

GS7.3M EARTH STATION ANTENNA

Key Features

- * Meets or Exceeds CCIR 580 and INTELSAT Requirements
- * High G/T, Excellent Pattern Characteristics
- * Hot-dipped Galvanized Steel Ground Mount Assembly
- * Antenna Operating in 800MHz Bandwidth
- * 2-port, 3-port or 4-port Linear/Circular Feed
- * Field Changeable Feed System, Switchable Circular to Linear C-band
- * Antenna Az 0°~360°(Continuous) Pointing Range

Antenna Accessories

- * Motorization Kits
- * 50 Satellite Positions Preset
- * Limit Switches
- * Steptrack
- * ODU Support Kits
- * Factory Feed System Testing and Documentation
- * Ocean Transport Packing
- * Foundation Kit
- * Lightning Rod Kit
- * Grounding Kit
- * Cable-Mounting Kit
- * Major Subsystem Spare Part Kits
- * Deicing or Anti-icing

ELECTRICAL SPECIFICATION

	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
Operating Frequency, GHz	3.4~4.2	5.85~6.725	10.95~12.75	13.75~14.5
Gain, Mid-band, dBi	48	51.6	57.5	58.9
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 Feed	1.30	1.09		
4-Port Feed	1.06	1.06		
VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature	2 port feed		2 port feed	
10° Elevation	43°K		66°K	
30° Elevation	32°K		52°K	
50° Elevation	29°K		47°K	

-3dB Beam Width, Mid-band	0.72°	0.47°	0.23°	0.2°
Typical G/T (EI> 10°)	29.3dB/°K (30° LNA)		36.1dB/°K (70° LNA)	
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.25	0.2	0.25	0.25
Isolation, Tx to Rx, dB	90		85	
Rx/Rx,Tx/Tx Linear,dB	30		30	
Rx/Rx,Tx/Tx Circular,dB	22		22	
Sidelobes	CCIR 580-5			

MECHANICAL SPECIFICATION

Antenna Diameter	7.3m
Antenna Type	Cassegrain/Ring focus
Mount Type	El. over Az.
Surface Accuracy (RMS)	≤ 0.5mm
Antenna Pointing Range	
Azimuth	±90 °, ±65°(Continuous)
Elevation	0°~90°(Continuous)
Polarization	180°(Continuous)
Drive Mode	Manual or Motorized
Motor Drive System	
Azimuth Travel Rate	0.1 °/S (0.02°/S)
Elevation Travel Rate	0.1°/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

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