

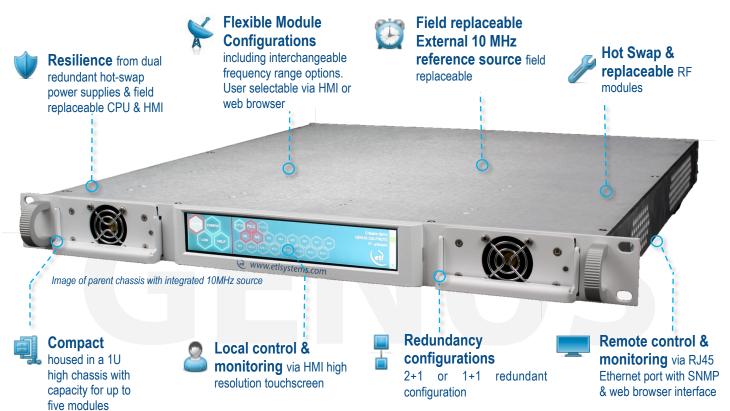
Model Number: SWF-G1S-Y-113A-S5

Genus Series Dual 10 MHz External Reference Redundancy Switch Card

10 MHz external reference inject switch card, with 2 inputs to accept a main and a backup 10 MHz reference source for Genus 1U chassis. The 10 MHz 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 10 MHz oscillator or this external reference switch card. This must be used with the GNS Internal Source.

Typical applications:

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



Chassis - Specification		
Dimensions / Weight / Colour	1U high x 550mm deep x 19" wide / <10 kg / RAL9003—White (Semi-matte)	
Capacity	Total of 17 module slots. Note that 1 slot may be used for fan (if required) and 1 slot may be used for 10 MHz EXT inject module (if required). Note actual modules may require >1 slot. Refer to required module spec table.	
Temperature	Operating: 0°C to +45°C / Storage: -20°C to +75°C	
Location / Humidity / Altitude	Indoor use only / 20 to 90% non-condensing / 10,000 feet AMSL (Operational) 30,000 feet AMSL (Storage) Above Mean Sea Level	
Control & Monitoring	Local: HMI touch screen Remote: Ethernet via RJ45, 10BaseT/100 BaseTx. TCP/IP, SNMP V3 & HTTPS & Web browser interface HMI and CPU field replaceable. Each module independently monitored and reported.	
MTTR	20 minutes (15 minutes to retrieve spare part and 5 mins to replace) Applies to LRUs only and assumed in house stock	
AC Input / Consumption	85-264Vac 50/60Hz / 150W	
PSU Redundancy	Dual redundant and alarmed Diode OR. Hot swappable	
Input & Output ports	Dependant upon module fitted	















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10MHz External Source Card

Field-replaceable, compact form factor module card to be housed in 1U chassis. Each module uses 1 slot in the chassis.

General Specifications				
Model Numbers	SWF-G1S-Y-113A-S5			
Frequency Range	101	MHz		
Size	1 slot	t wide		
Capacity	Dual 10 MHz port (2 inputs f	or main and backup 10 MHz)		
Local Control & Monitoring	Local via parent chassis HMI. See 1U Genus Chassis Datasheet			
Remote Control & Monitoring	Via Ethernet 10/100Base T. TCP/IP, SNMPv3, HTTPS, Web browser.	See 1U Genus Chassis Datasheet		
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			
Max RF Input		utput at max gain e (damage level)		
Gain	Controllable via the 10 MHz distribution card, Max +10dB ± 2 Min –15dB ± 2			
Return Loss	14 dB typical			
Connectors	SMA 5	0 Ohm		
DC Consumption	<2W n	ominal		

Environmental Conditions				
Storage Temperature	-20°C to +75°C			
Location	Indoor use only with-in parent Genus chassis			

Physical Dimensions & Parameters		
Weight	<0.3Kg. Card and external link module	
Dimensions	TBC	

For internal 10MHz 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.



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