

StingRay RF over Fibre 200 series 10MHz Reference Modules with ultra low phase noise

The StingRay 200 Series of 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 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.

Typical applications:

- Used in conjunction with Lband & Broadband fibre modules
- · 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



10 MHz operating frequency range

to 10 km

TX & RX module options to

transmit and receive signals up



chassis option

-20dB Monitor port to measure input signal levels

Flexit
 can be
chassis

Resilience from dual redundant hot-swap

10MHz Inject from an external source

power supplies, hot-swap fibre modules & fans

bility 10 MHz modules housed in same as fibre modules

Chassis Options

Fibre Modules

Compact indoor & outdoor chassis options, which can be part populated





Local control & monitoring via front panel push buttons & display



Indoor chassis showing hotswap power supply modules, fibre modules and fans



Outdoor Unit (ODU)



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Model Number: SRY-TX-Y-281 & SRY-RX-Y-282

PRELIMINARY SPECIFICATIONS

RF Parameters (TX and RX)							
Model Number		SRY-TX-Y-281-x	SRY-TX-Y-281-xxxx SRY-RX-Y-282-xxxx		2-xxxx		
Frequency Range		10 MHz					
Return Loss	50 ohm SMA	18 dB typical, 12 dB minimum					
	50 ohm BNC	18 dB typical, 12 dB minimum					
Input AGC level	Maximum	+15 dBm					
	Minimum	0 dBm					
Output AOO lavel	Maximum	+15 dBm					
Output AGC level	Minimum	0 dBm					
Noise Figure		27 dB (with 281 TX or 282 RX +10 dBm input and output level)					
Optical Wavelength		1310 ± 10 nm 1100 to 1650 nm (Optimised for 1310 nm and 1550 nm)					
Max RF Input		+16 dBm total power (Damage level)					
	0.1 Hz	-114 dBc/Hz typical, -98 dBc/Hz maximum					
	1 Hz	-123 dBc/Hz typical, -117 dBc/Hz maximum					
	10 Hz	-130 dBc/Hz typical, -124 dBc/Hz maximum					
Phase Noise	100 Hz	-141 dBc/Hz typical, -135 dBc/Hz maximum					
	1000 Hz	-153 dBc/Hz typical, -147 dBc/Hz maximum					
	10000 Hz	-153 dBc/Hz typical, -147 dBc/Hz maximum					
	100000 Hz	-153 dBc/Hz typical, -147 dBc/Hz maximum					
	1000000 Hz	-153 dBc/Hz typical, -147 dBc/Hz maximum					
Laser Type		DFB (Two stage optical isolator for improved performance)		N/A			
Optical Power output		5.5 ± 2 dBm		N/A			
Optical Power in		N/A		0 to 7 dBm (Max 10 dBm)			
Power Consumption		6W		4W			
AGC		Factory Set	Maintains optimum level of laser modulation	Factory Set	Maintains set output level		
MTBF		>200,000		TBC			
RF Connectors		BNC 50 Ω (B5) or SMA 50 Ω (S5)					
Optical Connectors	i	FC/APC (FA) or SC/APC (SA)					
Operating Temperature -40 to +55 °C							
Storage Temperature -40 to +85 °C							
Location		Indoor use					
Humidity		20 to 90% non-condensing. Relative Humidity					
Altitude		10,000 feet AMSL (Above Mean Sea Level)					
Dimensions		87.8 x 18 x 150 mm					
Weight		0.35 kg					

Please see separate datasheet for 200 series chassis options.

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