



SpaceCom Antenna

- ✓ 3-Axis Antenna System
- ✓ Medium-gain L-band Antenna System
- ✓ Tracks either MSAT-1 or MSAT-2
- ✓ Mitsubishi & Westinghouse Compatible
- ✓ Includes HPA (high power amplifier)
- ✓ Includes LNA (low noise amplifier)

SpaceCom 3-Axis Antenna System

Manufactured by SpaceCom, the medium-gain L-band antenna system is designed for use with Westinghouse Series 1000 and Mitsubishi mobile satellite terminals over the MSAT Network. The antenna is self-tracking based on patented beam squint technology. The simple and robust electromechanical system, with one motor per free axis, provides full coverage in azimuth and elevation. Tracking is accomplished by measuring signals being continuously broadcast from the satellite. The antenna includes; LNA (low noise amplifier), HPA (high power amplifier) and tracking receiver circuitry to ensure communication even in adverse circumstances.

Characteristics

Simple & efficient tracking based on signal strength measurement. Electronics and mechanics protected by a securely mounted but easy to remove fiberglass dome.

The antenna can be configured to track either one of the MSV satellites. Easily swapped chips (tracking ICs) for both satellites (MSAT-1 and MSAT-2) are provided.

The antennas will function without any modifications to the Westinghouse and Mitsubishi terminals.

Specifications - 3 Axis Antenna (SPAC3A)

Form Factor		Ship Motion	
Size:	D-300mm (12") H-300mm (12")	Velocity:	30 Knots
Weight:	6.2 kg (13.7 lbs.)	Induced Acceleration:	0.5 G tangential
Environment		Turning Rate:	12°/s
Operating:	-30°C to +43°C	Turning Acceleration:	1°/s
Storage:	-55°C to +85°C	Roll	Amplitude ± 25° Period 8s
Relative Humidity:	up to 98% at 38°C	Pitch	Amplitude ± 15° Period 5s
Rain:	5cm/hr (0.5-4.5 mm droplets)	Yaw	Amplitude ± 8° Period 50s
Icing	(survival): up to 25 mm		
Solar Radiation:	1120w/m ²		
Shock (survival): ½ Sinewave shock w/peak of 20g and period of 11 ms in any plane			
Salt Spray, fungus, dust, sand, and gravel in accordance with SAE J1455 Section 4.3			

Compliant with FCC 02-134 Section 25.216 Limits on Emissions from Mobile Earth Stations for Protection of Aeronautical Radionavigation-Satellite Service

NOTE: The SpaceCom antenna requires RF unit (AU110A) with all Mitsubishi mobile terminals

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