

## GS13M EARTH STATION ANTENNA

### Key Features

- \* Meets CCIR 580 and INTELSAT Requirements
- \* CP/LP switchable feed
- \* High RF performance
- \* Galvanized steel hardware
- \* Step-track control system
- \* Different frequency ranges from many feed configurations
- \* Antenna reflector be pre-assembly in works, special designed taper-pin easy installation and ensure on site assembly accuracy

### Antenna Accessories

- \* Motorization Kits
- \* Limit Switches
- \* ODU Support Kits
- \* Factory Feed System Testing and Documentation
- \* Ocean Transport Packing
- \* Foundation Kit
- \* Lightening Rod Kit
- \* Grounding Kit Cable-Mounting Kit
- \* Anti-icing and Deicing

### Options

- \* L,S,X bands and multi-bands
- \* 800MHz band with is available
- \* Feed blower or deicing with automatic controls
- \* Two or four Tx/Rx port in linear or circular polarized feeds

### ELECTRICAL SPECIFICATION

	C-Band		Ku-Band	
	Receive	Transmit	Receive	Transmit
Operating Frequency, GHz	3.4~4.2	5.85~6.65	10.95~12.75	13.75~14.5
Gain, Mid-Band. dBi	56.37+20lg [f/6(GHz)] 52.98+20lg [f/4(GHz)]		62.25+20lg [f/11.8(GHz)] 63.38+20lg [f/14(GHz)]	
Polarization	Linear/Circular			
XPD(on Axis),dB	35	35	35	35
XPD across 1dB Beam Width,dB	30	30	30	30
Axial Ratio(dB) for Circular Pol	0.5	0.5	0.5	0.5
VSWR	Linear Pol	1.3	1.3	1.3
	Circular Pol	1.25	1.25	1.25
Antenna Noise Temperature	2 port feed		2 port feed	
5° Elevation	54°K		65°K	



10° Elevation	46°K		58°K	
20° Elevation	36°K		50°K	
40° Elevation	30°K		42°K	
-3dB Beam Width, Mid-band	0.368°	0.25°	0.127°	0.11°
Tx Power, KW		5		2
Feed Interface	CPR-229F	CPR-137F	WR-75	WR-75
Feed Insertion Loss,dB	0.25	0.2	0.25	0.25
Isolation, Tx to Rx(Tx Freq)	85dB			
Radiation Pattern:First Sidelobe	≤-14, Meet ITU-RS.580-5 specifications			

### MECHANICAL SPECIFICATION

Antenna Diameter	13M
Antenna Type	Cassegrain
Antenna Pedestal Options	Kingpost Pedestal/Rotation Pedestal
Azimuth Travel Range	±85°/0°~360°
Travel Rate for Az/EI	0.001°/s~0.3°/s
Elevation Travel	0°~90°(continuous)
Backup Structure	Steel
Pedestal Structure	Steel
Finishes	
Reflector Surface	High-diffusing white paint for aluminum panels
Pedestal & Back Structure	Hot-dip Galvanized steel
Surface Accuracy (RMS)	0.5mm(R.M.S)

### ENVIRONMENTAL SPECIFICATION

Operational Wind	72km/h Gusting to 100km/h
Survival Wind	200km/h
Temperature	-40°C ~ + 60°C
Rain(Operational and Survival)	10cm/h
Relative Humidity	Up to 0% to 100% without condensation
Ice(Survival)	2.5cm radial
Shock and Vibration	As encountered during shipment by commercial air,sea or truck
Corrosive Atmosphere	As encountered in coastal regions and/or heavily industrialized areas
Seismic (Survival)	0.3G's horizontal
	0.15G's vertical

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