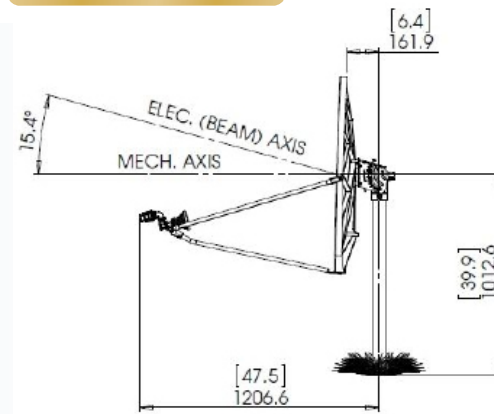


Type 965: 96cm Standard Rx/Tx Ku-Band LFL Class I Antenna



- ISO 9001:2008 Certificate of Registration
- Eutelsat Cert. No. EA-V061
- One-piece precision SMC Reflector
- Precision Az/EI Mount
- Fine Azimuth and Elevation Adjustment Features
- All Materials Comply with EU Directive No. 2002/95/EC (RoHS)
- 720 Hour Salt Spray Hardware
- Standard Waveguide Flange Interface



The **Skyware Global 96cm Standard Rx/Tx Ku-Band LFL Class I Antenna** is a rugged, commercial quality product suitable for the most demanding applications.

- The reflector is constructed from glass fiber reinforced polyester [SMC] for strength and accuracy. A proprietary process developed by Skyware Global insures high RF reflectivity as needed for Ku Band operation.
- The precision Az/EI mount is made of galvanized steel for excellent corrosion resistance. This mount includes special features to increase pointing accuracy with low backlash and lockdown error.
- This Az/EI allows the antenna to be installed on standard 73-76mm [2⁷/₈" - 3"] OD installation mounts.
- All hardware is plated to 720 hour salt spray standards tested in accordance with ASTM B-117.
- TX Cross-Polarisation of greater than 30db within 1dB contour.
- Excellent Port-to-Port Isolation of 90dB or better.
- Meets or exceeds regulator agency requirements.
- Class I system designed for typical 1 W and 2 W Ku-band RF Electronics.*

* 1.7 kg or 3.7 lb max. weight (For BUC and LNB) 1.9 kg or 4.2 lb max. weight (For Transceiver)



• **PRODUCT SPECIFICATIONS**

RF Performance

Operating Frequency
 TX13.75-14.50GHz
 RX10.70-12.75GHz

Polarization
Linear Orthogonal
(Col-Pol) Optional

Gain (±0.3 dB)
 TX43.3 dBi @ 14.3GHz
 RX41.1 dBi @ 11.2GHz

3 dB Beamwidth
 TX1.2° @ 14.3GHz
 RX1.6° @ 11.2GHz

Sidelobe Envelope (Tx, Co-Pol dBi)
 Mainbeam < θ < 20°29-25 log θ dBi
 20° < θ < 26.3°-3.5 dBi
 26.3° < θ < 48°32-25 log θ dBi
 48° < θ < 180°-10 dBi (Typical)

Antenna Cross-Polarization within 1dB contour
 TX30dB
 RX28dB

Antenna Noise Temperature
 10° EL48K
 20° EL35K
 30° EL29K

VSWR
 TX1.3:1 Max
 RX1.5:1 Max

Isolation**(Port to Port)
 TX90 dB
 RX40 dB

Feed Interface
 TXWR75 Flat Flange
 RXWR75 Flat Flange

(All specifications typical)
 (** With Skyware Global OMT/Filter)

96cm Standard Rx/Tx Ku-Band LFL Class I Antenna

Mechanical Performance

Reflector Material . . . Glass Fiber Reinforced Composite

Antenna Optics . . . One-Piece Offset Feed Prime Focus

Mount Type Elevation Over Azimuth

Elevation Adjustment Range 5°-90° Continuous
 Fine Adjustment

Azimuth Adjustment Range. 360° Continuous
 ± 5° Fine Adjustment

Mast Size 2 7/8" -3"
 (73-76mm) Diameter

Antenna Weight. Approx 13.51Kg
 (Not Including Mast)

Enviromental Performance

WindLoading
 Operational. 72km/h (45 mph)

Functional Survival 128km/h (80 mph)

Ultimate Survival. 200km/h (125 mph)

Survival Temperature -50°C to +80°C

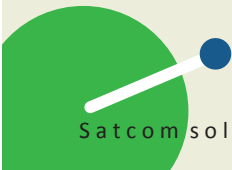
Operational Temperature -40°C to +55°C

Humidity. 0 to 100% (Condensing)

Atmosphere. Standard Hardware 720 Hrs
 SST Requirements (ASTM B-117)

Solar Radiation. 360 BTU/h/ft²

Shock and Vibration. As Encountered during
 Shipping and handling



Satcom solutions for the long haul



REV 03/15-02
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