# 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

#### 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

RF Performance				
Effective Aperture		.2.4 m (96 in)		
Operating Frequency	Tx			
Polarization		Circular; Tx LH, Rx RH; o 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)			

#### **Mechanical Performance**

Reflector Material		Glass Fiber Reinforced	l Polyester	
Antenna Optics		One-Piece Offset F	eed Prime Focus	
Mount Type		Elevation ove	er Azimuth	
Elevation Adjustmer	nt Range	10° - 90° Co Fine A	ontinuous djustment	
Azimuth Adjustmen	t Range		uous ±12° djustment	
Feed Support		Rectangular Section with A	Alignment Legs	
Mast Pipe Interface		114 m	m (4.50 in) Diameter	
Enviromental Performance				
Wind Loading				
Temperature		50	°C to 80°C	
Humidity		0 to 100% (Co	ndensing)	
Atmosphere		Standard Hardware Meet: Salt Spray Test Req (AS		
Solar Radiation		360	BTU/h/ft <sup>2</sup>	



Shock and Vibration .....



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As Encountered During Shipping and Handling

