

SUNCOM 9.0METER 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



9.0m antenna installed in New Zealand

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

For any specialized request please contact Suncom sales office

China Sun Communication Group Limited
Building C, Hangchuang International Plaza, No 239 Shenzhou 4th Road,
Xi'an, China 710100
Email: sales@chinasuncom.com
Phone: +86 29 84160923
Fax: +86 29 84160923-16



ELECTRICAL SPECIFICATION

Type	900FC		900FK	
	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	49.9	53.5	59.4	60.8
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	35°K		60°K	
30° Elevation	26°K		50°K	
50° Elevation	24°K		49°K	
-3dB Beam Width, Mid-band	0.55°	0.4°	0.19°	0.16°
Typical G/T (EI > 10°)	30.5dB/K (30° LNA)		37.3dB/K (70° LNA)	
Tx. Power Capability, KW		3		1
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.2/0.3	0.2	0.25	0.2
Isolation, Tx to Rx, dB	90		85	
First Sidelobe	-14		-14	
90% Peaks under Following Envelop	29-25log θ (1° ≤ θ < 20°)		29-25log θ (1° ≤ θ < 20°)	

MECHANICAL SPECIFICATION

Antenna Diameter	9.0 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	Manual or Motorized
Motor Drive System	
Azimuth Travel Rate	0.11° /S (0.02° /S)
Elevation Travel Rate	0.17° /S (0.02° /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