

GENUS 2U modular chassis

Flexible & resilient RF signal management

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

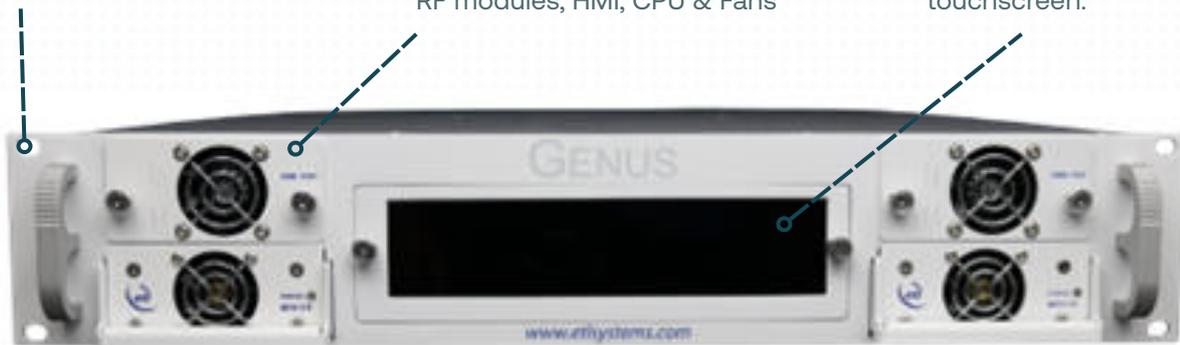
2U chassis holding up to 17 RF modules, which can be mixed.

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.