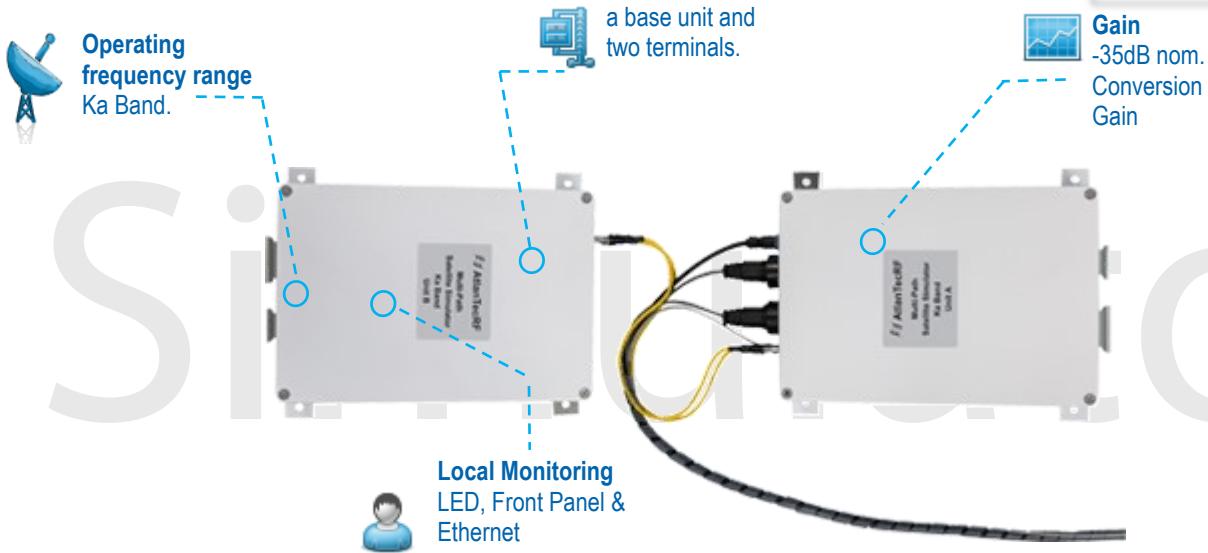


Multi-Path Satellite Simulator System

The MSS series of Multi-Path Satellite Simulators simultaneously talk to two sets of ground equipment, enabling the user to run extensive and prolonged tests without the need to go 'live' on a satellite.

- Simultaneously tests two satellite terminals
- Models for X, Ku, DBS, Ka and Q bands
- Linear and circular polarisation options
- Fixed installation or portable
- Ethernet and local controls
- 3 part, base units and terminals
- 2 part option – Ethernet control



General Specifications	
LO Frequency Steps	25MHz
Maximum Input Level	+10dBm
Conversion Gain	-35dB nom. (see options)
Conversion Gain Flatness	+/-2dB typ.
Attenuation Range	60dB min. (see options)
Attenuation Control	1.0dB Steps
Impedance	50 ohms
Input VSWR	1.8:1 typ. (see options)
Output VSWR	1.8:1 typ. (see options)
Signal Related Spurious	-25dBc typ.
LO Related Spurious & Harmonics	-30dBm typ.
Non Signal or LO Related Spurious	-60dBc min.
Input Power	80-240V, 50-60Hz
Input Power Connector	IEC with Fuse
Operating Temperature	0 to +50C (see options)
Storage Temperature	-10 to +70C

LO Phase Noise (dBc/Hz) typical				
Offset Frequency (Hz)	LO Frequency (GHz)			
	2.0	10.0	12.0	25.0
100	-80	-70	-65	-60
1K	-90	-85	-75	-70
10K	-95	-90	-80	-75
100K	-95	-90	-80	-80
1M	-120	-115	-115	-110

Environmental	
Ethernet control.	local and remote
Power	
Charger Power	100-240V 50/60Hz input (internal and external options)
Internal Battery	12V, 14AH
Physical	
Size exc. connectors etc: Base Unit - inches (mm) Transponder - Inches (mm)	W10 (255) x H5.7 (145) x D12.6 (320) W13 (330) x H4.5 (115) x D9 (230)
Input Connector (see options)	2.92mm Female Ka Band SMA Female Ku Band
Output Connector	SMA Female
Reference Input Connector	BNC Female
Ethernet Connector	RJ45

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.

Options:

- SS01 Two Part Option - Ethernet Only
- SS02 Internal Battery Charger 100-240V, 50/60Hz input
- SS03 Switchable Internal 10MHz OCXO Reference (Frequency Stability, +/- 0.05ppm over 0 to +50C, +/-0.1ppm per year)
- SS04 LCD Display and Digital Attenuator (Ethernet Control).
- SS05 Linear Polarisation Antenna
- SS06 Circular Polarisation Antenna
- SS07 One Part Option - Ethernet only.

