

## **GS9.0m Rx antenna**

### **Key Features**

- \* Meets CCIR 580-5 and INTELSAT Requirements
- \* Dual Reflector
- \* High G/T, Excellent Pattern Characteristics
- \* Hot-dipped Galvanized Steel Ground Mount Assembly
- \* Stretch Formed Aluminum Reflector with High Precision.
- \* C-band/ ku-band/ ka-band/S-band/L-band frequency
- \* 2 port or 4 port available as option
- \* High Erosion Resistance
- \* Foundation Hardware Kit included
- \* Ocean or Air Transport Packing
- \* Excellent in Stability
- \* Survives 125 mph Winds

### **Antenna accessories:**

- \* Motorized kits
- \* Single/Dual Polarization as option
- \* Linear Polarization or Circular Polarization to C band
- \* Factory Feed System Testing and Documentation
- \* Grounding kit
- \* Lightening Rod Kit
- \* Cable-Mounting Kit
- \* Major Subsystem Spare Part Kits
- \* Anti-icing and Deicing

## **GLOBAL STAR SATELLITE ANTENNA CO;LTD**

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### ELECTRICAL SPECIFICATION

ANTENNA	C-BAND	Ku-BAND	
Frequency	3.4-4.2GHz	10.95-12.75 Ghz	
VSWR	1.25:1	1.3:1	
Insertion Loss	0.25dB	0.3dB	
Isolation	35dB		
Feed Interface	WR229G	WR75	
3dB Beamwidth	0.568°	0.191°	
Sidelobe Level	D/λ ≥ 150	29-25lgθ 32-25lgθ -10	1° ≤ θ ≤ 20° 20° < θ ≤ 48° θ > 48°
	100 < D/λ < 150	29-25lgθ 8 32-25lgθ -10	1° ≤ θ ≤ 7° 7° < θ ≤ 9.2° 9.2° < θ ≤ 48° θ > 48°
First Sidelobe	≤ -14dB		
Gain	49.22dB (F=3.8 GHz)	58.71 dB (F=11.8 GHz)	
Noise Temperature	42°K@10°	65°K@10°	

### MECHANICAL SPECIFICATION

Antenna Optics	Feed-backward antenna
Elevation Adjustment	0° to 90° Continuous Fine Adjustment
Azimuth Adjustment	±85° Continuous Adjustment (Into three sections)

### ENVIRONMENTAL SPECIFICATION

Wind Loading	45mph	72kmph	operational (Maintain Precision)
	60mph	97kmph	operational (Decrease Precision)
	125mph	200kmph	Survival (Fixed Heavenward)
Temperature	-45° ~ 50° C		
Relative Humidity	0% ~ 100%		
Seismic (survival)	0.3G's horizontal 0.15 G's vertical		

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