

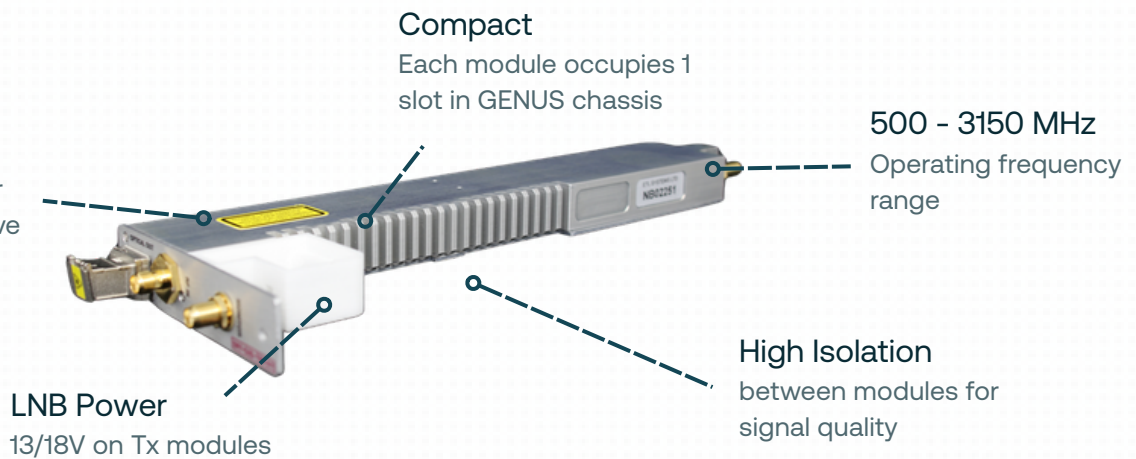
S-Band GENUS StingRay RF over Fibre module

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.

Module

Tx & Rx
module options for transmit and receive chains up to 10km



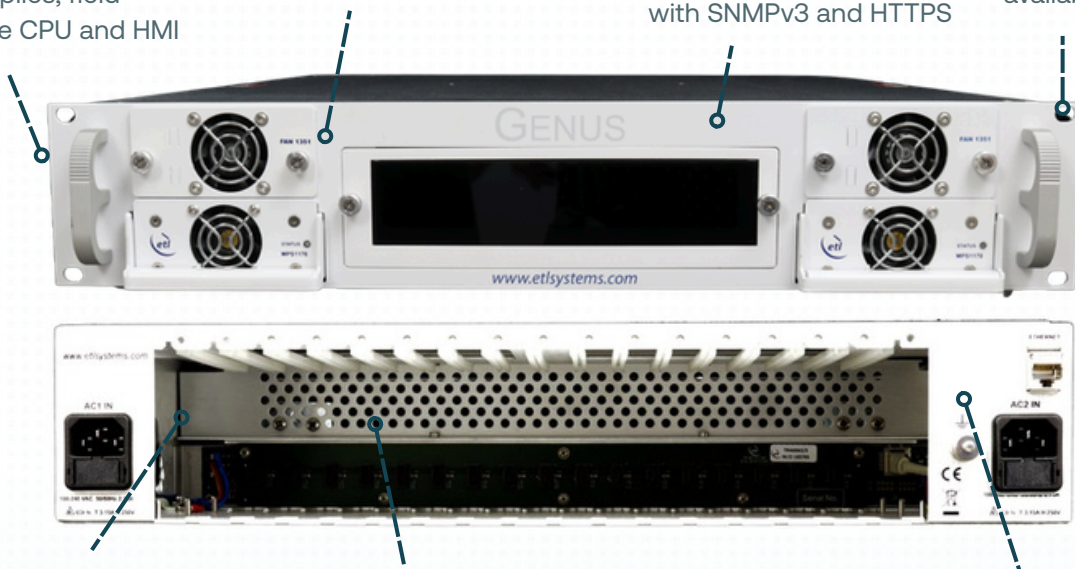
Chassis

Resilience
Dual redundant hot swap power supplies; field replaceable CPU and HMI

Local Control & Monitoring
Front panel capacitive HMI touchscreen

Secure Protocols
with SNMPv3 and HTTPS

Compact
2U indoor and compact ODU chassis options available



Configurable
Choose from a mixture of fibre modules with different operating frequencies, or house alongside other RF functions

10MHz Reference
Optional field-replaceable internal 10MHz reference and external reference inject port with auto detection

Remote Control & Monitoring
via RJ45 Ethernet port with SNMP and web browser interface



RF Parameters		
Model Numbers		SRY-G2S-TS6-311
		SRY-G2S-RS6-312
Frequency Range		500-3150 MHz
Flatness (dB)	850 - 2150MHz	±1.5 dB, Fixed gain mode
	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 / MTBF		Hot swap / >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.

Part number configurator: SRY-G2S-TS6-311-XXXXXX

SRY-G2S-RS6-312-XXXXXX

Fiber Connector options:
SA -SC/APC
FA - FC/APC
EA - E2000/APC

S5 - SMA 50 ohm
B5 - BNC 50 ohm
F7 - F-type 75 ohm
B7 - BNC 75 ohm