

## **GS3.7m Rx antenna**

### **Key Features**

- \* Meets CCIR 580-5 and INTELSAT Requirements
- \* 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
- \* 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
- \* Lightning Rod Kit
- \* Cable-Mounting Kit
- \* Major Subsystem Spare Part Kits
- \* Anti-icing and Deicing

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

No 9 th floor, Time center building, Zhong shan Road, Wuxi, Jiangsu,PR. China  
Tel :+86-510-85040609 Fax:+86-510-85034110 Email:sales@gsantenna.com

### ELECTRICAL SPECIFICATION

ANTENNA	C-BAND	Ku-BAND	
Frequency	3.4-4.2GHz	10.95-12.75 GHz	
VSWR	1.3:1		
Insertion Loss	0.25dB	0.3dB	
Isolation	35dB		
Feed Interface	WR229	WR75	
3dB Beamwidth	1.44°	0.484°	
Sidelobe Level	D/λ ≥ 150	29-25 lgθ 32-25lgθ -10	1° ≤ θ ≤ 20° 20° < θ ≤ 48° θ > 48°
	100 < D/λ < 150	29-25 lgθ 8 32-25lgθ -10	1° ≤ θ ≤ 7° 7° < θ ≤ 9.2° 9.2° < θ ≤ 48° θ > 48°
	D/λ ≤ 100	52-10lg(D/λ) - θ 10-101g(D/λ)	100λ/D ≤ θ ≤ 48° θ > 48°
	First Sidelobe	≤ -14dB	
	Gain	41.15dB (F=3.8 GHz)	50.61dB (F=11.8 GHz)
	Noise Temperature	35°K@10°	49°K@10°

### MECHANICAL SPECIFICATION

Antenna Optics	Feed-forward antenna	
Elevation Adjustment	0° to 90° Continuous Fine Adjustment	
Azimuth Adjustment	manual	0° to 360° Continuous Fine Adjustment
	motorization	±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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