TYPE 243: 2.4m C-Band Circular Polarized RX/TX Class III Antenna System



PRODUCT SPECIFICATIONS

Detail Photos

(on right from top to bottom)

Heavy-duty galvanized Az/El Mount

Fine azimuth and elevation adjustments

RF tested C-band Circular Polarized feed assembly









Type approved for use on Intelsat satellite system





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 sustain the
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 C-band Circular Polarized RxTx Feed Assembly.
- Heavy-duty Class III mount for 11 kg (25 lb) RF electronics (LNB & BUC).

Satcom solutions for the long haul

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PRODUCT SPECIFICATIONS

Type Approval Information

Antenna Model		62 - 24303411L Type N 62 - 2433911L (WR137)		
Intelsat Standard		Standard G & H-2 (IESS 601)		
Approval Code		IA051A00		
(See Our Website for a Complete List of Type Approvals)				

RF Performance

Effective Aperture		.2.4 m (96 in)
Operating Frequency	Tx	
Polarization		Circular; Tx LH, Rx RH; c Tx RH, Rx LH
Gain (±.4 dBi)	Tx	-
3 dB Beamwidth	TxRx	-
Sidelobe Envelope	e (Tx, Co-Pol dBi) 2° <θ< 48° 48° <θ< 180°	•
Axial Ratio	.Tx	1.3 VAR (2.3 dB) 1.4 VAR (3.0 dB)
Antenna Noise Temperature	10° El	.35° K
VSWR	Tx	
Isolation (Port to Port)	Tx	
Feed Interface	Tx	
(All specifications typical)		



2.4 m C-band Circular Polarized Rx/Tx Class III

Mechanical Performance

Reflector Material	Glass Fiber Reinforced Polyester			
Antenna Optics		.One-Piece Offset Feed Prime Focus		
Mount Type		Elevation over Azimuth		
Elevation Adjustme	ent Range	10° - 90° Continuous Fine Adjustment		
Azimuth Adjustmei	nt Range	360° Continuous ±12° Fine Adjustment		
Feed Support	Rectan	gular Section with Alignment Legs		
Mast Pipe Interface		114 mm (4.50 in) Diameter		
Enviromental Performance				
Wind Loading Operational				
Temperature		-50°C to 80°C		
Humidity		0 to 100% (Condensing)		
Atmosphere	Stand	ard Hardware Meets 500 Hour Salt Spray Test Requirements (ASTM B-117)		
Solar Radiation		360 BTU/h/ft²		
Shock and Vibration	1	As Encountered During Shipping and Handling		





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