

SUNCOM 11.3METER ANTENNA

Features

- Meets or exceeds ITU-RS 580-5 and INTELSAT requirements
- High G/T, excellent pattern characteristics
- Self-aligning aluminum reflector, no field alignment
- Factory feed system testing
- All of steel parts to be processed by hot dipped zinc
- 2-port or 4-port Linear/Circular Feed
- Field changeable feed system, switchable circular to linear C-band
- Foundation hardware kit included
- Air or ocean transport packing



11.3m antenna installed in China

Options

- Specialized feed systems (e.g extended ,multi-band, Ka Band, DBS band)
- Antenna control system with tracking (Steptrack, Program Tracking and Inclined Orbit Tracking)
- Reflector and feed deicing systems
- ODU Support Kits
- Lightning Rod Kit
- Grounding Kit
- Cable-Mounting Kit
- Turnkey installation and testing
- High wind configuration
- Extended Az travel
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For any specialized request please contact Suncom sales office

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ELECTRICAL SPECIFICATION

Type	1130FC		1130FK	
	C-Band		Ku-Band	
Operating Frequency, GHz	Receive	Transmit	Receive	Transmit
		3.4~4.2	5.85~6.725	10.95~12.75
Gain, Mid-band, dBi	51.77	55.35	61.53	62.32
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, Db	33	33	33	33
Axial Ratio (Circular-Polarized) 2 port/4 port	1.30/1.06	1.09/1.06		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature				
10° Elevation	34°K		57°K	
30° Elevation	26°K		47°K	
50° Elevation	23°K		13°K	
-3dB Beam Width, Mid-band	0.424°	0.28°	0.137°	0.126°
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.2/0.25	0.2/0.25	0.25/0.35	0.25/0.4
Isolation, Tx to Rx, dB	90		85	
First Sidelobe 90% Peaks under Following Envelop	Meet with ITU-RS 580-5 and INTELSAT			

MECHANICAL SPECIFICATION

Antenna Diameter	11.3 m
Antenna Type	Cassegrain
Mount Type	El. over Az.
Surface Accuracy (RMS)	≤ 0.5mm
Antenna Pointing Range	
Azimuth	±85°, ±60°(Continuous)
Elevation	5°~90°(Continuous)
Polarization	180°(Continuous)
Drive Mode	Motorized
Motor Drive System	
Azimuth Travel Rate	0.02° /S (0.04° /S)
Elevation Travel Rate	0.02° /S (0.04° /S)
Polarization	1° /S

ENVIRONMENTAL SPECIFICATION

Operational Wind	72km/h Gusting to 97km/h
Survival Wind	216km/h
Temperature	-40°C ~ + 60°C
Relative Humidity	100%
Solar Radiation	1135Kcal/ h/ m ²
Seismic (Survival)	0.3g (H), 0.15g (V)
Ice Loading	13mm Operational; 25mm Survival