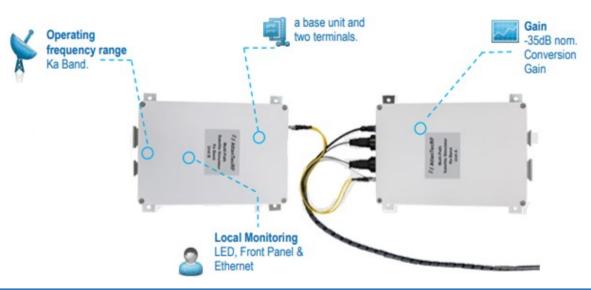


## **MSS Series**

## **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			



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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: 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			2.92mm Female Ka Band SMA Female Ku Band				
Output Connector			SMA Female				
Reference Input Conr	nector		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.

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**MSS Series**