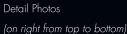


PRODUCT SPECIFICATIONS



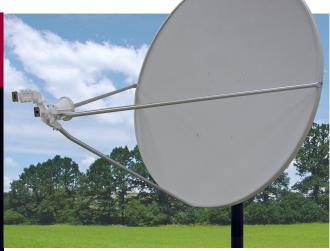
Pre-assembled Precision Az/El
Mount

Low Cross-Pol Feed Assembly

The antenna features a unique feed which provides cross-pol performance that exceeds industry standards.











1.2 m RxTx Class I Antenna System

The Skyware Global Type 125 1.2 m Offset 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 helps to sustain the necessary parabolic shape. The reflector optics feature a long focal length for excellent cross-pol performance.

The precision Az/El mount is constructed from heavy-gauge steel to provide a rigid support to the reflector. The Az/El mount secures the antenna to any 73-76 mm (2.88"-3.00") mast and prevents slippage in high winds. A specially formulated powder paint process offers excellent protection from weather-related corrosion.

The antenna features a unique feed which provides cross-pol performance that exceeds industry standards

- 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.
- Available with Ku-band co-pol or cross-pol feeds.
- Galvanized 19 mm (.75 in) O.D. feed support legs for lightweight outdoor units (ODU's).
- Plated hardware for maximum corrosion resistance.
- Az/El mount includes both elevation and azimuth fine adjustments
- Class I system designed for typical 1 W and 2 W Ku-band RF Electronics.*

* 1.7 kg or 3.7 lb max. weight (For BUC and LNB) 1.9 kg or 4.2 lb max. weight (For Transceiver)

Type 125 1.2 m RxTx Class I Antenna System

Type Approval Information

Antenna Model	 62 - 1255401
Eutelsat Standard	 M
Approval Code	 EA-V055

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

RF Performance

Effective Aperture		1.2 m (48 in)	
Operating Frequency	Tx	13.75 - 14.50 GHz 10.70 - 12.75 GHz	
Polarization		Linear, Orthogonal (Co-Pol Optional)	
Gain (±.2 dBi)	Tx	43.3 dBi @ 14.3 GHz 41.8 dBi @ 12.0 GHz	
3 dB Beamwidth	.Tx	1.2° @ 14.3 GHz 1.5° @ 12.0 GHz	
Sidelobe Envelope (Tx, Co-Pol dBi)			
onacione Envelope (in, c	1.5° < θ < 20°	29 - 25 Log Θ	
	$20^{\circ} < \theta < 26.3^{\circ}$	-3.5	
	26.3° < θ < 48°	32 - 25 Log θ	
	48° < θ < 180°	-10 (Typical)	
Antenna Cross-Polarization		>30 dB in 1 dB Contour	
Antenna Noise			
Temperature	10° El	45° K	
	20° El	31° K	
	30° El	24° K	
VSWR*	Tx	1.3:1	
	Rx	1.5:1	
Isolation* (Port to Port)	Тх	90 dB	
	Rx	>40 dB	
Feed Interface	Тх	WR75 Flat Flange	
	Rx	WR75 Flat Flange	

(All specifications typical)

Mechanical Performance

Reflector Material	Glass Fiber Reinforced Polyester
Antenna Optics	One-Piece Offset Feed Prime Focus
Mount Type	Elevation over Azimuth
Elevation Adjustment Range	5° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous; ±5° Fine Adjustment
Mast Pipe Interface	73 - 76 mm (2.88 in - 3.00 in) Diameter
Wind Loading Operational	72 km/h (45 mph) (<1 dB BPE) 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



