

Dual External Reference Redundancy Switch Card

10MHz to 100MHz

10 MHz to 100 MHz external reference inject switch card, with 2 inputs to accept a main and a backup reference source for Genus 2U chassis.

The switch card has full control and monitoring via the parent chassis HMI, or remotely via parent chassis Ethernet. The reference source is switchable between the on-board ovenised oscillator or this external reference switch card. This must be used with the GNS Internal Source.

Resilience

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

Flexible module configurations

choose from a mixture of switch modules with different operating frequencies.

Remote control & monitoring

via RJ45 Ethernet port with SNMP & web browser interface



Local control & monitoring

via HMI high resolution touchscreen

Field replaceable internal reference source

Secure protocols with SNMPv3 and HTTPS

Compact

indoor and outdoor chassis options, which can be part populated

Switch Module



Compact

form factor allows multiple modules to be housed in the GENUS chassis. Each module occupies 1 slot in the chassis.

10 - 100MHz

operating frequency range

Hot swap & replaceable RF module

2x1 redundancy switch



RF Parameters	
Model Numbers	SWF-G2S-Y-119-S5
Frequency Range	10MHz to 100MHz
Size	1 slot wide
Capacity	Dual port (2 inputs for main and backup)
Local Control & Monitoring	Local via parent chassis HMI See 2U GENUS chassis datasheet
Remote Control & Monitoring	Via Ethernet 10/100Base T. TCP/IP, SNMPv3, HTTPS, Web browser See 2U GENUS chassis datasheet
MTBF	50,000 hours
Switching Method	Manual via front panel HMI, automatic (based on input RF level detection) and remote via RJ45 web browser interface. ETL TCP/IP protocol or SNMPv2/3
Ref. RF Power Monitor	-15dBm to +15dBm (For indication only)
Max. RF Input	+10dBm Operating output at max gain +15dBm Absolute (damage level)
Gain	Controllable via the internal reference distribution card, Max +10dB \pm 2 Min -15dB \pm 2
Gain Steps	1dB \pm 0.5
P1dB Compression	+10dBm output @ maximum gain
Return Loss	14 dB typical
Connectors	SMA 50 Ohm
DC Consumption	<2W nominal
Environmental	
Storage Temperature	Storage: -20°C to +75°C
Location	Indoor use only, within parent GENUS chassis
Physical Dimensions & Parameters	
Weight	<0.3kg. Card and external link module
Dimensions	90mm x 20mm x 250mm

For internal reference source specifications, refer to the product datasheet.

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.