

Model number: SRY-TX-B2-207 & SRY-RX-B2-208

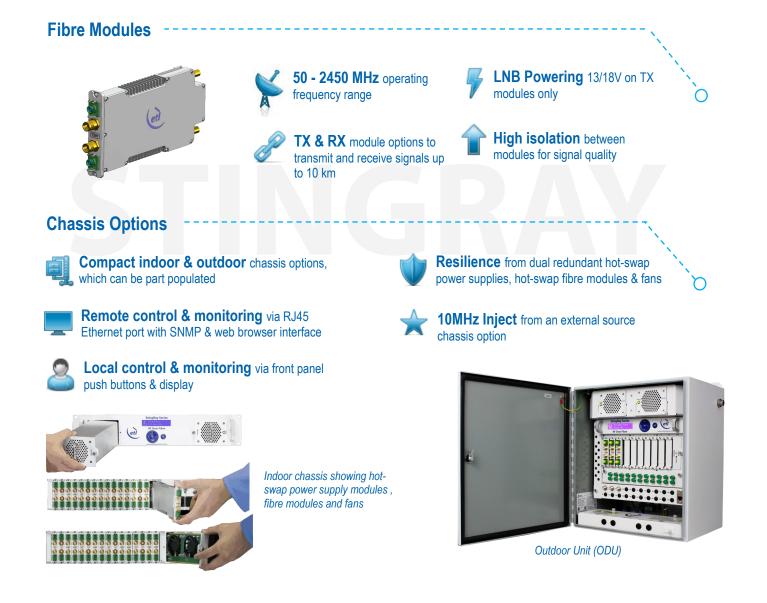
StingRay RF Over Fibre

200 Series Broadband Dual Modules with 13/18V LNB Powering & 22kHz tone (on TX module)

The StingRay 200 Series of 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 L-band transmission . Resilience is provided by a full hot-swap, modular design.

Typical applications:

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





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				RF Parameters	s (TX and RX)				
Model Number		SRY-TX-B2-207-xxxx (Transmit) SRY-RX-B2-208-xxxx (Receive)							
Frequency Range		50 to 2450 MHz (Broadband)							
850-2450MHz		± 2.9 dB							
	50-2450MHz	± 2.0 dB							
Flatness	Any 36MHz i/p >- 50dBm	± 0.25 dB							
	Any 36MHz i/p <- 50dBm		± 0.5 dB						
Output AGC	50 to 200 MHz	± 2.8 dB							
Flatness	850 to 2450 MHz	± 2.8 dB (Input-10 to -40 dBm)							
Return Loss	50 ohm SMA / BNC 75 ohm BNC / F-type	18 dB typical, 12 dB minimum 16 dB typical, 12 dB minimum							
Isolation		Typical -40dB, -35 worst case (Between 2 links in dual RX & TX modules)							
Noise Figure		10 dB typical, 12 dB worst case (Test condition: 1m fibre, -50 dBm RF i/p power,-10 dBm o/p power)							
OIP3		18 dBm typical, 14 dBm worst case (Test condition: 1m fibre, 10 dB gain, -22 dBm tones at 2150 and 2152 MHz)							
CNR (in any 36 MHz)		-50 dB typical, -45 dB worst case (Test condition : 1m fibre,-10 dBm RF i/p power, -10 dBm RF o/p total power)							
Group Delay Variation		±2 ns over full band (Bands 50 to 200 MHz and 850 to 2450 MHz)							
SFDR		±0.5ns any 36 MHz 850 to 2450 MHz (Any 36 MHz applies only 850 to 2450 MHz)							
IMD3		105 dB/Hz ^{2/3} typical, 100 dB/Hz ^{2/3} worst case (Test condition : 1m fibre, 10 dB gain, -22 dBm tones at 2150 and 2152 MHz) -65 dBc typical, -60 dBc minimum (Test condition : 1m fibre, 10 dB gain, -22 dBm tones at 2150 and 2152 MHz)							
MD3 Optical Wavelength		-55 dBC typical, -60 dBC minimum (rest condition: I'm libre, 10 dB gain, -22 dBm tones at 2150 and 2152 MH2) 1310 ± 10 nm 1100 to 1650 nm (Optimised for 1310 nm and 1550 nm))	
Optical vvavelength Optical Power			Out: 4.5 ± 2.5 dBm (3.8 dBm t	voical)	In: 0 to 4.5 dBm (Max 10 dBm)				
Laser Type		DFB (Optical isolator for improved performance)			-				
AGC / MSG		Factory Set Once AGC level set, gain can be fixed			Settable output power level, gain can be fixed				
RF Signal Range		Input: -60 dBm to -10 dBm (total power)			Output: -30 dBm to -10 dBm (total power) o/p range available under all i/p conditions				
LNB Power		18/13V ± 5%, 500mA max (Short circuit current 750mA max)							
Maximum RF Input Power		16 dBm total power (NB. Damage level)							
Power Consumption		28W (with 2x 18V 500 mA LNB power)			7W typical				
MTBF		TBD hours			>150,000 hours				
Chassis Options - Technical Specifications									
Model Numbers		SRY-C200-1U	SRY-C207-1U	SRY-C201-2U	SRY-C206-2U	SRY-C205-2U	SRY-C204-2U	SRY-ODU201	
Capacity		Up to 4 2xx series modules Up to 16 2xx series modules Up to 10 2x					xx series modules		
Redundancy options		1+1 redundancy configuration available with modules SRY-L1-DIV213 & SRY-L1-SW214 4+1 redundancy						1+1 redundancy	
Dimensions		1U high x 450 mm deep x 19° wide 2U high x 450 mm deep x 19° wide						407 high x 356 deep x 254" wide	
Local Control & Monitoring		Front panel LCD and keypad						Optional	
Remote Control & Monitoring		Ethernet via RJ45, 10baseT/100BaseTx, ETL protocol over TCP/IP, SNMP, built in web server. Serial port. Dry contact alarm summary.							
Module Features Monitored		Includes: Temperature, RF Power, Optical Power, PSU status & Individual fans							
LNB Power		Up to 0.5A per channel, not exceeding 2.8A total		Up to 500mA per channel, 8A total				Yes Module must support LNB power	
10MHz Injection		-	+9 dBm, input level (27 dBm max. level)	-	-	+15 dBm input level (27 dBm max. level)	- 100-240 VAC 50/60Hz	With SRY-OPT16-10M	
PSU Power		100-240 VAC 50/6	0Hz (Fused 2A, Dual IEC)		100-240 VAC 50/60Hz (Fused 4A T, Dual IEC)			0-240VAC, 50/60Hz	
PSU Redundancy				Dual Hot-Swap Modules, Diode OR Front Mounted					
AC Power Consumption		< 150 W all channels		<405 W all channels			<312 W all channels	< 260 W all channels	
Heat Load							< 200 W, 450 BTU/hr	<145 W, 495 BTU/hr See SRY-ODU-201 datasheet	
Operating/Storage Temperature		Operating: 0 to 50°C / Storage: -20°C to +75°C						for details	
Humidity		20 to 90% non-condensing							
Weight		TBD kg 12 kg						21 kg	
Front Panel Colour		RAL9003 White semi-matte							



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