

10 MHz Active Redundancy Switch With Unity Gain

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.

10 MHz
operating frequency

Hot Swap & Replaceable
RF module

2x1 Redundancy Switch
with unity gain

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 and HTTPS

Flexible Module Configurations
choose from a mixture of up and down converters with different operating frequencies.

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

Field replaceable internal reference source
and external reference inject port with auto detection (optional)



Indoor Chassis



Outdoor Unit



RF Parameters	
Model Numbers	SWF-G2S-Y-124-S5S5
Frequency Range	10MHz
Gain	0 dB \pm 1.5 dB
Flatness	850-2150MHz: \pm 1.0 dB 500-3150MHz: \pm 2.0 dB Any 36MHz: \pm 0.25 dB
Return Loss (All RF ports are DC blocked)	50 ohm SMA: 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	+18dBm (+15dBm for 75 Ohm)
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).
RF Input Signal Range	-55 to -5 dBm (total power) operational i/p range
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
Environmental	
Temperature	Operating: -20°C to +60°C Storage: -40°C to +90°C
Location	Indoor use within parent GENUS chassis (ODU options available)
Humidity	20 to 90% non-condensing
Altitude	10,000ft AMSL
Physical Dimensions & Parameters	
Weight	0.4kg typical
Dimensions	19mm Width x 87mm Height x 225mm Depth
Power Consumption	<3W
Module Swap	Hot Swap

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.

Note 3: All specs are for 50 Ohm connectors unless detailed otherwise.