ascSignal™

**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 ASC Signal 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 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)*

Type approved for use on Intelsat and Eutelsat satellite systems

eutelsat

Intelsat

RoHS

**SPECIFICATIONS**

# 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 |
| | Rx | 10.70 - 12.75 GHz |
| Polarization | | Linear, Orthogonal |
| Gain (±.2 dBi) | 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° <Θ< 20° | 29 - 25 Log Θ |
| | 20° <Θ< 26.3° | -3.5 |
| | 26.3° <Θ< 48° | 32 - 25 Log Θ |
| | 48° <Θ< 180° | -10 |
| Antenna Cross-Polarization | | 30 dB in 1 dB 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 | 80 dB |
| | Rx | 35 dB |
| Feed Interface | Tx | WR75 Flat Flange |
| | Rx | 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) |
| | 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/ft$^2$ |
| Shock and Vibration | | As Encountered During Shipping and Handling |

*(All specifications typical)*

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Connecting The World

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