## Type243: 2.4m Ku Band RxTx Class III Antenna



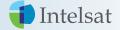
## PRODUCT SPECIFICATIONS

Detail Photos (on right from top to bottom) Heavy-duty galvanised Az/El Mount

Fine azimuth and elevation adjustments

RF tested Ku-band linear polarised feed Assembly

Type approval for use on Intelsat satellite system









# 2.4 m Ku-band RxTx Class III Antenna System TYPE 243

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 maintain its 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. A marinised version of the antenna is also available making it suitable for on-shore and offshore marine environments.

- All materials comply with EU directive No. 2011/65/EC (RoHS).
- Two-piece precision offset thermosetmolded reflector.
- Heavy-duty galvanized Az/El mount. marinised version includes 2 part epoxy paint finish.
- Fine Azimuth and elevation adjustments.
- HD Galvanised support arm and alignment struts. Marinised version has all galvanized steel components finished with 2 part epoxy paint.
- Factory pre-assembled mount.
- Plated hardware for maximum corrosion resistance. optional marinised version uses marine grade AISI 316 stainless steel hardware throughout.
- Includes Ku-band linear crosspolarized RxTx feed assembly.
- Heavy-duty Class III mount for 11 kg (25 lb) RF electronics (LNB & BUC).

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### PRODUCT SPECIFICATIONS

Type Approval Information
Antenna Model
Intelsat Standard Standard G & K-3 (IESS 601)
Approval Code
(See Our Website for a Complete List of Type Approvals)
RF Performance
Efffective Aperture 2.4m (96 in)
Operating Frequency         13.75 - 14.50 GHz           RX.         10.70 - 12.75 GHz
Polarization Linear, Orthogonal
Gain (±0.2 dB)         TX
3 dB Beamwidth TX 0.59° @ 14.3 GHz RX 0.71° @ 12.0 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)
$1^{\circ} < \theta < 20^{\circ}$
$20.3^{\circ} < \theta < 28.3$
48° < θ < 180°
Antenna Cross-Polarization
Antenna Noise Temperature
10° EL.       55K°         20° EL.       46K°         30° EL.       45K°
VSWR TX
Isolation(Port to Port) TX
Feed Interface TXWR75 Flat Flange RX

### (All specifications typical)

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#### 2.4m Ku-Band RxTx Class III Antenna

### **Mechanical Performance**

Reflector Material Glass Fiber Reinforced Composite
Antenna Optics 2-Piece Offset Feed Prime Focus
Mount TypeElevation Over Azimuth
Elevation Adjustment Range
Azimuth Adjustment Range 360° Continuous; ± 12° Fine Adjustment
Feed Support Regular Section with Alignment Legs
Mast Size
Antenna Weight
Enviromental Performance

#### **Enviromental Performance**

Operational Wind Speed 80km/h (50 mph)
Functional Survival 200km/h (125 mph)
Operational Temperature
Humidity
Atmosphere

Shock and Vibration. . . . . . . . . As Encountered during Shipping and handling



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