1.2 m RxTx Class II Antenna System
TYPE 123

The Skyware Global Type 123 1.2 m Class II RxTx Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is thermoset-molded for strength and surface accuracy. Molded into the rear of the reflector is a network of support ribs which strengthens the antenna and helps to sustain the necessary parabolic shape. The reflector optics feature a long focal length for excellent cross-pol performance.

The heavy gauge steel Az/El mount secures the antenna to any 73-76 mm (2.88”-3.00”) mast and prevents slippage in high winds. A special powder paint process offers excellent protection from weather-related corrosion.

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- Long focal length optics for low cross-pol performance.
- Fine azimuth and elevation adjustments.
- Available with Ku-band co-pol or cross-pol feeds.
- Galvanized 19 mm (.75”) O.D. side feed support legs and 51 mm (2”) O.D. lower feed support.
- Plated hardware for maximum corrosion resistance.
- Class II system designed for typical 2 W and 4 W Ku-band Block Up-Converters (BUCs).*

* 3.6 kg or 8 lb max. weight for RF electronics (BUC and LNBF).
### Type 123 1.2 m RxTx Class II Antenna System

#### Type Approval Information
- **Antenna Model**: 62 - 1236201
- **Intelsat Standard**: Standard G (Intelsat 601)
- **Approval Code**: IA077A00
- **Eutelsat Standard**: VSAT
- **Approval Code**: EA-V051
*(See Our Website for a Complete List of Type Approvals)*

#### Mechanical Performance
- **Reflector Material**: Glass Fiber Reinforced Polyester
- **Antenna Optics**: One-Piece Offset Feed Prime Focus
- **Mount Type**: Elevation over Azimuth
- **Elevation Adjustment Range**: 7° – 84° Continuous Fine Adjustment
- **Azimuth Adjustment Range**: 360° Continuous ±20° Fine Adjustment
- **Mast Pipe Interface**: 73 – 76 mm (2.88 in – 3.00 in) Diameter
- **Wind Loading**: Operational 80 km/h (50 mph)
  Survival 200 km/h (125 mph)
- **Temperature**: -50°C to 80°C
- **Humidity**: 0 to 100% (Condensing)
- **Atmosphere**: Standard Hardware Meets 500 Hour Salt Spray Test Requirements (ASTM B-117)
- **Solar Radiation**: 360 BTU/h/ft²
- **Shock and Vibration**: As Encountered During Shipping and Handling

#### RF Performance
- **Effective Aperture**: 1.2 m (48 in)
- **Operating Frequency**
  - **Tx**: 13.75 - 14.50 GHz
  - **Rx**: 10.70 - 12.75 GHz
- **Polarization**: Linear, Orthogonal
- **Gain (±2 dBi)**
  - **Tx**: 43.3 dBi @ 14.3 GHz
  - **Rx**: 41.8 dBi @ 12.0 GHz
- **3 dB Beamwidth**
  - **Tx**: 1.2° @ 14.3 GHz
  - **Rx**: 1.5° @ 12.0 GHz
- **Sidelobe Envelope (Tx, Co-Pol dBm)**
  - 1.5° < θ < 20°: 29 - 25 Log (+)
  - 20° < θ < 26.3°: 3.5
  - 26.3° < θ < 48°: 32 - 25 Log (+)
  - 48° < θ < 180°: -10
- **Antenna Cross-Polarization**: 30 dB in 1 dB Contour
- **Antenna Noise Temperature**
  - 10° E1: 45° K
  - 20° E1: 31° K
  - 30° E1: 24° K
- **VSWR**
  - **Tx**: 1.3:1
  - **Rx**: 1.5:1
- **Isolation (Port to Port)**
  - **Tx**: 80 dB
  - **Rx**: 35 dB
- **Feed Interface**
  - **Tx**: WK75 Flat Flange
  - **Rx**: WK75 Flat Flange
*(All specifications typical)*