 75 ohm BNC | 14 dB typ., 10 dB min (8 dB min >2450 MHz) | |
| | 75 ohm F-type | 14 dB typ., 10 dB min (8 dB min >2450 MHz) | |
| Gain Setting Modes | | Manual Gain Control (MGC), Automatic Gain Control (AGC), Fixed Gain (FG) | |
| Manual Gain Range | | 60 dB (in 0.5 dB steps) | |
| Monitor Port (SMA 50 Ohm Connector) | | -20dBc +/-3dB | |
| OIP3 Test condition: 1m fibre, 10dB gain, -22dBm tone levels | 850 - 2150MHz | 23 dBm typical, 20 dBm worst case | |
| | 500 to 3150 MHz | 20 dBm typical, 17 dBm worst case | |
| CNR (in any 36MHz) Test condition: 1m fibre, -10dBm RF i/p power, -10dBm RF o/p total power | | –50 dB typical, -45 dB worst case | |
| Noise Figure Test condition: 1m fibre, -50dBm RF i/p power, -10dBm o/p power | | 9 dB typical, 12 dB worst case | |
| Group Delay Variation | | <2ns over full band. <0.5ns over any 36MHz | |
| SFDR Test condition: 1m fibre, 10dB gain, -23dBm tone levels | 850 - 2150MHz | 107 dB/Hz ^{2/3} typ., 102 dB/Hz ^{2/3} min | |
| | 500 to 3150 MHz | 103 dB/Hz ^{2/3} typ., 98 dB/Hz ^{2/3} min | |
| RF Signal Range | | Input: -70 to -10 dBm (total power) Operational i/p range Output: -70 to -10 dBm (total power) o/p range available under all i/p conditions. (Note that all Specifications are only 'typical' between -60 & -70 dBm unless otherwise detailed). | |
| Max RF Input | | +16 dBm total power. Damage level, NOT operational. | |
| 10MHz Level at Output | | -10 to +10 dBm. User settable level via the chassis. Accuracy ± 2 dB | |
| 10MHz Isolation | | -40 dB, between adjacent modules in same chassis. | |
| Laser Type | | DFB. Optical isolator for improved performance | |
| Optical Wavelength | | 1310 ± 10 nm | 1100 to 1650nm. Optimised for 1310nm and 1550 nm |
| Optical Power | | Output: 4.5 ±2.5 dBm. 3.8 dBm typical | Input: 0 to 4.5dBm. Max 10 dBm |
| Optical Connectors | | FC/APC , SC/APC, E2000/APC, Single mode fibre. Use angle polish connectors only | |
| Power Consumption | | 15W Typical. With 18V 500 mA LNB Power. | 4 W Typical |
| LNB Power | | 18/13V ±5 %, 500 mA max | |
| Module Swap | | Hot swap | |
| MTBF | | >200,000 hours. | |





| LNB Power | | |
|------------------------------------|---|--|
| Number of Single modules fitted | Total Power Available for LNB Powering at 18V | |
| 16 | 115W | |
| 14 | 120W | |
| ≤ 13 | Limited by module specifications | |
| Spec. Version | 1.4 | |

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.