

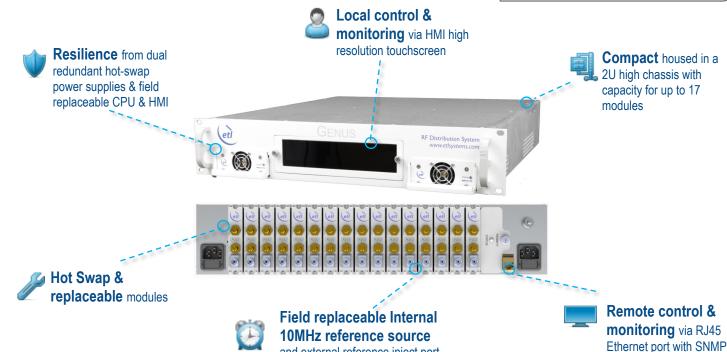
StingRay S-band Active Splitter and Redundancy Switch

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-xxxxxxx 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) 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). Capacity Note actual modules may require >1 slot. Refer to required module spec table. Operating: 0°C to +45°C / Storage: -20°C to +75°C Temperature 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 Remote: Ethernet via RJ45, 10BaseT/100 BaseTx. TCP/IP, SNMP V3 & HTTPS & Web browser interface Control & Monitoring 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

and external reference inject port

with auto detection (optional)















& web browser interface

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

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 (S-band)	
Gain		0 dB ± 1.5 dB	0 dB ± 1.5 dB
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 blocked)	50 ohm SMA	18 dB typical, 13 dB minimum	18 dB typical, 12 dB minimum
	50 ohm BNC	18 dB typical, 13 dB minimum	18 dB typical, 10 dB minimum
	75 ohm BNC	16 dB typical, 10 dB minimum	16 dB typical, 8 dB minimum
biochedy	75 ohm F-type	16 dB typical, 10 dB minimum	16 dB typical, 8 dB minimum
Isolation		19 dB typical, 16dB minimum	-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		9dB typical, 11 dB maximum	12 dB maximum
Group Delay Variation		1ns over full band, 0.5ns over any 36MHz	2ns over full band, 1ns over any 36MHz
RF Signal Range		Input: -70 to -10dBm (total power) Operational i/p range (Note that all Specifications are only 'typical' between -60 & -70dBm unless otherwise detailed).	Output: -70dBm to -10dBm (total power) o/p range available under all i/p conditions. (Note that all Specifications are only 'typical' between -60 & -70dBm unless otherwise detailed).
Max RF Input		20 dBm total power (Damage level, NOT operational)	16 dBm total power (Damage level, NOT operational)
Switching Threshold		-	2 dB to 30 dB Differential (Customer Settable)
Switching Delay		-	0 to 10 Seconds (Customer Settable)
10MHz Level at output		10MHz Ref Bypass , 0dB loss	-10dBm to +10dBm
Non RF Parameters			
Power Consumption		<3W	
Module Swap		Hot Swap	
Control, Monitoring & Alarms			arms
Temperature		Each module monitored	
Monitoring Includes		Status of amplifier stage, supply voltage, temperature	
Control		Local and Remote via parent chassis	
Environmental Conditions			
Operating Temperature		-20°C to +60°C	
Storage Temperature		-40°C to +90°C	
Location		Indoor use (ODU options available)	
Humidity		20 to 90% non-condensing	
Altitude		10,000ft AMSL	
Mass		0.4kg typical	
Size		19mm Width x 87mm Height x 225mm Depth	
Spec Issue		0.4	0.3

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.













