

Type 123: 1.2m Rx/Tx Extended Ku-Band Class II Antenna System



- ISO 9001:2008 Certificate of Registration
- 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 2W and 4W Ku-band Block Up-Converters (BUCs).*

*3.6 kg or 8 lb max. weight for RF electronics (BUC and LNB)



The **Skyware Global 1.2m Rx/Tx Extended Ku-Band Class II 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.



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• PRODUCT SPECIFICATIONS

Type Approval Information

Antenna Model62-1236201
Intelsat Standard.....Standard G (IESS 601)
Approval Code.....IA077SA00
(See Our Website for a Complete List of Type Approvals)

RF Performance

Effective Aperture 1.2m (48 in)
Operating Frequency
TX.....12.75-14.50GHz
RX.....10.70-11.70GHz
Polarization.....Linear, Orthogonal
Gain (± 0.2 dB)
TX.....43.3 dBi @ 14.3GHz
RX.....41.8 dBi @ 12.0GHz
3 dB Beamwidth
TX.....1.2° @ 14.3GHz
RX.....1.5° @ 12.0GHz
Sidelobe Envelope (Tx, Co-Pol dBi)
1.5° < θ < 20°.....29-25 log θ dBi
20° < θ < 26.3°.....-3.5dBi
26.3° < θ < 48°.....32-25 log θ dBi
48° < θ < 180°.....-10
Antenna Cross-Polarization.....30 db in 1 dB
Contour
Antenna Noise Temperature
10° EL.....45K
20° EL.....31K
30° EL.....24K
VSWR
TX.....1.3:1
RX.....1.5:1
Isolation (Port to Port)
TX.....80db
RX.....35db
Feed Interface
TX.....WR75 Flat Flange
RX.....WR75 Flat Flange

(All specifications typical)

1.2 m Rx/Tx Extended Ku-Band Class II Antenna

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
 $\pm 20^\circ$ Fine Adjustment
Mast Pipe Interface.....73-76 mm
(2.88 in-3.00 in) Diameter

Environmental Performance

Wind Loading
Operational.....50 mph (80 km/h)
Functional Survival.....80 mph (128 km/h)
Ultimate Survival.....125 mph (200 km/h)
Operational Temperature.....-40°C to +60°C
Survival Temperature.....-50°C to +80°C
Humidity.....0 to 100% (Condensing)
Atmosphere.....Standard Hardware 500 Hrs
SST Requirements (ASTM B-117)
Solar Radiation.....360 BTU/h/ft²
Shock and Vibration.....As Encountered during
Shipping and handling



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