

StingRay RF Over Fibre Genus Module Dual L-band modules with 22KHz and 13V/18V switchable LNB power (TX only)

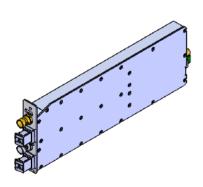
Model Number: SRY-G2S-TS2-331-xxxx SRY-G2S-RS2-332-xxxx

Typical applications:

- Teleports & Earth Stations
- Satellite Operations
- Government & Defence applications
- Telemetry, Tracking & Command
- High Resilience applications

SRY-G2S-TS2-331 & SRY-G2S-RS2-332 are L-Band Dual Transmit and Receive RF Over Fibre modules to fit Genus 2U chassis or ODU. The transmit module can provide LNB power 13/18VDC, 22kHz tone up to 500 mA. When fitted with a 10 MHz distributing module the module can inject an external or internal 10 MHz tone onto the L-Band feed.

Fibre Module





Fibre Module

Compact form factor allowing multiple modules to be housed in the Genus chassis. Each module occupies 1 slot in the chassis.



850 - 2450 MHz operating frequency range



Hot Swap & replaceable RF module



LNB Powering 13/18V on TX modules only



TX & RX module options to transmit and receive signals up to 10 km

Chassis Options -



Local control & monitoring via HMI high resolution touchscreen



Resilience from dual redundant hot -swap power supplies & field replaceable CPU & HMI



Compact indoor & outdoor

chassis options, which can be part populated



Secure protocols with SNMPv3





Indoor Chassis



Flexible Module Configurations choose from a mixture of fibre modules with different operating frequencies.



Remote control & monitoring via RJ45 Ethernet port with SNMP & web browser interface



Field replaceable Internal 10MHz reference source and external reference inject port with auto detection (optional)



Outdoor Unit

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Model Number: SRY-G2S-TS2-331-xxxx SRY-G2S-RS2-332-xxxx

Model Number			「X & RX Module - RF Paran		
Model Numbers		SRY-G2S-TS2-331		SRY-G2S-RS2-332	
Module width		1 chassis slot		1 chassis slot	
Frequency Ran	nge		850-2450	1 0 MHz	
850 to 2450 MHz		±1.5 dB, Fixed gain mode, input -10 dBm, output -10 dBm.			
Flatness (dB)		±0.25 dB, Fixed gain mode, input -10 dBm, output -10 dBm.			
	any 36 MHz	±U.23 QB, Fixed gain mode, in		±2.0 dB over full band with Input -10 to -40 dBm	
Datum	Output AGC Flatness 50 ohm SMA	- 19 dP tup, 14 dP min		±2.0 dB over full band with input -10 to -40 dbm	
		18 dB typ., 14 dB min			
(JD)	50 ohm BNC 75ohm BNC	18 dB typ., 14 dB min 14 dB typ., 10 dB min		18 dB typ., 14 dB min 16 dB typ., 12 dB min	
,	75 ohm F-type	14 dB typ., 10 dB min		16 dB typ., 12 dB min	
ro omin'i typo				MGC has 60dB gain setting	
Gain Setting Modes		Manual Gain Control (MGC), Automatic Gain Control (AGC), Fixed Gain (FG)	MGC has 60dB gain setting range. AGC keeps optimum link performance for varying input levels.	Manual Gain Control (MGC), Automatic Gain Control (AGC), Fixed Gain (FG)	range. AGC keeps optimum link performance for varying input levels.
Manual Gain Range		(The MGC gain mode allows lin	.5 dB steps k optimisation for better Noise or erformance)	-	
OIP3		850 to 2150 MHz: 23 dBm typical, 20 dBm min Test condition : 1m fibre, 10 dB gain, -22 dBm tones at 2150 and 2152 MHz			
CNR (in any 36 MHz)		Typical –50 dB, Worst Case -45 dB Test condition: 1m fibre, -10 dBm RF i/p power, -10 dBm RF o/p total power.			
Noise Figure		Typical 9 dB, Worst Case 12 dB Test condition: 1 m fibre, -50 dBm RF i/p power, -10 dBm o/p power			
Group Delay Variation		2 ns over full band. 1ns over any 36 MHz.			
SFDR		850 to 2150 MHz: 107 dB/Hz ^{2/3} typical, 102 dB/Hz ^{2/3} min Test condition: 1 m fibre, 10 dB gain, -22 dBm tones at 2150 and 2152 MHz			
IMD3		-64 dBc typ., -58 dBc min. Test condition: 1 m fibre, 10 dB gain, -22 dBm tones at 2150 and 2152 MHz			
RF Signal Range		Input: -70 to -10 dBm (total power) Operational i/p range (Note that all Specifications are only 'typical' between -60 & -70 dBm unless otherwise detailed).		Output: -70 dBm 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.		,	
10 MHz level at output		-10 to +10 dBm. User settable level via the chassis. each channel level can be set separately. Accuracy ±1 dB		-10 to +0 dBm. User settable level via the chassis. Accuracy ±1 dB (Same level on both RF Output ports)	
10 MHz isolation		-40 dB. Between the two ports on one module or between adjacent modules in same chassis		chassis	
Laser Type		DFB. Optical isolator fo	r improved performance		
Optical Wavelength		1310 ±	: 10 nm	1100 to 1650 nm. Optimised for 1310 nm and 1550 nm	
Optical Power		Output: 4.5 ±2.5 d	Bm. 3.8 dBm typical	Input: 0 to 4.5 dBm. Max 10 dBm	
LNB Power		· · · · · · · · · · · · · · · · · · ·	mA max per channel	-	
Optical Connectors		FC/APC , SC/APC, Single mode fibre. Use angle polish connectors only			
Power Consumption		30W Typical. With 18	18V 500 mA LNB Power. 8W Typical		
Module Swap		Hot swap			
MTBF		>200,00	00 hours.	>250,000	O hours.
			LNB Power		
Number of Dua	al modules fitted	Total Power Available for LNB powering @ 18V			
16		83 W			
14		93 W			
12		102 W			
10		112 W			
8 ≤ 7		122 W			
-7		Limited by module specifications 0.1 0.1			

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.

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