

96 cm Rx/Tx Class II Antenna System



PRODUCT SPECIFICATIONS

Detail Photos
(on right from top to bottom)
Pre-assembled Precision
Az/EI Mount with Fine-
elevation adjustment and
stamped degree scale
RF tested KU-band Feed
Assembly



96 cm Rx/Tx Class II Antenna System TYPE 960

Type approved for use
on Intelsat and Eutelsat
satellite systems



The Skyware Global Type 960 96 cm Class II Rx/Tx 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/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. 2002/95/EC (RoHS).
- One-piece precision offset thermoset-molded 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)



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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 Complete List of Type Approvals)

RF Performance

Effective Aperture96 cm equivalent (38 in)

Operating Frequency

TX.....	13.75 -14.50 GHz
RX.....	10.70 -12.75 GHz

PolarizationLinear, Orthogonal

Gain (± 0.2 dB)

TX.....	41.2 dBi @ 14.3 GHz
RX.....	39.7 dBi @ 12.0 GHz

3 dB Beamwidth

TX.....	1.5° @ 14.3 GHz
RX.....	1.8° @ 12.0 GHz

Sidelobe Envelope (Tx, Co-Pol dBi)

$1.8^\circ < \theta < 20^\circ$	29-25 log θ
$20^\circ < \theta < 26.3^\circ$	-3.5
$26.3^\circ < \theta < 48^\circ$	32-25 log θ
$48^\circ < \theta < 180^\circ$	-10

Antenna Cross-Polarization...>30db in 1dB Contour

Antenna Noise Temperature

10° EL.....	53° K
20° EL.....	39° K
30° EL.....	32° 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)

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Mechanical Performance

Reflector Material.....	Glass Fiber Reinforced Polyester
Antenna Optics.....	One-Peice 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 (2.38 in - 3.00 in) Diameter

Enviromental 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/ ft²

Shock and Vibration..... As Encountered during
Shipping and handling



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