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ETL Systems
New technologies
in RF distribution

Model Number: GNS-196-1U

Genus 1U Chassis

With Internal 10 MHz reference source.

Typical applications:

- Teleports, ground stations, maritime high resilience applications and unmanned sites.
- High resilience RF distribution where single points of failure can be minimised.
- Redundancy applications for remote satellite teleports.
- V/HTS gateways
- Signal distribution – Amplifiers, BUC/LNB Power Supply's, Frequency Converters, Matrices, RF over Fibre, Redundancy Switches, Test Loop Translators are available.

Flexible & resilient RF signal management

The Genus chassis has a modular design which can house any combination of compatible modules within the unit. Supplying operators with a flexible and scalable solution, that reduces spare parts and rack space requirements.

The 1U chassis houses up to 17 RF modules including Amplifiers, BUC/LNB Power Supplies, Frequency Converters, Matrices, RF over Fibre, Redundancy Switches and Test Loop Translators, which can be mixed. Providing a compact 1U system that is smaller in comparison with traditional 19" solutions, which could require 2U, 3U, 4U or more to achieve the same functionality. The Genus chassis provides a cost-efficient solution with field-replaceable components.

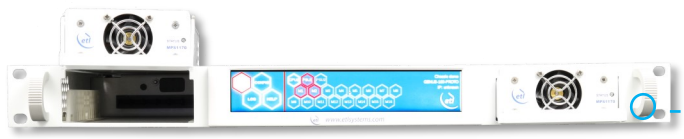
The RF modules are field-serviceable and can be inserted whilst the shelf is in service, giving excellent levels of flexibility and resilience. With additional reliability from dual redundant hot-swap power supplies & field serviceable HMI, CPU and optional user replaceable internal 10MHz reference source with external 10MHz input options.











Compact & flexible 1U chassis holding up to 17 RF modules, which can be mixed.

Local control & monitoring via front panel capacitive HMI touchscreen.

10MHz reference source User replaceable internal 10MHz reference & distribution module. External 10MHz input card also available.

Remote control & monitoring via RJ45 Ethernet via RJ45, 10BaseT/100BaseTx, ETL TCP/IP protocol, SNMPv3 & Web Browser Interface

Secure Communications with SNMPv3, HTTPS

Flexible Signal Distribution
Frequency converters, Redundancy Switches (N+1), RF Over Fibre, Matrices and Power Supply Modules are available.

Resilience from dual redundant hot -swap power supplies & field serviceable RF modules, HMI & CPU

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V 1.0 E&OE

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Model Number: GNS-196-1U

Technical specifications and operating parameters

General Specifications	
Capacity	Up to 17 RF modules **Note:** Actual number dependent upon module type fitted
Dimensions	1U high x 550mm deep x 19" wide
Weight	<10 kg
Colour	RAL9003 White (Semi-Matte)
AC Power	85-264V AC (50/60Hz)
AC Consumption	150W Max. consumption at steady state
PSU	Dual redundant & alarmed, Diode OR, Hot-swap
CPU	User replaceable
RF Modules	Various. Hot-swap or field replaceable dependant upon module type

Control & Monitoring	
Local Control	HMI, capacitive touchscreen. Hot-swap
Remote Control & Monitoring	Ethernet via RJ45, 10BaseT/100BaseTx ETL TCP/IP protocol SNMPv3 & HTTPS Built-in Web Server

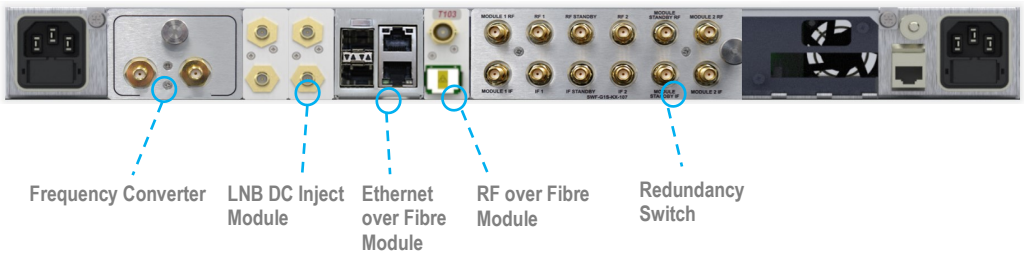
Environmental		
Operating temperature		0 to 45˚C
Location		Indoor use only
Storage temperature		-20˚C to +75˚C Not Powered
Humidity		20% - 90% non-condensing Relative Humidity
Altitude	Operational	10,000 ft AMSL (Above Mean Sea Level)
	Storage	30,000 ft AMSL (Above Mean Sea Level)

Internal 10MHz reference and distribution module for 1U Genus chassis. The integrated 10MHz card has full control and monitoring via the parent chassis HMI or RJ45. The 10MHz reference source is switchable between this on-board ovenised 10MHz oscillator or the customer supplied external reference, connected to slot 17 EXT input module (if fitted). See separate datasheet for external 10MHz reference source inject card options.

Internal 10MHz —High Stability Ovenised Oscillator		
Frequency Setting	10±0.000001 MHz	
Output Type	Sinewave	
Output Power Range	-10dBm to +10dBm	±2dBm
Output Power Steps	1dB ±0.5	
Harmonic Rejection 2nd 3rd 4th 5th	 >40dBc >50dBc >60dBc >60dBc	At 0dBm power out.
SSB Phase Noise dBc/Hz	0dBm 10MHz src	
10 Hz 100 Hz 1000 Hz 10 000 Hz 100 000 Hz	<-124 <-143 <-147 <-149 <-152	Typical
Frequency Stability: *Over operating temperature* *Short-term (per second)* *Load change(±5%)* *Power supply variations(±5%)*	 $< \pm 5 \times 10^{-9}$ $< 5 \times 10^{-12}$ $< \pm 5 \times 10^{-10}$ $< \pm 2 \times 10^{-8}$	
Frequency Aging *Per Day* *Per Year*	 $\pm 5 \times 10^{-10}$ $\pm 5 \times 10^{-8}$	
Alarms	10MHz source RF power level. Card operational status.	User settable auto switchover for reference source (Int/Ext)
Hot-Swap	Field replaceable by user.	

Example of multiple module configuration

For modules technical specifications, refer to product specific 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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