

GS20M 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
- * Full motion antenna
- * Feed blower or deicing with automatic controls
- * Two or four Tx/Rx port in linear or circular polarized feeds

20M ANTENNA WITH 4 PORT DUAL LINER/CIRCULAR POL.FEED

	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
Antenna Gain, dBi: Tx(at Tx port to feed) Rx((at Rx port of feed)	60.20+20lg [f/6(GHz)] 56.75+20lg [f/4(GHz)]		66+20lg [f/11.8(GHz)] 67.17+20lg [f/14(GHz)]	
Cross Polarization Isolation for LP	On Axis: 35dB, Within 1dB beamwidth:30dB			
Axial Ratio (dB) for CP	0.5dB per port			
VSWR	CP:1.25:1		LP:1.3:1	
Antenna Noise Temperature: 5° Elevation	2 port feed 54°K		2 port feed 68°K	



10° Elevation	46°K		60°K	
20° Elevation	36°K		52°K	
40° Elevation	30°K		44°K	
-3dB Beam Width, Mid-band	0.24°	0.16°	0.083°	0.073°
Total Power Handling Capability	5kw (cw) per Tx port			
Feed Interface	CPR-229G	CPR-137G	WR-75	WR-75
Feed Insertion Loss	0.4	0.4	0.5	0.5
Port to Port Isolation:				
Tx to Rx(Tx Freq)	85dB			
Rx to Rx	CP: 20dB LP: 30dB			
Tx to Tx(Same Band)	CP: 20dB LP: 30dB			
Radiation Pattern:First Sidelobe	≤-14, Meet ITU-RS.580-5 specifications			

MECHANICAL SPECIFICATION

Antenna Pointing Range	
Azimuth	0°~170°/ 0°~360°(Continuous)
Elevation	0°~90°(Continuous)
Finishes	
Reflector Surface	Aluminum panels with high-diffusing white paint
Pedestal & Back Structure	Galvanized steel
Surface Accuracy (RMS)	0.7mm (R.M.S)

ENVIRONMENTAL SPECIFICATION

Operational Wind	72km/h Gusting to 100km/h
Survival Wind	200km/h
Rain	Up to 100mm/h operational and survival
Relative Humidity	Up to 100% operational and survival
Temperature	-40°C ~ + 60°C
Radial Ice(Survival)	25mm on all surface
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 (H), 0.15g (V)

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