

## PRODUCT SPECIFICATIONS

Detail Photos

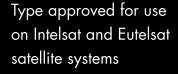
(on right from top to bottom)

Pre-assembled Az/El Mount

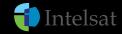
Fine-elevation adjustment
with stamped degree scale

RF tested Ku-band feed

assembly











# 96 cm RxTx Class II Antenna System

**TYPE 960** 

The Skyware Global Type 960 96 cm 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 sustains its critical parabolic shape necessary for transmit performance. 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).
- One-piece precision offset thermosetmolded reflector.
- Long focal length optics for low cross-pol performance.
- Galvanized 19 mm (.75") O.D. side feed support legs and 51 mm (2") O.D. lower feed support.
- Corrosion resistant plated hardware.
- Available with Ku-Band co-pol or cross-pol feeds.
- Class II system designed for typical 2 W and 4 W Ku-Band Block Up-Converters (BUCs)\*

\*5.4 kg or 12 lb max. weight for RF electronics (BUC and LNB)

### **Type 960** 96 cm RxTx Class II Antenna System

#### **Type Approval Information**

Antenna Model	 62 - 9605601
Intelsat Standard	 Standard G (IESS 601)
Approval Code	 IA078A00
Eutelsat Standard	 VSAT
Approval Code	 EA-V050

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

#### **RF Performance**

Effective Aperture		96 cm (38 in)
Operating Frequency	Tx	13.75 - 14.50 GHz 10.70 - 12.75 GHz
Polarization		Linear, Orthogonal
Gain (±.2 dBi)	Tx	41.2 dBi @ 14.3 GHz 39.7 dBi @ 12.0 GHz
3 dB Beamwidth	.Tx	1.5° @ 14.3 GHz 1.8° @ 12.0 GHz
Sidelobe Envelope (Tx, Co	$1.8^{\circ} < \theta < 20^{\circ} \qquad \dots$	-3.5
Antenna Cross-Polarization		30 dB in 1 dB Contour
Antenna Noise Temperature	10° El 20° El 30° El	53° K 39° K 32° K
VSWR	Tx	1.3:1 1.5:1
Isolation (Port to Port) .	Tx	80 dB 35 dB
Feed Interface	Tx	WR75 Flat Flange WR75 Flat Flange

#### **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) 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





Skyware Global 1315 Industrial Park Drive Smithfield, NC 27577 USA

(All specifications typical)

Telephone: +1-919-989-2280

Sales: sales@skywareglobal.com
Internet: www.skywareglobal.com

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