

PRODUCT SPECIFICATIONS

Detail Photos

(on right from top to bottom) Heavy-duty galvanized Az/El Mount

Fine azimuth and elevation adjustments

RF tested Ku-band linear polarized feed assembly



2.4 m Ku-band RxTx Class III Antenna System

TYPE 243

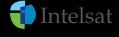
The Skyware Global Type 243 2.4 m Class III RxTx Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is thermoset-molded for strength and surface accuracy. Molded into the rear of the reflector is a network of support ribs which not only strengthens the antenna, but also helps to maintain its critical parabolic shape necessary for transmit performance.

The Az/El mount is constructed from heavy-gauge steel to provide a rigid support to the reflector and feed support arm. Heavy-duty lockdown bolts secure the mount to any 168 mm (6.63") O.D. mast and prevent slippage in high winds.

Hot-dip galvanizing is standard on this model for maximum environmental protection.

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- Two-piece precision offset thermosetmolded reflector.
- Heavy-duty galvanized Az/El mount.
- Fine Azimuth and elevation adjustments.
- Galvanized support arm and alignment struts.
- Factory pre-assembled mount.
- Plated hardware for maximum corrosion resistance.
- Includes Ku-band linear crosspolarized RxTx feed assembly.
- Heavy-duty Class III mount for 11 kg (25 lb) RF electronics (LNB & BUC).

Type approved for use on Intelsat satellite system





Type 243 2.4 m Ku-band RxTx Class III Antenna System

Type Approval Information

Antenna Model	 62 - 2435611
Intelsat Standard	 Standard G & K-3 (IESS 601)
Approval Code	 IA057B00

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

RF Performance

Effective Aperture		2.4 m (96 in)
Operating Frequency	Tx	13.75 - 14.50 GHz 10.70 - 12.75 GHz
Polarization		Linear, Orthogonal
Gain (±.2 dBi)	Tx	48.9 dBi @ 14.3 GHz 47.4 dBi @ 12.0 GHz
3 dB Beamwidth	.Tx	0.59° @ 14.3 GHz 0.71° @ 12.0 GHz
Sidelobe Envelope (Tx, Co	Pol dBi) $1^{\circ} < \theta < 20^{\circ} \\ 20^{\circ} < \theta < 26.3^{\circ} \\ 26.3^{\circ} < \theta < 48^{\circ} \\ 48^{\circ} < \theta < 180^{\circ} $	-3.5
Antenna Cross-Polarization		30 dB on Axis 26 dB in .5 dB Contour
Antenna Noise		
Temperature	10° El 20° El 30° El	55° K 46° K 45° 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

(All specifications typical)

Mechanical Performance

Reflector Material		Glass Fiber Reinforced Polyester
Antenna Optics		Two-Piece Offset Feed Prime Focus
Mount Type		Elevation over Azimuth
Elevation Adjustment Range		10° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range		360° Continuous $\pm 12^\circ$ Fine Adjustment
Feed Support		Rectangular Section with Alignment Legs
Mast Pipe Interface		168 mm (6.63 in) Diameter
Wind Loading	Operational Survival	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

