

PRODUCT SPECIFICATIONS

Detail Photos

(on right from top to bottom)

Heavy-duty galvanized Az/El Mount

Fine azimuth adjustments

RF tested Ku-band feed assembly



2.4 m Ku-band Dual Optics







Antenna System TYPE 244

The Skyware Global Type 244 2.4 m Dual Optics RxTx Antenna is a rugged commercial grade product suitable for the most demanding applications. The dual optics design provides the superior cross-pol discrimination demanded for optimum performance on the Eutelsat satellite system.

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 and helps to maintain the parabolic shape necessary for transmit performance.

The heavy-gauge steel Az/El provides a rigid support to the reflector and feed support arm. Heavy-duty lock-down bolts secure the mount to any 168 mm (6.63") O.D. mast and prevents slippage in high wind.

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

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- ETSI certified.
- Dual Optics design for ultra low cross-polarization.
- Two-piece precision offset thermosetmolded reflector.
- Heavy-duty galvanized Az/El mount.
- Fine Azimuth and elevation adjustments.
- Plated hardware for maximum corrosion resistance.
- Includes Ku-band feed assembly and precision aluminum sub-reflector.

Type approved for use on Eutelsat satellite system





Type 244 2.4 m Ku-band Dual Optics RxTx Antenna System

Type Approval Information

Antenna Model	 62 - 2445202
Eutelsat Standard	 L, M
Approval Code	 EA-027

(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	49.3 dBi @ 14.3 GHz 47.8 dBi @ 12.0 GHz
3 dB Beamwidth	.Tx	0.6° @ 14.3 GHz 0.7° @ 12.0 GHz
Sidelobe Envelope (Tx, C	p-Pol dBi) $2.5^{\circ} < \theta < 7^{\circ}$ $7^{\circ} < \theta < 9.2^{\circ}$ $9.2^{\circ} < \theta < 48^{\circ}$ $48^{\circ} < \theta < 180^{\circ}$	29 - 25 Log θ -3.5 32 - 25 Log θ -10
Antenna Cross-Polarizatio	Minimum 35 dB in 1 dB Contour	
Antenna Noise		
Temperature	10° El 20° El 30° El	45° K 31° K 30° K
VSWR	Tx	1.3:1 1.4:1
Isolation (Port to Port)	TxRx	80 dB 40 dB
Feed Interface	Tx	WR75 Flat Flange WR75 Flat Flange

Mec	hanical	l Perí	form	ance
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Reflector Material		Two-Piece Glass Fiber Reinforced Polyester
Antenna Optics		Offset Gregorian (Dual Optics)
Mount Type		Elevation over Azimuth
Elevation Adjustment Ran	ge	10° - 90° Continuous Fine Adjustment
Azimuth Adjustment Ranç	je	360° Continuous ±12° Fine Adjustmen
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

(All specifications typical)

