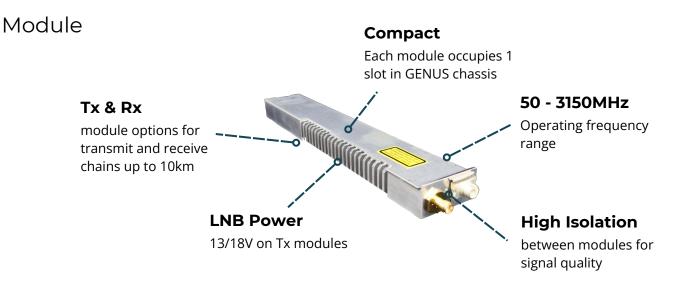


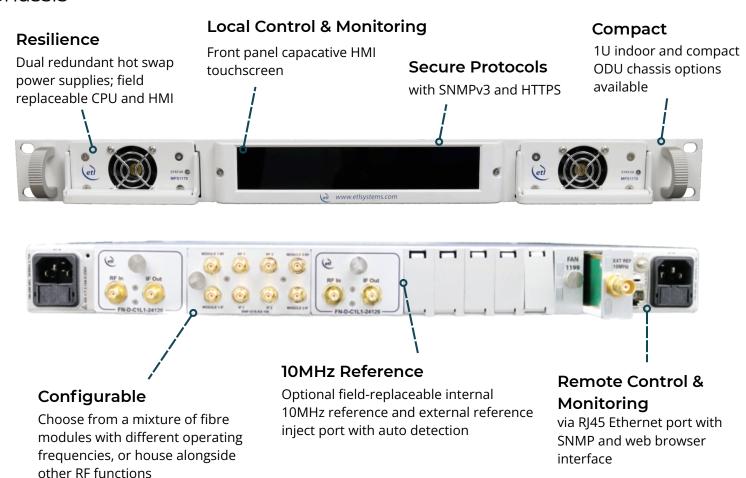
## **Broadband GENUS StingRay RF over Fibre Module**

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

StingRay Broadband Transmit and Receive RF Over Fibre modules to fit Genus 1U 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 L-band feed.



## Chassis





## SRY-G1S-TB3-171-XXXX SRY-G1S-RB3-172-XXXX

			RF Parameters		
Model Numbers		SRY-G1S-TB3-171-XXXX		SRY-G1S-RB3-172-XXXX	
Frequency Range		50 - 3150 MHz			
Flatness (dB) (Fixed gain mode, input -10dBm, output -10dBm with 1m fibre link)	850 - 2150MHz	±1.5			
	500 - 3150MHz	±2.0			
	Any 36MHz	±0.25			
Output AGC Flatness (dB) (With input -10 to -40dBm)	200 - 2450MHz	±2.0			
	50 - 200MHz	±3.0			
	2450 - 3150MHz	±2.5			
Return Loss (db)	50ohm SMA	14 typical, 10 minimum (50 - 200MHz)	18 typical, 14 minimum (200 - 3150MHz)	18 typical, 14 minimum	
	50ohm BNC	14 typical, 10 minimum (50 - 200MHz)	18 typical, 14 minimum (200 - 3150MHz)	18 typical, 14 minimum	
	75ohm BNC	14 typical, 10 minimum (50 - 2450MHz)	8 minimum (2450 - 3150MHz)	16 typical, 12 minimum (50 - 2450MHz)	8 minimum (2450 - 3150MHz)
	75ohm F-type	14 typical, 10 minimum (50 - 2450MHz)	8 minimum (2450 - 3150MHz)	16 typical, 12 minimum (50 - 2450MHz)	8 minimum (2450 - 3150MHz)
Gain Setting Modes		Manual Gain Control (MGC), Automatic Gain Control (AGC), Fixed Gain (FG)			
Manual Gain Range		60dB, in 0.5dB steps			
OIP3 Test condition: 1m fibre, 10dB gain, -23dBm tones, -10dBm RF o/p total power	850 - 2150MHz	23 dBm typical, 20 dBm worst case			
	50 - 3150MHz	20 dBm typical, 17 dBm worst case			
CNR (in any 36MHz)		-50 dB typical, -45 dB worst case <b>Test condition:</b> 1m fibre, 10dB gain, -23dBm tones, -10dBm RF o/p total power			
Noise Figure		9 dB typical, 12 dB worst case <b>Test condition:</b> 1m fibre, -10dBm RF i/p power, -10dBm RF o/p total power			
Group Delay Variation		<2ns over full band <0.5ns over any 36MHz			
SFDR Test condition: 1m fibre, 10dB gain, -23dBm tones, -10dBm RF o/p total power	850 - 2150MHz	107 dB/Hz2/3 typical 102 dB/Hz2/3 minimum			
	50 - 3150MHz	103 dB/Hz2/3 typical 98 dB/Hz2/3 minimum			
RF Signal Range		Input: 70 to -10dBm (total power) operational i/p range (Specifications are only 'typical' between -60 & -70dBm unless otherwise detailed)		Output: -70dBm to -10dBm (total power) o/p range available under all i/p conditions (Specifications are only 'typical' between -60 & -70dBm unless otherwise detailed)	
Max RF Input		16dBm total power Damage level, NOT operational.		-	
10MHz Level at Output		-10 to +6 dBm, user settable via the chassis. Accuracy ±2.0 dB		-10 to +4 dBm, user settable via the chassis.  Accuracy ±2.0 dB	
10MHz Isolat	ion	-40 dB, between modules in same chassis.			

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## SRY-G1S-TB3-171-XXXX SRY-G1S-RB3-172-XXXX

	Optical Parameters					
Model Numbers	SRY-G1S-TB3-171-XXXX	SRY-G1S-RB3-172-XXXX				
Laser Type	DFB	-				
Optical Wavelength	1310 ± 10 nm	1100 to 1650nm. (Optimised for 1310nm and 1550nm)				
Optical Power	Output: 4.5 ±2.5 dBm (3.8 dBm typical)	Input: 0 to 4.5dBm (10 dBm max.)				
Optical Connectors	FC/APC , SC/APC Single mode fibre. Use angle polish connectors only.					
Module Dimensions	19 x 38 x 250 mm. 0.2kg. GENUS 1U series mountable.					
LNB Power	18/13V ±5%, 500 mA maximum (Short circuit current 750 mA maximum)	-				
Power Consumption	15W typical (with 18V 500mA LNB power)	4W typical				
Module Swap	Hot swap					
MTBF	>200,000 hours					
LNB Power						
Number of Modules Fitted	Total Power Available for LNB Powering at 18V					
16	115W					
14	120W					
≤13	Limited by module specifications					
Spec. Version	1.1					

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.