

China Starwin 0.9m SOTM Flat Panel Antenna



General Description of 0.9m SOTM Flat Panel Antenna

The 0.9m Satcom On-The-Move (SOTM) antenna system provides high data rate, reliable Ku band satellite communications while vehicle is moving.

The antenna integrates phased array flat panel, tracking receiver, gyro stabilization and LNB, providing access to voice, video and internet connectivity for vehicles and trains. The electrical performance is compliant with FCC and ITU-RS-580 sidelobe specifications and Intelsat, Eutelsat, SES, AsiaSat, ChinaSat, etc requirement.

Features:

- Reliable high data rate satellite communications
- Phased array technology, Flat panel antenna
- Low profile and slim design
- Automatic satellite acquisition and tracking
- Gyro orientation + beacon tracking mode
- Special plastic with light weight and other advantages

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Technical Specification:

Item		Equivalent size: 0.9 M
Working Frequency	Tx GHz	14.00-14.50
	Rx GHz	12.00-12.75
Gain	Tx dBi	≥39.5
	Rx dBi	≥38.5
VSWR	Tx	1.25
	Rx	1.25
Interface		WR-75
Isolation Tx to Rx dB		≥85
Polarization		Linear, Automatic adjustment
XPD dB		≥30
Sidelobe Envelope		ITU-R S.465-6
Azimuth & Elevation Range	Az: 360° Continuous	
	El: 0°-90°	
Polarization Range		360° Continuous
Tracking Accuracy		≤0.3β0.5° β0.5°is Rx Beam Width
Acquire Time sec		≤120
Max Angular Velocity	Az≥80°/s	
	El≥60°/s	
Max Angular Acceleration	Az≥200°/s ²	
	El≥200°/s ²	
Working Temperature	-25°C ~ +55°C (Inside cabin)	
	-40°C ~ +65°C (Outside cabin)	
Shock Vibration		MIL-STD-810F
Power		220VAC, 50Hz
Power Consumption		≤350W
Weight		≤85kg
Size		Φ53.15" × 20.28" Φ1350mm×515mm

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