

Model Number: SWF-G2S-Y-124-xxxx

10MHz Active Redundancy Switch With Unity gain

Typical applications:

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

SWF-G2S-Y-124-xxxxxx is a hot swap, redundancy switch operating over -10 to +10dBm 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 10dB, customer settable. It can be used to operate with optical receivers from the StingRay Genus chassis series.

Switch Module



Switch Module

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

Hot Swap &

Flexible Module Configurations choose from

a mixture of switch modules with different operating

Remote control & monitoring via RJ45

Ethernet port with SNMP & web browser interface

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

replaceable RF module

10 MHz operating frequency



2x1 Redundancy Switch with unity gain

frequencies.

Chassis Options



Local control & monitoring via HMI high resolution touchscreen



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



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



Secure protocols with SNMPv3





Indoor Chassis

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FACSIMILE









Preliminary Technical Specifications and Operating Parameters

RF Parameters		
Model Number		SWF-G2S-Y-124
Frequency Range		10MHz
Gain		0 dB ± 1.5 dB
Return Loss	50 ohm SMA (All RF ports are DC blocked)	21 dB typical, 18 dB minimum
Isolation		60 dB minimum (0dBm tone across operational bandwidth unselected input to output)
1dB Gain Compression Point		+12 dBm minimum (output power)
OIP3		+24 dBm minimum
Noise Figure		18dB typical, 20 dB maximum
RF Signal Range		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		16 dBm total power (Damage level, NOT operational)
Switching Threshold		2 dB to 10 dB Differential (Customer Settable)
Switching Delay		0 to 10 Seconds (Customer Settable)
DC Pass		DC Blocked
Phase Noise	1 Hz	<-128dBc/Hz
	10 Hz	<-141dBc/Hz
	100 Hz	<-152dBc/Hz
	1 kHz	<-159dBc/Hz
	10 kHz	<-162dBc/Hz
	100 kHz	<-163dBc/Hz
	1 MHz	<-163dBc/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		0.1

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. ETL SYSTEMS LIMITED TELEPHONE FACSIMILE Coldwell Radio Station +44 (0)1981 259020 +44 (0)1981 259021

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