

Model Number: SRY-G2S-TY-315-xxxx SRY-G2S-RY-316-xxxx

Government & Defence applicationsTelemetry, Tracking & Command

• High Resilience applications

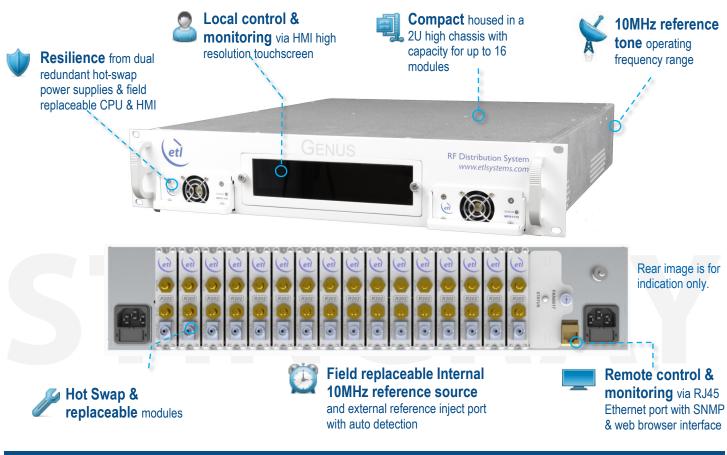
Typical applications: • Teleports & Earth Stations

Satellite Operations

StingRay RF Over Fibre Genus

Modules 10MHz modules with ultra low phase noise and 10km nominal range

StingRay 10MHz Transmit and Receive RF Over Fibre Genus Modules to fit Genus 2U chassis. With ultra low phase noise and 10km nominal range.



Chassis - Specification			
Dimensions / Weight / Colour	2U high x 550mm deep x 19" wide / <10 kg / RAL9003—White (Semi-matte)		
Capacity	Total of 17 module slots. Note that 1 slot may be used for fan (if required) and 1 slot may be used for 10 MHz EXT inject module (if required). Note actual modules may require >1 slot. Refer to required module spec table.		
Temperature	Operating: 0°C to +45°C / Storage: -20°C to +75°C		
Location / Humidity / Altitude	Indoor use only / 20 to 90% non-condensing / 10,000 feet AMSL (Operational) 30,000 feet AMSL (Storage) Above Mean Sea Level		
Control & Monitoring	Local: HMI touch screen Remote: Ethernet via RJ45, 10BaseT/100 BaseTx. TCP/IP, SNMP V3 & HTTPS & Web browser interface HMI and CPU field replaceable. Each module independently monitored and reported.		
MTTR	20 minutes (15 minutes to retrieve spare part and 5 mins to replace) Applies to LRUs only and assumed in house stock		
AC Input / Consumption	85-264Vac 50/60Hz / 150W		
PSU Redundancy	Dual redundant and alarmed Diode OR. Hot swappable		
Input & Output ports	Dependant upon module fitted		



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StingRay Module Compact form factor allowing multiple modules to be housed in 2U chassis. Each module uses 1 slot in the chassis.

Preliminary Specification

StingRay TX & RX Module - RF Parameters			
Model Numbers	SRY-G2S-TY-315-xxxx	SRY-G2S-RY-316-xxxx	
Frequency Range	10 MHz		
Input Connectors & impedances	50Ω SMA or BNC.		
Input return loss (dB)	Typ. 20dB. Min 15 dB	N/A	
Output return loss (dB)	N/A	Typ. 16dB. Min 12 dB	
Input AGC level Max (dBm)	+12 dBm. Levels total power including noise		
Input AGC level Min (dBm)	0 dBm Min I/P for max O/P		
Output AGC level Max (dBm)	+12 dBm. Levels total power including noise		
Output AGC level Min (dBm)	0. dBm		
Max Input RF Power (dBm)	+16 dBm. Damage level		
Monitoring Port (SMA 50 Ohm Connector)	-20dBc ±3 dB		
Frequency Offset (Hz)	Phase Noise Typ (dBc/Hz)	Phase Noise Max (dBc/Hz)	
0.1	-120	-110	
1	-132	-120	
10	-144	-130	
100	-149	-140	
1000	-150	-145	
10000	-151	-147	
100000	-152	-147	
1000000	-152	-147	
Laser Type	DFB	-	
Optical Wavelength	1310 ± 10 nm	1100 to 1650nm. Optimized for 1310nm and 1550 nm	
Optical Power output/input	Output: 5.5 ±2 dBm.	0 to 7dBm. Max 10 dBm	
Power Consumption	5W Typical	3W Typical	
Optical Connectors	FC/APC , SC/APC Single mode fibre.		
Gain Setting Modes	Manual Gain Control (MGC) Automatic Gain Control (AGC) Fixed Gain (FG)		
Module Dimensions	TBC. Genus 2U series mountable.		
Module Swap	Hot swap		
Operating Temperature	-40°C to +55°C		
Storage Temperature	-40°C to +85°C		
Location	Indoor use		
Humidity	20 to 90% non-condensing		
Altitude	10,000 feet AMSL		
Spec Version	1.0	1.0	

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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