## 1.8M C-band Rx/Tx Class III Antenna System



## PRODUCT SPECIFICATIONS

Detail Photos (on right from top to bottom)

Heavy-duty Az/El Mount

Fine Azimuith and Elevation Adjustments

RF tested C-band Linear Polarized feed assembly

This reflector is thermoset-molded for strength and surface accuracy







# 1.8m C-band Linear 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 supportribswhichnotonlystrengthensthe 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 environments.

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- One-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).

#### PRODUCT SPECIFICATIONS

RF Performance	C-band Linear
Effective Aperture	1.8m (71 in)
Operating Frequency TX	5.850 -6.725 GHz 3.400 -4.200 GHz
Polarization	Linear, Orthogonal
Gain (±0.3 dB) TXRX	39.3 dBi @ 6.1 GHz 35.4 dBi @ 3.9 GHz
	2.0° @ 6.1 GHz 3.0° @ 3.9 GHz
20° < θ< 26.3° 26.3° <θ< 48°	Co-Pol dBi) 29-25 log θ 3.5 32-25 log θ 10
Antenna Cross-Polarizat	ion30db On Axis
20° EL	ture
	60db 60db
Feed Interface TxRx	Type N or CPR-137 CPR-229

All specifications typical)

#### 1.8 m C-band Linear Rx/Tx Class III Antenna

### Mechanical Performance

Reflector MaterialGlass Fiber Reinforced Polyester
Antenna Optics One-Piece Offset Feed Prime Focus
Mount Type Elevation over Azimuth
Elevation Adjustment Range 10° - 90° Continuous Fine Adjustment
Azimuth Adjustment Range360° Continuous, ± 10° Fine Adjustment
Mast Pipe Interface114 mm (4.50in) Diameter
Enviromental Performance
Wind Loading
Operational50 mph (80 km/h)
Survival
Temperature50°C to +80°C
Humidity0 to 100% (Condensing)
AtmosphereStandard Hardware Meets 500 Hrs SST Requirements (ASTM B-117)Marinised Option has AISI 316 stainless steel hardware
Solar Radiation
Shock and Vibration As Encountered during Shipping and handling





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