

## PRODUCT SPECIFICATIONS

Detail Photos  
(on right from top to bottom)  
Pre-assembled Az/EI Mount  
RF tested Ku-band feed  
assembly



## 1.2 m Rx/Tx Class II Antenna System

### TYPE 123

Type approved for use  
on Intelsat and Eutelsat  
satellite systems



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/EI 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. 2011/65/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 LNB)



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### Type Approval Information

Antenna Model	.62 - 1236201
Intelsat Standard	Standard G (IESS 601)
Approval Code	IA077A00
Eutelsat Standard	.VSAT
Approval Code	EA-V051

(See Our Website for a Complete List of Type Approvals)

### RF Performance

Effective Aperature	.1.2m (48in)
Operating Frequency	
TX	.13.75 - 14.50 GHz
RX	.10.70 - 12.75 GHz
Polarization	.Linear, Orthogonal
Gain ( $\pm 0.2$ dB)	
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 dBi)	
1.5° < $\theta$ < 20°	.29-25 log $\theta$ dBi
20° < $\theta$ < 26.3°	-.3.5 dBi
26.3° < $\theta$ < 48°	.32-25 log $\theta$ dBi
48° < $\theta$ < 180°	-.10 dBi
Antenna Cross-Polarization	.>30 dB in 1 dB Contour
Antenna Noise Temperature	
10° EL	.45°K
20° EL	.31°K
30° EL	.24°K
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)

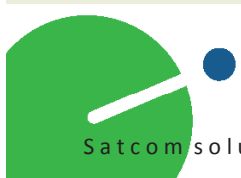
## 1.2m Rx/Tx Class II Antenna System

### 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

### Environmental Performance

Wind Loading	
Operational	.50 mph (80 km/h)
Survival	.125 mph (200 km/h)
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/ ft <sup>2</sup>
Shock and Vibration	.As Encountered during Shipping and handling



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