

GS3.0m 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

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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/F | WR75/F |
| 3dB Beamwidth | 1.77° | 0.597° |
| Sidelobe Level | $D/\lambda \leq 100$ $52-10\lg(D/\lambda)-25\lg\theta$ $10-10\lg(D/\lambda)$ $100 < D/\lambda < 150$ $29-25\lg\theta$ 8 $32-25\lg\theta$ -10 | $100/\lambda D \leq \theta \leq 48^\circ$ $\theta > 48^\circ$ $1^\circ \leq \theta \leq 7^\circ$ $7^\circ < \theta \leq 9.2^\circ$ $9.2^\circ < \theta \leq 48^\circ$ $\theta > 48^\circ$ |
| First Sidelobe | $\leq -14\text{dB}$ | |
| Gain | 39.33dB (F=3.8 GHz) | 48.79 dB (F=11.8 GHz) |
| Noise Temperature | 34°K@10° | 48°K@10° |

MECHANICAL SPECIFICATION

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

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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