

Model Number: SRY-G2S-DS6-401 & SRY-G2S-SS6-402

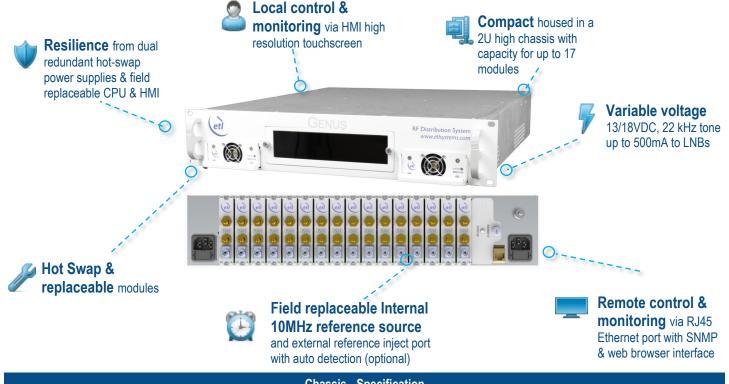
StingRay S-band Active Splitter and Redundancy Switch

SRY-G2S-DS6-401-xxxxxx is a hot swap active splitter with 10MHz & DC pass between the output and common ports. The module provides 0 dB gain with an input impedance of 50 or 75 Ohms, the output is always 50 Ohms. The module is designed to be used with 50 Ohm transmit modules from the StingRay series to produce 1+1 redundant systems. The module is designed to work in Genus 2U chassis and ODUs.

SRY-G2S-SS6-402-xxxxxx is a hot swap, redundancy switch operating over -5 to -55dBm mean power. The module incorporates RF detection at each of its input ports and switches over if the level differs by more than 2 to 30dB, customer settable. It is designed to operate with optical receivers from the StingRay Genus chassis series.

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



Chassis - Specification				
Dimensions / Weight / Colour	2U high x 510mm 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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Preliminary Technical Specifications and Operating Parameters

RF Parameters (Splitter and Switch Modules)				
Model Number		SRY-G2S-DS6-401	SRY-G2S-SS6-402	
Frequency Range		500 To 3150 MHz (Extended L-band)		
Gain		0 dB ± 1.5 dB	0 dB ± 1.5 dB (TBC)	
Flatness	850-2150MHz	± 1.0 dB	± 1.0 dB	
	500-3150MHz	± 1.5 dB ± 2.0 dB		
	Any 36MHz	± 0.25 dB ± 0.25 dB		
Return Loss (All RF ports are DC	50 ohm SMA	18 dB typical, 12 dB minimum 18 dB typical, 12 dB minimum		
	50 ohm BNC	18 dB typical, 12 dB minimum 18 dB typical, 10 dB minimum		
	75 ohm BNC	16 dB typical, 10 dB minimum16 dB typical, 8 dB minimum		
blocked)	75 ohm F-type	16 dB typical, 10 dB minimum 16 dB typical, 8 dB minimum		
Isolation		20 dB	-40 dB (-10dBm tone across operational bandwidth unselected input to output)	
1dB Gain Compression Point		+5 dBm minimum (output power)	+7 dBm minimum (output power)	
OIP3		-	+18 dBm minimum	
Noise Figure		12 dB maximum	12 dB maximum	
Group Dela	ay Variation	2ns over full band, 1ns over any 36MHz		
RF Input Si	ignal Range	-	-55 to –5 dBm (total power)	
Max RF Inp	out	20 dBm total power (Damage level, NOT operational)	16 dBm total power (Damage level, NOT operational)	
Switching T	Threshold	-	2 dB to 30 dB Differential (Customer Settable)	
Switching Delay		-	0 to 10 Seconds (Customer Settable)	
10MHz leve	el at output	10MHz Ref Bypass , 0dB loss	-10 dBm to + 10 dBm	
DC Pass		Yes	DC Blocked	
		Non RF Parameters		
Power Consumption		<3W		
Module Swap		Hot Swap		
Control, Monitoring & Alarms				
Temperature		Each module monitored		
Monitoring Includes		Status of amplifier stage, supply voltage, temperature		
Control		Local and Remote via parent chassis		
		Environmental Condition	ons	
Operating Temperature		-20°C to +60°C		
Storage Temperature		-40°C to +90°C		
Location Indoor		Indoor use (OE	ODU options available)	
Humidity		20 to 90% non-condensing		
Altitude		10,000ft AMSL		
Mass	0.35kg typical TBC		typical TBC	
Size		TBC		
Spec Issue	1	0.2	0.2	

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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