

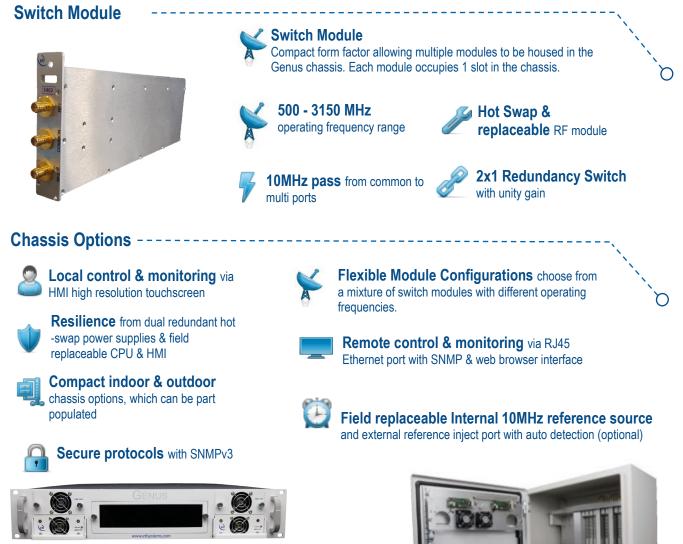
## S-band Active Redundancy

# **Switch** Unity gain, 500-3150MHz with 10MHz pass

### **Typical applications:**

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

**SWF-G2S-S6-123-xxxx** 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 can be used to operate with optical receivers from the StingRay Genus chassis series.







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**FACSIMILE** 

#### Outdoor Unit





#### **Preliminary Technical Specifications and Operating Parameters**

		RF Parameters
Model Number		SWF-G2S-S6-123
Frequency Range		500 to 3150 MHz (S-band)
Gain		0 dB ± 1.5 dB
Flatness	850-2150MHz	± 1.0 dB
	500-3150MHz	± 2.0 dB
	Any 36MHz	± 0.25 dB
Return Loss (All RF ports are DC blocked)	50 ohm SMA	18 dB typical, 12 dB minimum
	50 ohm BNC	18 dB typical, 10 dB minimum
	75 ohm BNC	16 dB typical, 8 dB minimum
	75 ohm F-type	16 dB typical, 8 dB minimum
Isolation		-40 dB (-10dBm tone across operational bandwidth unselected input to output)
1dB Gain Compression Point		+7 dBm minimum (output power)
OIP3		+18 dBm minimum
Noise Figure		12 dB maximum
Group Delay Variation		2ns over full band, 1ns over any 36MHz
RF Input Signal Range		-55 to –5 dBm (total power)
Max RF Input		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)
		Non RF Parameters
Power Consumption		<3W
Module Swap		Hot Swap
		Control, Monitoring & Alarms
Temperature		Each module monitored
Monitoring Includes		Status of amplifier stage, RF input power, RF output power
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.

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