



## 10MHz Active 2-Way Splitter With Unity gain

### Typical applications:

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

DIV-G2-Y-205-xxxxx is a hot swap active splitter with 10MHz pass between the output and common ports. The module provides 0 dB gain with an input and output impedance of 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.



10 MHz operating frequency



Hot Swap & replaceable RF module



Unity Gain from common to multi ports



2-Way active splitter

### 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-Y-205	
Frequency Range	10MHz	
Gain	0 dB ± 1.5 dB	
Return Loss	50 ohm SMA (All RF ports are DC blocked)	
	18 dB typical, 15 dB minimum	
Isolation	17 dB typical, 14dB minimum	
1dB Gain Compression Point	+5 dBm minimum (output power)	
Noise Figure	10dB typical, 12 dB maximum	
RF Signal Range	<b>Input:</b> -70 to -10dBm (total power) Operational i/p range (Note that all Specifications are only 'typical' between -60 & -70dBm unless otherwise detailed).	
Max RF Input	16 dBm total power (Damage level, NOT operational)	
Phase Noise	1 Hz	<-130dBc/Hz
	10 Hz	<-143dBc/Hz
	100 Hz	<-153dBc/Hz
	1 kHz	<-160dBc/Hz
	10 kHz	<-163dBc/Hz
	100 kHz	<-165dBc/Hz
	1 MHz	<-165dBc/Hz
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	0.4	

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.

