1.8M Ku-band Rx/Tx Class III Antenna System

SKYWARE

PRODUCT SPECIFICATIONS

Detail Photos (on right from top to bottom)

Heavy-duty Az/El Mount

Fine Azimuith and Elevation Adjustments

RF tested Ku-band feed assembly

Type approved for use on Intelsat satellite system









1.8m Ku-band Rx/Tx Class III Antenna System TYPE 183

The Skyware Global Type 183 1.8 m Class III Rx/Tx 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 114 mm (4.50") 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 this antenna is also available making it suitable for on-shore and offshore marine enviroments

- All materials comply with EU directive No. 2011/65/EC (RoHS).
- One-piece precision offset thermosetmolded reflector.
- Heavy-duty galvanized Az/El mount.
- Fine Azimuth and elevation adjustments.
- HD Galvanised support arm and alignment struts Marinised version has all galvanised 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

Type Approval Illiorillation
Antenna Model
Intelsat Standard Standard G & K2 (IESS 601)
Approval Code
(See Our Website for a Complete List of Type Approvals)
RF Performance
Effective Aperture 1.8m (71 in)
Operating Frequency 13.75 -14.50 GHz RX 10.70 -12.75 GHz
Polarization Linear, Orthogonal
Gain (±0.2 dB) TX .46.8 dBi @ 14.3 GHz RX .45.3 dBi @ 12.0 GHz
3 dB Beamwidth TX 0.79° @ 14.3 GHz RX0.99° @ 12.0 GHz
Sidelobe Envelope (Tx, Co-Pol dBi) $29-25 \log \theta$ $20^{\circ} < \theta < 26.3^{\circ}$ -3.5 $26.3^{\circ} < \theta < 48^{\circ}$ $32-25 \log \theta$ $48^{\circ} < \theta < 180^{\circ}$ -10
Antenna Cross-Polarization* 30db (On Axis)
Antenna Noise Temperature 10° EL
VSWR Tx
Isolation (Port to Port) Tx
Feed Interface Tx

1.8 m Ku-band Rx/Tx Class III Antenna

Mechanical Performance

Reflector Material Glass Fiber Reinforced Polyester
Antenna Optics One-Piece Offset Feed Prime Focus
Mount Type Elevation over Azimuth
Elevation Adjustment Range
Azimuth Adjustment Range 360° Continuous, \pm 10° Fine Adjustment
Feed Support Rectangular Section with Alignment Legs
Mast Pipe Interface
Enviromental Performance
Wind Loading
Operational 50 mph (80 km/h)
Survival
Temperature50°C to +80°C
Humidity
Atmosphere
Solar Radiation
Shock and Vibration As Encountered during Shipping and handling



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All specifications typical)

Rx......WR75 Flat Flange