



## S-band Active 2-Way Splitter

### Unity gain, 500-3150MHz with 10MHz and DC pass

#### Typical applications:

- Teleports & Earth Stations
- Satellite Operations
- Government & Defence applications
- Telemetry, Tracking & Command
- High Resilience applications

DIV-G2-SX-204-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.

### Splitter Module



#### Splitter Module

Compact form factor allowing multiple modules to be housed in the Genus chassis. Each module occupies 1 slot in the chassis.



#### 500 - 3150 MHz

operating frequency range



#### Hot Swap &

replaceable RF module



**10MHz & DC pass** from common to multi ports



**2-Way active splitter** with unity gain

### Chassis Options



**Local control & monitoring** via HMI high resolution touchscreen



**Flexible Module Configurations** choose from a mixture of splitter modules with different operating frequencies.



**Resilience** from dual redundant hot-swap power supplies & field replaceable CPU & HMI



**Remote control & monitoring** via RJ45 Ethernet port with SNMP & web browser interface



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



**Field replaceable Internal 10MHz reference source** and external reference inject port with auto detection (optional)



**Secure protocols** with SNMPv3



Indoor Chassis



Outdoor Unit





**Preliminary Technical Specifications and Operating Parameters**

RF Parameters		
Model Number	DIV-G2-SX-204	
Frequency Range	500 to 3150 MHz (S-band)	
Gain	0 dB $\pm$ 1.5 dB	
Flatness	850-2150MHz	$\pm$ 1.0 dB
	500-3150MHz	$\pm$ 1.5 dB
	Any 36MHz	$\pm$ 0.25 dB
Return Loss <small>(All RF ports are DC blocked)</small>	50 ohm SMA	18 dB typical, 13 dB minimum
	50 ohm BNC	18 dB typical, 13 dB minimum
	75 ohm BNC	16 dB typical, 8 dB minimum
	75 ohm F-type	16 dB typical, 8 dB minimum
Isolation	19 dB typical, 16dB minimum	
1dB Gain Compression Point	+5 dBm minimum (output power)	
Noise Figure	9dB typical, 11 dB maximum	
Group Delay Variation	1ns over full band, 0.5ns over any 36MHz	
Max RF Input	+20 dBm total power (Damage level, NOT operational)	
10MHz Ref Bypass	0dB loss	
DC Pass	<1V drop at 500mA Bypass	
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 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	0.1	

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.

