



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.

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.



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



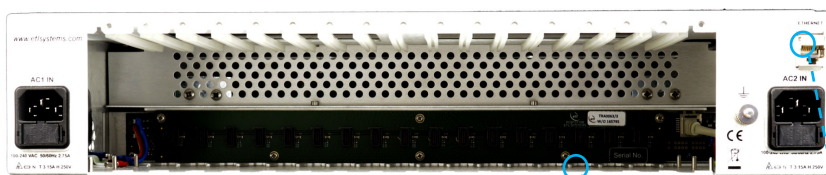
Resilience from dual redundant hot-swap power supplies & field serviceable RF modules, HMI, CPU & Fans



Local control & monitoring via front panel capacitive HMI touchscreen.



Remote control & monitoring via RJ45 Ethernet via RJ45, 10BaseT/100BaseTx, ETL TCP/IP protocol, SNMP & 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.





Technical specifications and operating parameters

General Specifications	
Capacity	Up to 17 RF 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 SNMPv2/3 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)

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.

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.

