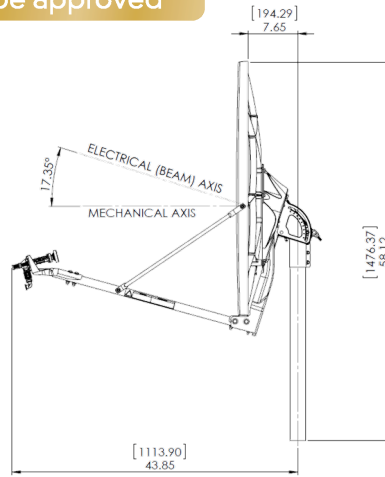


Type 988: 98cm Rx/Tx Standard and Extended Ka-Band Antenna



- ISO 9001:2008 Certificate of Registration
- Eutelsat Certificate No. EA-V064
- One-piece precision composite 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
- Designed for Skyware Global Ka Band Feed Components
- Designed for Tier I OEM Transceiver

New **Skyware Global 98cm Rx/Tx Standard and Extended Ka-Band Antenna** is a rugged, commercial quality product suitable for the most demanding applications.

- The reflector is constructed from glass fiber reinforced polyester for strength and accuracy. A proprietary process developed by Skyware Global ensures high RF reflectivity as needed for Ka-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 (60.3mm) [2.375"] OD installation mounts.
- All hardware is plated to 720 hour salt spray standards tested in accordance with ASTM B-117.
- Designed for use with the Skyware Global line of Ka-band Feed assemblies.
- Tx Cross-Polarization Isolation of 25dB within 1dB contour or better for CP Application.
- Excellent Tx Port to Port Isolation of 90dB or better
- Meets or exceeds regulatory agency requirements
- System designed for typical Ka-band RF Electronics



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1315 Outlet Center Drive, Smithfield, NC 27577 T + 1 919 934 9711 F + 1 919 989 2274 Sales @ Skyware Global.com

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• **PRODUCT SPECIFICATIONS**

RF Performance

Operating Frequency

Standard
 RX19.2-20.2GHz
 TX29.5-30.0GHz

Extended
 RX18.3-20.2GHz
 TX28.3-30.0GHz

Antenna Noise Temperature

Standard
 10° Elevation.....80K
 20° Elevation.....60K
 30° Elevation.....40K

Extended
 10° Elevation.....88K
 20° Elevation.....62K
 30° Elevation.....51K

Gain (+/0.3db)
 RX44.1 dBi @ 20.2GHz
 TX47.6 dBi @ 30.0GHz

VSWR 1.3:1 Max

3dB Beamwidth
 RX1.01° @ 20.2GHz
 TX0.69° @ 30.0GHz

Sidelobe Envelope Co-Pol (dBi)
 100 λ/D < θ < 20°29-25 log θ dBi
 20° < θ < 26.3°-3.5 dBi
 26.3° < θ < 48°32-25 log θ dBi
 0 > 48°-10 dBi (averaged)

Cross Polarization Isolation within 1dB contour
 RX 22 dBi
 TX 25 dBi

Isolation (Port to Port)
 RX80db
 TX90db

Output Waveguide Interface Flange
 RXWR42
 TXWR28

98cm Rx/Tx Standard and Extended Ka-Band Antenna

Mechanical Performance

Reflector Material..... Glass Fiber Reinforced Polyester

Antenna Optics 1-Piece Offset Feed Prime Focus

Mast Pipe Size 2.0" SCH 40 Pipe
 (2.375" OD) (60.3mm) Diameter

Elevation Adjustment Range 5°- 90° Continuous
 Fine Adjustment

Azimuth Adjustment Range 360°Continuous
 Course Adjustment
 ± 10° Fine Adjustment

Shipping Specifications.....
 Approx. Net Weight: 55lbs(25Kg)
 Approx. Packaged Weight: 65lbs(30Kg)

Enviromental Performance

Wind Loading
 Operational45 mph (72 km/h)

Functional Survival80 mph (128 km/h)

Ultimate Survival 125 mph (200 km/h)

Temperature (operational)-40° to 140°F
 (-40° to 60)°C

Rain (operational)..... ½"/hr

Corrosion Protection..... Hardware meets
 720 hour Salt Spray Test ASTM B-117

Relative Humidity 0 to 100% with Condensation

Solar Radiation360 BTU/h/ft²



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