

GENUS 2U Redundant Chassis

GENUS is ETL's next generation of ground segment equipment, designed 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.

Resilience

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

Local control & monitoring

via front panel capacitive HMI touchscreen.



Secure communications
with SNMPv3, HTTPS

Flexible signal distribution

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

Remote control & monitoring

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



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
Storage Temperature		-20°C to +75°C Not Powered
Location		Indoor use only
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)

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.