

GS6.2M EARTH STATION ANTENNA

Key Features

- * Meets or Exceeds CCIR 580 and INTELSAT Requirements
- * Ring Focus
- * High G/T, Excellent Pattern Characteristics
- * Hot-dipped Galvanized Steel Ground Mount Assembly
- * C-band Antenna Operating in 800MHz Bandwidth Option
- * 2-port, 3-port or 4-port Linear/Circular Feed
- * Field Changeable Feed System, Switchable Circular to Linear C-band
- * Antenna Az 0°~360°(Continuous) Pointing Range

Antenna Accessories

- * Motorization Kits
- * 50 Satellite Positions Preset
- * Limit Switches
- * Steptrack
- * ODU Support Kits
- * Factory Feed System Testing and Documentation
- * Ocean Transport Packing
- * Foundation Kit
- * Lightening Rod Kit
- * Grounding Kit
- * Cable-Mounting Kit
- * Major Subsystem Spare Part Kits
- * Deicing or Anti-icing

ELECTRICAL SPECIFICATION

| | C-Band | | Ku-Band | |
|----------------------------------|------------------|------------|-------------|------------|
| | Receive | Transmit | Receive | Transmit |
| Operating Frequency, GHz | 3.4~4.2 | 5.85~6.725 | 10.95~12.75 | 13.75~14.5 |
| Gain, Mid-band, dBi | 46.5 | 50.3 | 56 | 57.4 |
| Polarization | Linear/ Circular | | Linear | |
| XPD (on Axis), dB | 35 | 35 | 35 | 35 |
| XPD across 1dB Beam Width, dB | 33 | 33 | 33 | 33 |
| Axial Ratio (Circular-Polarized) | | | | |
| 2-Port Feed | 1.30 | 1.09 | | |
| 4-Port Feed | 1.06 | 1.06 | | |
| VSWR | 1.25 | 1.25 | 1.25 | 1.25 |
| Antenna Noise Temperature | 2 port feed | | 2 port feed | |
| 10° Elevation | 35°K | | 50°K | |
| 30° Elevation | 25°K | | 39°K | |



| 50° Elevation | 22°K | | 36°K | |
|---------------------------|--------------------------|----------|--------------------------|-------|
| -3dB Beam Width, Mid-band | 0.83° | 0.54° | 0.27° | 0.23° |
| Typical G/T (EI> 10°) | 28.4dB/°K (30° LNA) | | 35.2dB/°K (70° LNA) | |
| Tx. Power Capability, KW | | 5 | | 2 |
| Feed Interface | CPR-229G | CPR-137G | WR-75 | WR-75 |
| Feed Insertion Loss | 0.25 | 0.2 | 0.25 | 0.25 |
| Isolation, Tx to Rx, dB | | 90 | | 85 |
| Rx/Rx,Tx/Tx Linear,dB | | 30 | | 30 |
| Rx/Rx,Tx/Tx Circular,dB | | 22 | | 22 |
| Sidelobes | CCIR 580-5 | | | |

MECHANICAL SPECIFICATION

| | |
|------------------------|-------------------------|
| Antenna Diameter | 6.2m |
| Antenna Type | Ring Focus |
| Mount Type | EI. over Az. |
| Surface Accuracy (RMS) | ≤ 0.5mm |
| Antenna Pointing Range | |
| Azimuth | ±90 °, ±85°(Continuous) |
| Elevation | 0°~90°(Continuous) |
| Polarization | 180°(Continuous) |
| Drive Mode | Manual or Motorized |
| Motor Drive System | |
| Azimuth Travel Rate | 0.1 °/S (0.02°/S) |
| Elevation Travel Rate | 0.1°/S (0.02 °/S) |
| Polarization | 1°/S |

ENVIRONMENTAL SPECIFICATION

| | |
|--------------------|---------------------------------|
| Operational Wind | 72km/h Gusting to 97km/h |
| Survival Wind | 216km/h |
| Temperature | -40°C ~ + 60°C |
| Relative Humidity | 100% |
| Solar Radiation | 1135Kcal/ h/ m ² |
| Seismic (Survival) | 0.3g (H), 0.15g (V) |
| Ice Loading | 13mm Operational; 25mm Survival |

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