

## GS11.3M EARTH STATION ANTENNA

### Key Features

- \* Meets or Exceeds CCIR 580 and INTELSAT Requirements
- \* High G/T, Excellent Pattern
- \* Characteristics
- \* Mount Assembly
- \* C-band Antenna Operating in
- \* 800MHz Bandwidth Option
- \* 2-port, 3-port or 4-port
- \* Linear/Circular Feed
- \* Field Changeable Feed System,
- \* Switchable Circular to Linear
- \* C-band
- \* Antenna Az 0-360deg 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
- \* Anti-icing and Deicing

### ELECTRICAL SPECIFICATION

	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
Operating Frequency, GHz	3.625~4.2	5.85~6.425	10.95~12.75	14.0~14.5
Gain, Mid-band, dBi	51.90	55.2	62.5	63.6
Polarization	Linear/ Circular		Linear	
XPD (on Axis), dB	35	35	35	35
XPD across 1dB Beam Width, dB	33	33	33	33
Axial Ratio	1.06	1.06	1.06	1.06



VSWR	1.25	1.25	1.25	1.25
Antenna Noise Temperature	2/4 port feed		2/4 port feed	
10° Elevation	34°K		57°K	
20° Elevation	26°K		47°K	
40° Elevation	23°K		43°K	
-3dB Beam Width, Mid-band	0.44°	0.29°	0.14°	0.12°
Tx. Power Capability, KW		5		2
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss, dB	0.25	0.2	0.25	0.25
Isolation, Tx to Rx, dB	85		85	
Radiation Pattern:First Sidelobe	≤14,Meet ITU-RS.580-5 and other requirements			

### MECHANICAL SPECIFICATION

Antenna Diameter	11.3m
Antenna Type	Cassegrain
Antenna Pedestal Options	Kingpost Pedestal/Rotation Pedestal
Antenna Pointing Range	
Azimuth	0°~170°/ 0°~360°(Continuous)
Elevation	0°~90°(Continuous)
Polarization	±45°
Finishes	
Reflector Surface	Aluminum panels with high-diffusing white paint
Pedestal & Back Structure	Hot-dip Galvanized
Surface Accuracy (RMS)	≤0.5mm

### ENVIRONMENTAL SPECIFICATION

Operational Wind	72km/h Gusting to 97km/h
Survival Wind	216km/h
Temperature	-40°C ~ + 60°C
Relative Humidity	100%
Rain	100mm/h
Snow	30mm
Ice	No damage with ice as thick as 25mm
Sand&Dust	As in desert regions
Salt&Fog	As in coastal regions
Solar Radiation	1135Kcal/ h/ m <sup>2</sup>
Seismic (Survival)	0.3g (H), 0.15g (V)

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