



- Conform to CCIR 580 and INTELSAT Requirements
- High G/T, Excellent Sidelobe Performance
- Hot-dipped Galvanized Mount
- Switch for C Band Linear and Circular Polarization Feed
- Ring-focus Antenna, C/Ku Band



7.3 Meter KU-Band Earth Station Antenna

Model: GA73MKUTXRX

ELECTRICAL SPECIFICATION

| Item | Specification | |
|--|---------------------|---------------------|
| | Receive | Transmit |
| | KU-Band | |
| Operation Frequency, GHz | 10.7-12.75 | 13.75-14.5 |
| Gain, Mid-band, dBi | 57.5 | 58.9 |
| Polarization | Linear | |
| XPD (on Axis), dB | 35 | 35 |
| XPD (across 1dB Beam width),dB | 33 | 33 |
| Axial Ratio(Circular-Polarized), 2-port Feed | | |
| VSWR | 1.25 | 1.25 |
| Antenna Noise Temperature | | |
| 10°Elevation | 66°K | |
| 20°Elevation | 52°K | |
| 40°Elevation | 47°K | |
| -3dB Beam width, Mid-band | 0.23° | 0.22° |
| Typical G/T(EL>10°) | 36.1dB/K (70°LNA) | |
| TX. Power Capability, KW | | 2 |
| Feed Interface | WR-75 | WR-75 |
| Feed Insertion Loss | 0.25 | 0.2 |
| Isolation, TX to Rx,dB | | 85 |
| First Side lobe | -14 | -14 |
| 90% Peaks under Following Envelop | 29-25logθ(1°≤θ<20°) | 29-25logθ(1°≤θ<20°) |

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MECHANICAL SPECIFICATION

| Item | Specification |
|----------------------------------|--|
| Antenna Diameter | 7.3 m |
| Antenna Type | Cassegrain |
| Mount Type | El. over AZ. |
| Surface Accuracy (RMS) | $\leq 0.5\text{mm}$ |
| Antenna Pointing Range and speed | |
| Azimuth | Standard type: $+75^\circ, +60^\circ$ (Continuous), $0.05^\circ/\text{s}$ Custom type: $0^\circ \sim 360^\circ$ (Continuous), $0.05^\circ/\text{s}$ |
| Elevation | $3^\circ \sim 90^\circ$ (Continuous), $0.05^\circ/\text{s}$ |
| Polarization | 360° (Continuous), $0.1^\circ/\text{s}$ |
| Drive Mode | Manual or Motorized |

ENVIRONMENTAL SPECIFICATION

| Item | Specification |
|--------------------|--|
| Operational Wind | 72 km/h Gusting to 97 km/h |
| Survival Wind | 216 km/h |
| Temperature | $-40^\circ\text{C} \sim +60^\circ\text{C}$ |
| Relative Humidity | 100% |
| Seismic (Survival) | 0.3g(H), 0.15g(V) |
| Ice Loading | 13mm Operational; 25mm Survival |

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Mechanical Diagram (Unit: inch (mm))

