

## GS9.0M EARTH STATION ANTENNA

### Key Features

- \* Meet or Exceeds CCIR-580 and INTELSAT requirements
- \* High G/T, Excellent Pattern Characteristics
- \* 2- port,3-port,4-port Liner/Circular Feed
- \* Field Changeable Feed System, Switchable Circular to Liner C-band
- \* Antenna Az 0-360 degree continuous Pointing Range

### Antenna Accessories

- \* Motorization Kits
- \* Limited Switches
- \* Step track
- \* ODU Support Kits
- \* Factory Feed System Testing and Documentation
- \* Export Packing
- \* Foundation Kit
- \* Lightening Rod kit
- \* Grounding Kit
- \* Cable-Mouthing Kit
- \* Major Subsystem Spar Part kits
- \* De-icing or Anti-icing

### 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	50.35	53.4	59.2	60.4
VSWR	1.25: 1	1.25: 1	1.25: 1	1.25: 1
Antenna Noise Temperature	2/4 port feed		2/4 port feed	
10° Elevation	35°K/40°K		60°K/66°K	
20° Elevation	27°K/34°K		50°K/56°K	
40° Elevation	24°K/30°K		44°K/50°K	
-3dB Beam Width, Mid-band	0.74°	0.49°	0.24°	0.20°
-15dB Beam Width, Mid-band	1.48°	0.98°	0.49°	0.40°
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
Port-port Isolation (Tx-Rx)	35dB	85dB	35dB	85dB
Rx-Rx、Tx-Tx Linear	30dB	30dB	30dB	30dB

Tx-Tx、 Rx-Rx Circular	21dB	21dB		
Cross Polarization Isolation(on axis)	35dB	35dB	35dB	35dB
Axial ratio,dB(Ratio)	1.8/0.5dB	1.8/0.5dB		
Radiation pattern: First Sidelobe	Meet CCIR,580-5			

### MECHANICAL SPECIFICATION

Antenna Diameter	9.0m
Antenna Type	Cassegrain/Ring Focus
Antenna Pedestal Options	Kingpost Pedestal/Rotation Pedestal
Azimuth Travel	±90 °/0°~360°(Continuous)
Elevation Travel	0 ° to 90 °
Polarization Travel Rate	1 °/s
Surface Accuracy	≤0.5mm(R.M.S)
Finishes Reflector Surface Pedestal & Back Structure	Aluminum panels with high-diffusing white paint Hot-dip Galvanized

### ENVIRONMENTAL SPECIFICATION

Operational Winds	45mi/h(72km/h) gusts to 60mi/h(97km/h)
Survival Winds	125mi/h(200km/h)
Ambient Temperature	-45°C to + 60°C
Relative Humidity	10% to 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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