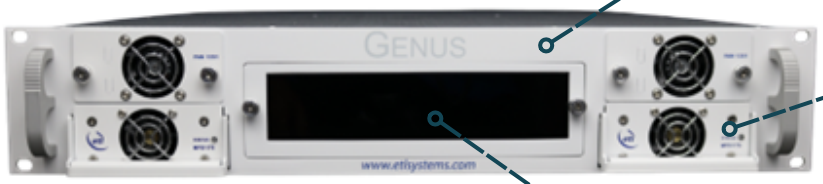
Genus Chassis

Flexible & resilient RF signal management

The Genus is a new generation of equipment for the ground segment to meet today's and future ground segment V/HTS requirements.
The 2U Genus chassis accommodates up to 17 RF modules. These can be inserted whilst the shelf is in service giving excellent levels of flexibility and resilience.

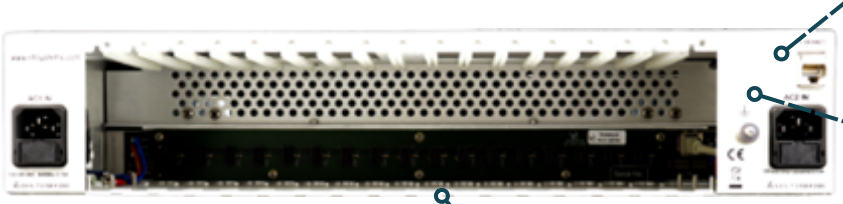


Compact & Flexible
2U chassis holding up to 17 RF modules, which can be mixed.

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

Local control & monitoring
via front panel capacitive HMI touchscreen.

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.

General Specifications		
Capacity		Up to 17 modules
Dimensions		2U high x 550mm deep x 19" wide
Weight		<10 kg
Colour		RAL9003 White (Semi-Matte)
AC Power		85-264V AC (50/60Hz)
AC Consumption		275W Max. consumption at steady state
PSU		Dual redundant & alarmed, Diode OR, Hot-swap
RF Modules		Refer to specific module datasheet
Reliability		
MTTR		20 minutes 15 minutes to retrieve spare part and 5 mins to replace. Applies to LRUs only and assumed in house stock.
MTBF	Chassis	>250,000
	CPU	>250,000
Field serviceable components		RF modules, CPU & HMI & Fans
Hot-swap components		Dual redundant power supplies
Control & Monitoring		
Local Control		HMI, capacitive touchscreen
Remote Control & Monitoring		Ethernet via RJ45, 10BaseT/100BaseTx ETL TCP/IP protocol, HTTPS SNMPv3 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	2,000m AMSL (Above Mean Sea Level)
	Storage	8,000m AMSL (Above Mean Sea Level)

RF Module Options						
Amplifier	BUC/LNB Power Supply	Frequency Converter	Matrices	Redundancy Switch	RF Over Fibre	Test Loop Translator (TLT)

Custom RF modules may be available - If you have a requirement which isn't listed in the RF module options table please contact us.

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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