

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/EI
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/EI 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 thermoset-molded reflector.
- Heavy-duty galvanized Az/EI 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

1315 Outlet Center Drive, Smithfield, NC 27577

All designs, specification and availabilities of products and services presented in this bulletin are subject to change without notice. ©2014 Skyware Global

REV 03/15-01
Page 1 of 2

• PRODUCT SPECIFICATIONS

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

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	5.850 - 6.425 GHz
	Rx	3.625 - 4.200 GHz
Polarization	Circular; Tx LH, Rx RH; or Tx RH, Rx LH	
Gain (±.4 dBi)	Tx	42.2 dBi @ 6.1 GHz
	Rx	38.0 dBi @ 3.9 GHz
3 dB Beamwidth	Tx	1.3° @ 6.1 GHz
	Rx	2.1° @ 3.9 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)	2° <θ < 48°-.32 - 25 Log θ	
	48° <θ < 180°-10	
Axial Ratio	Tx	1.3 VAR (2.3 dB)
	Rx	1.4 VAR (3.0 dB)
Antenna Noise Temperature	10° El	.40° K
	20° El	.35° K
	30° El	.32° K
VSWR	Tx	1.3:1
	Rx	1.5:1
Isolation (Port to Port)	Tx	80 dB
	Rx	70 dB
Feed Interface	Tx	Type N or CPR-137
	Rx	CPR-229

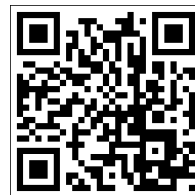
(All specifications typical)

Mechanical Performance

Reflector Material	Glass Fiber Reinforced Polyester
Antenna Optics	One-Piece Offset Feed Prime Focus
Mount Type	Elevation over Azimuth
Elevation Adjustment Range	10° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range	360° Continuous ±12° Fine Adjustment
Feed Support	Rectangular Section with Alignment Legs
Mast Pipe Interface	114 mm (4.50 in) Diameter

Environmental Performance

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/ft²	
Shock and Vibration	As Encountered During Shipping and Handling	



REV 03/15-01
Page 2 of 2



Satcom solutions for the long haul

1315 Outlet Center Drive, Smithfield, NC 27577

All designs, specification and availabilities of products and services presented in this bulletin are subject to change without notice. ©2014 Skyware Global