# Type 244: 2.4 m Ku-band Dual Optics

# Antenna System







- ISO9001:2008 Certification
- Eutelsat Certificate No. EA-V062
- Two-piece precision offset thermoset-molded reflector.
- Heavy-duty galvanized Az/El mount.
- Fine Azimuth and elevation adjustments.
- Plated hardware for maximum corrosion resistance.
- Includes Ku-band feed assembly and precision aluminum subreflector.
- All materials comply with EU directive No. 2002/95/EC (RoHS).



The **Skyware Global Type 244 2.4 m Dual Optics Rx/Tx Antenna** is a rugged commercial grade product suitable for the most demanding applications. The dual optics design provides the superior cross-pol discrimination demanded for optimum performance networks.

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 and helps to maintain the parabolic shape necessary for transmit performance.

The heavy-gauge steel Az/El provides a rigid support to the reflector and feed support arm. Heavy-duty lock-down bolts secure the mount to any 168 mm (6.63") O.D. mast and prevents slippage in high wind.

- Dual Optics design for ultra low cross-polarization.
- Hot-dip galvanizing is standard on this model for maximum environmental protection.
- Tx Cross-Polarization Isolation of 35dB within 1dB contour,



### PRODUCT SPECIFICATIONS

#### **RF Performance**

Operating Frequency TX		
Polarization	Linear, Orthogonal	
Gain (±0.3 dB) TX	.2 dBi @ 14.25GHz '.5 dBi @ 11.70GHz	
3 dB Beamwidth TX	0.6° @ 14.3GHz 0.7° @ 12.0GHz	
Sidelobe Envelope (Tx, Co-Pol dBi)		
2.5°< θ < 7°	3.5 dBi	
48°< θ < 180°	0	
ntenna Cross-Polarization within 1 dB contour X		
Antenna Noise Temperature 10° EL	31K°	
VCMD		
VSWR Tx		
Tx		

(All specifications typical)

## 2.4 m Ku-Band Dual Optics RxTx Antenna System

### **Mechanical Performance**

Reflector Material Two-Piece Glass Fiber Reinforced Polyester
Antenna Optics Offset Gregorian (Dual Optics)
Mount Type Elevation Over Azimuth
Elevation Adjustment Range 10° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range
Feed Support
Mast Pipe Interface 6.63 in (168 mm) Diameter

## **Enviromental Performance**

Wind Loading
Operational 50 mph (80 km/h)
Survival
Temperature50°C to +80°C
Humidity 0 to 100% (Condensing)
Atmosphere Standard Hardware Meets 500 Hrs SST Requirements (ASTM B-117)
Solar Radiation
Shock and Vibration As Encountered during Shipping and handling





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