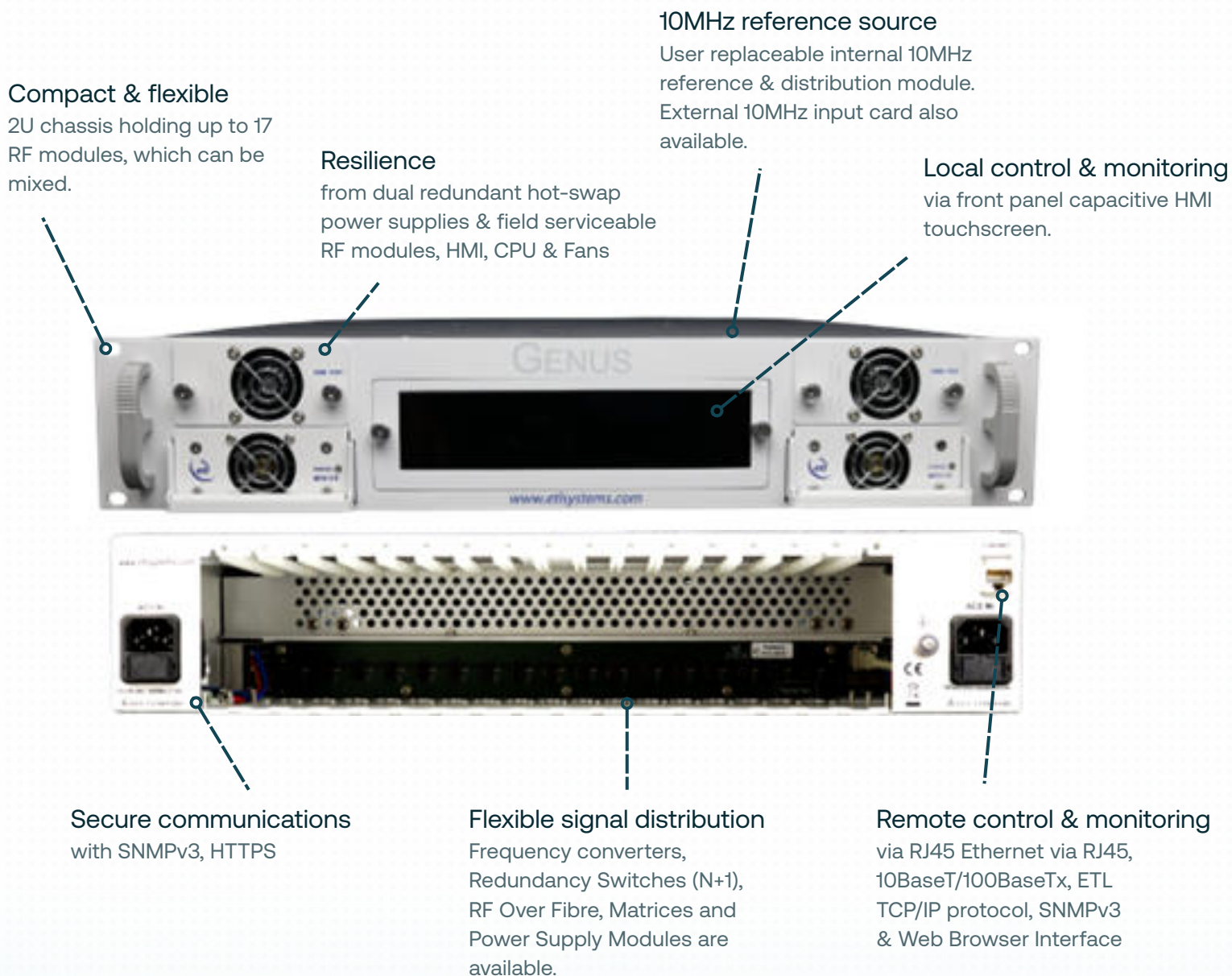


# GENUS 2U modular chassis

With internal 10 MHz reference source.

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





| 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<br>15 minutes to retrieve spare part and 5 mins to replace.<br>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<br>ETL TCP/IP protocol, HTTPS<br>SNMPv3<br>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.