

GENUS 3U 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 3U 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

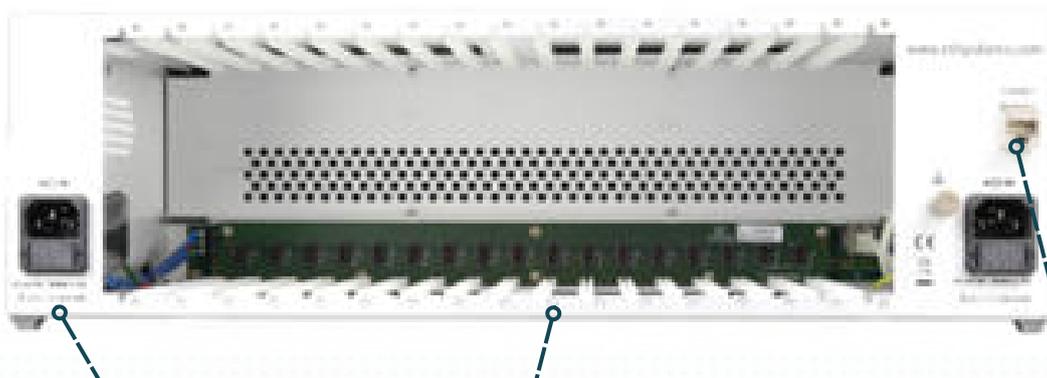
3U chassis holding up to 17 RF modules, which can be mixed.

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

Splitters & combiners

4-way high performance active splitter and combiner RF modules. With fixed / variable gain & slope options, optional dual redundant amplifiers & LNB powering

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	3U 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								
Module Functionality Options	Operating Frequency	Active	Gain	Slope Compensation	LNB Powering	Dual redundant amplifiers	RF level detection	RF Power Limiting
	L-band		Variable	Variable				
4-way splitter modules	✓	✓	✓	✓	✓	✓	✓	
4-way combiner modules	✓	✓	✓	✓		✓	✓	✓

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.