

StingRay RF Over Fibre

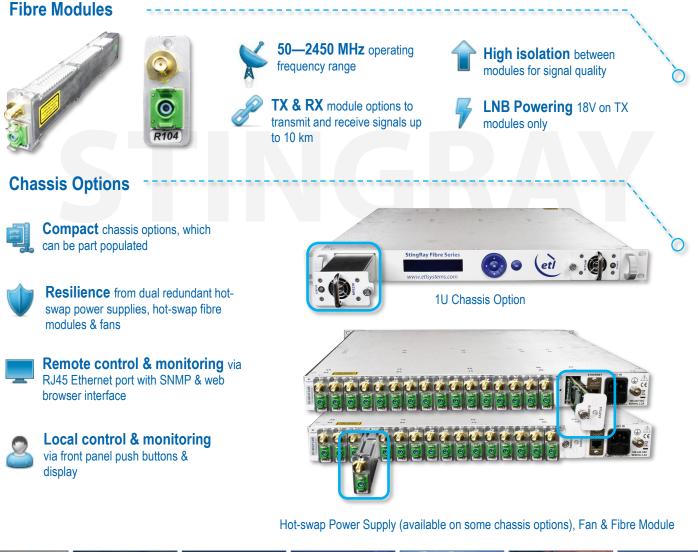
100 series Broadband modules with 18V LNB powering (on TX module)

The StingRay 100 Series broadband RF over fibre chassis are designed to give compact fibre links of up to 10 km (Link budget 4 dB). The transmit modules benefit from a high and wide dynamic range with automatic link optimisation ensuring high quality broadband signals. Resilience is provided by a full hot-swap, modular design.

Other options in the StingRay series: The StingRay range is also available with additional features such as RF monitoring ports, high linearity, switchable LNB powering, redundancy systems and 10 MHz injection.

Typical applications:

- Ku-band and Ka-band ready for HTS applications
- Distribution of comms traffic across site with minimal loss
- General satcoms- teleports, video head-ends, TVRO
- Compact solution for small quantity links such as tactical HQ
- A resilient solution for satellite teleports with transition distances up to 10km



V 1.1.1 E&OE



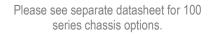
			RF Parameters (TX & RX Mo	dules)	
Model Number		SRY-TX-E	32-105 (transmit)	SRY-I	RX-B2-106 (receive)
Frequency Range		50-2450 MHz (Broadband)			
Flatness (Fixed gain mode)	850-2450MHz	±2.0 dB			
	200-850MHz	±2.0 dB			
	50-200MHz	±2.0 dB			
	Any 36MHz i/p >-50dBm	±0.25 dB			
	Any 36MHz i/p <-50dBm	±0.5 dB			
Return Loss	Typical	18 dB 50Ω SMA	18 dB 50Ω BNC	16 dB 75Ω BNC	16 dB 75Ω F-type
	Minimum	12 dB 50Ω SMA	12 dB 50Ω BNC	12 dB 75Ω BNC	12 dB 75Ω F-type
Output AGC Flatness		- ±2.0 dB over two bands above (Input -10 to -40 dBm)			nds above (Input -10 to -40 dBm)
OIP3		18 dBm typical, 14 dBm minimum (Test conditions: 1m fibre, 10 dB gain, -23 dBm tones at 2150 and 2152 MHz)			
CNR (in any 36 MHz)		-38 dB typical, -35 dB minimum (Test conditions: 1m fibre, -10 dBm RF i/p power, -10 dBm RF o/p total power)			
Group Delay Variation		±2ns over each band, Bands 50 to 200 MHz and 850 to 2450 MHZ			
		± 0.5 ns any 36MHz 850 to 2450MHz, Any 36 MHz applies only 850 to 2450 MHz			
SFDR		105 dB/Hz ²³ typ., 100 dB/Hz ²³ min (Test condition: 1m fibre, 10 dB gain, -23 dBm tones at 2150 and 2152 MHz)			
IMD3		-65 dBc typ., -60 dBc min. (Test condition: 1m fibre, 10 dB gain, -23 dBm tones at 2150 and 2152 MHz)			
RF Signal Range		Input: -60 dBm to -10 dBm (total power) Operational I/P range Output: -30 dBm to -10 dBm (total power)			3m to -10 dBm (total power)
Max RF Input		16 dBm total power (Damage level, NOT operational) -			
Gain Control		- AGC -30 dBm - 10 dBm		-30 dBm - 10 dBm	
AGC / MSG			Factory set.Settable output power level.Once AGC level set gain can be fixed.Once AGC level set gain can be fixed.		
Noise Figure		10 dB typical, 12 dB maximum (Test conditions: 1m fibre, -50 dBm RF i/p power, -10dBm o/p power)			
Laser Type		DFB (Optical isolator	for improved performance)		-
Optical Wa	avelength	131	0 ± 10 nm	1100 to 1650 nm	Optimised for 1310 nm and 1550 nm
Optical Power		Output:	4.5 ± 2.5 dBm	Input: 0 to -4.5 dBm, Max 10 dBm	
Power Consumption			3.5W	2W	
LNB Power		Dependant on chassis	- see chassis specifications.	None	
MTBF		211,600 hours 292,550 hours			
RF Connectors		BNC 50 Ω - B5 / BNC 75 Ω - B7 / F-type 75 Ω - F7 / SMA 50 Ω			
Optical Connectors		S5/ FA - FC/APC or SA - SC/APC			
			Environmental Condition	าร	
Operating Temperature		0 to 50°C			
Storage Temperature		-20°C to +75°C			
Location		Indoor use only			
Humidity		20 to 90% non-condensing (relative humidity)			
Altitude		10,000 ft AMSL (above mean sea level)			
Mass		0.18kg			
Size		43.5 x 18 x 209.5 mm			

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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