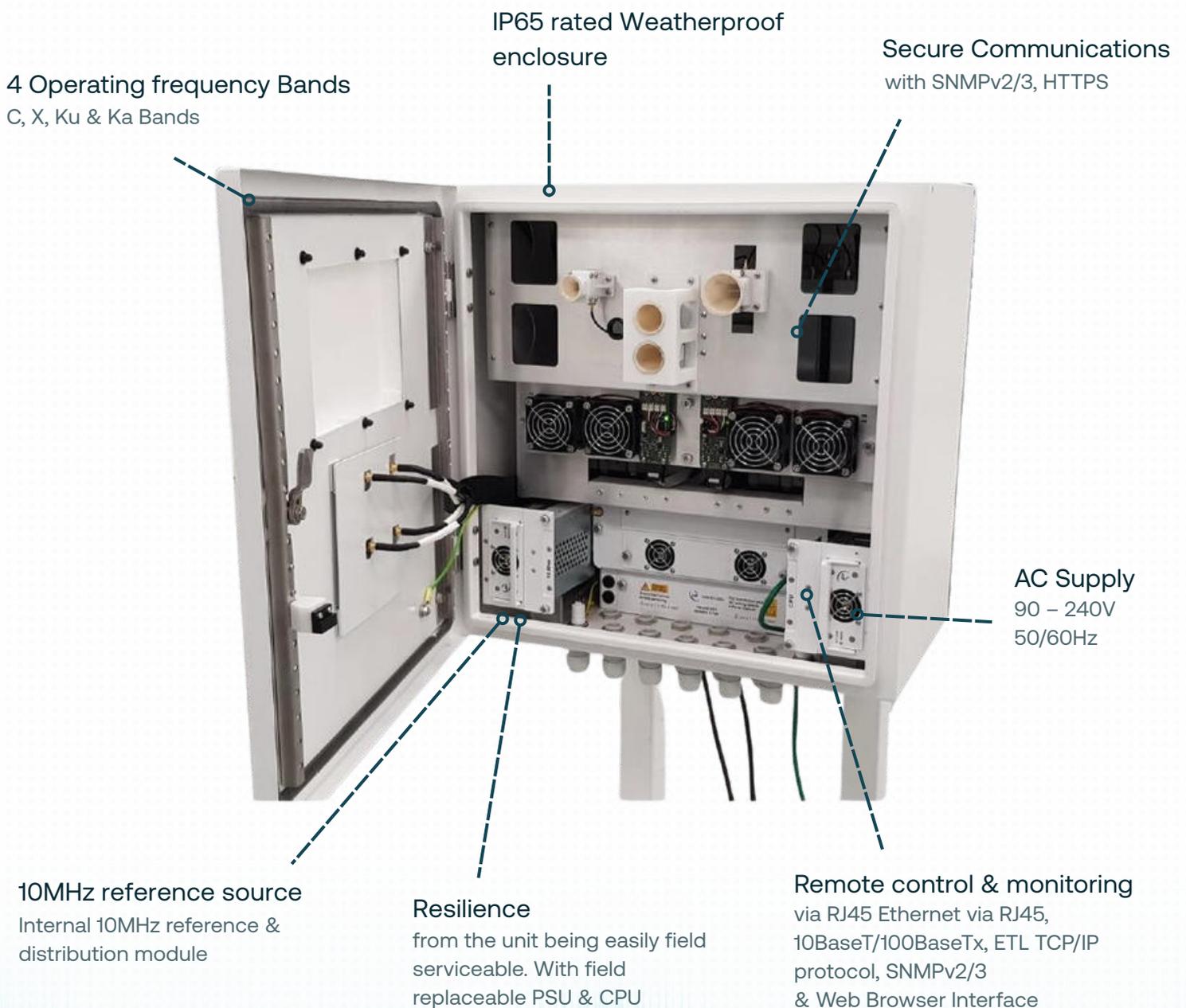


Quad Band ODU Satellite Simulator System

The ODU Quad Band Satellite Simulator is based on the Genus platform and operates in C, X, Ku and Ka-Bands (note that only one band can be operational at a time). The unit is a robust weatherproof IP65 rated enclosure, and features field replaceable 10MHz reference modules, PSUs and CPUs. The unit also benefits from remote control and monitoring via an RJ45 port with Web Browser Interface & SNMP.



RF Parameters						
Frequency Band		C-Band	X-Band	Ku-Band	Ka-Band	
Input Frequency		5.85 – 6.425 GHz (Fixed Frequency)	7.90 – 8.40 GHz (Fixed Frequency)	13.25 – 14.50 GHz (Input frequency user configurable via software control in 1 MHz steps)	Mode 1: 27.50 – 28.50 GHz Mode 2: 28.50 – 29.50 GHz Mode 3: 29.50 – 30.50 GHz Mode 4: 30.00 – 31.00 GHz Frequency modes user configurable via software control	
Output Frequency		3.625 – 4.20 GHz (Fixed Frequency)	7.25 – 7.75 GHz (Fixed Frequency)	10.70 – 12.75 GHz (Output frequency user configurable via software control in 1 MHz steps)	Mode 1: 17.30 – 18.30 GHz Mode 2: 18.30 – 19.30 GHz Mode 3: 19.20 – 20.20 GHz Mode 4: 20.20 – 21.20 GHz Frequency modes user configurable via software control	
Test-Loop Translator Module		TLT-SS-D-C2C1-1012-S5S5 (See TLT datasheet for full RF specification)	TLT-SS-D-X3X3-1007-S5S5 (See TLT datasheet for full RF specification)	TLT-SS-D-K3K1-1053-S5S5 (See TLT datasheet for full RF specification)	TLT-SS-D-K4KX-1024-K5K5 (See TLT datasheet for full RF specification)	
Tx Antenna	Gain (typ)	7 dBic	7 dBic	12 dBi ¹	15 dBic	
	Polarisation	RHC	RHC	Linear (H)	RHC	
	Beamwidth (typ)	65°	65°	50°	20°	
Rx Antenna	Gain (typ)	7 dBic	7 dBic	12 dBi ¹	14.5 dBic	
	Polarisation	LHC	LHC	Linear (V)	LHC	
	Beamwidth (typ)	65°	65°	45°	30°	

¹ Horizontal or Vertical available. 3dB polarisation loss if used with circular polarised antenna

Interface, Monitoring & Alarms	
Control Method	Remote Control & Monitoring Ethernet via RJ45, 10BaseT/100BaseTx ETL TCP/IP protocol SNMP v3 Built-in Web Server (HTTPS)
AC Input	85-264Vac 50/60Hz Fused (L+N) Use T 3.15 A, 250V Ceramic 5x20mm x2 Lightning protection suitable for local installation conditions should be provided

Reference	
Internal Reference Stability	± 5 x 10 ⁻⁸ (over 0 to 50°C)
External Reference	Input Freq. 10 MHz. Auto detection (External Reference Optional)
External Ref. Input Level	+3 dBm ± 3dB

Environmental	
Operating Temperature	-20 to 50°C
Storage Temperature	-20°C to +75°C
Location	Indoor and Outdoor (IP65)
Humidity	20 to 90% non-condensing, relative humidity
Altitude	10,000ft / 3,000m above mean sea level

Physical Dimensions & Parameters	
Dimensions	500mm high x 500mm wide x 300mm deep
Weight	40 kg

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.

