



Multi-path Satellite Simulator System

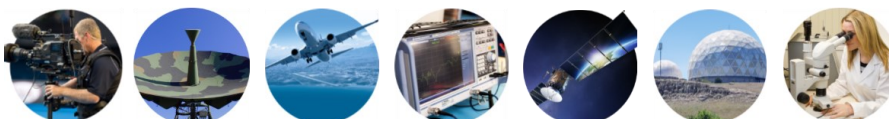
The MSS series of Multi-Path Satellite Simulators simultaneously talk to two sets of ground equipment, enabling the user to run extensive and prolonged tests without the need to go 'live' on a satellite.

- 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



General Specification

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





Phase noise dBc/Hz (typical)

Offset Frequency	LO Frequency (GHz)			
	2.0	10.0	12.0	25.0
100Hz	-80	-70	-65	-60
1KHz	-90	-85	-75	-70
10KHz	-95	-90	-80	-75
100KHz	-95	-90	-80	-80
1MHz	-120	-115	-115	-110

Environmental

Ethernet Control	local and remote
Operating Temperature	0 to +50C (see options)
Storage Temperature	-10 to +70C

Power

Charger Power	100-240V 50/60Hz input (internal and external options)
Internal Battery	12V, 14AH

Physical

Size exc. connectors etc:	W10 (255) x H5.7 (145) x D12.6 (320)
Input Connector	2.92mm Female Ka Band SMA Female Ku Band
Output Connector	SMA Female
Reference Input Connector	BNC Female
Ethernet Connector	RJ45

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.

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.

