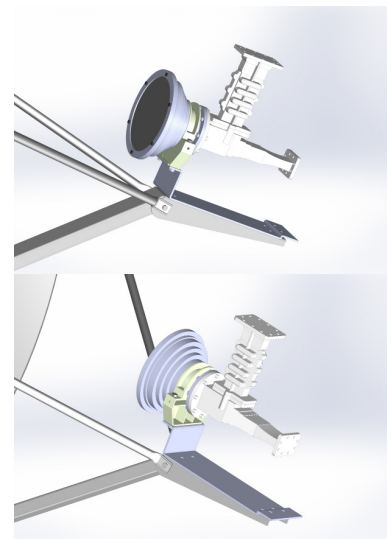
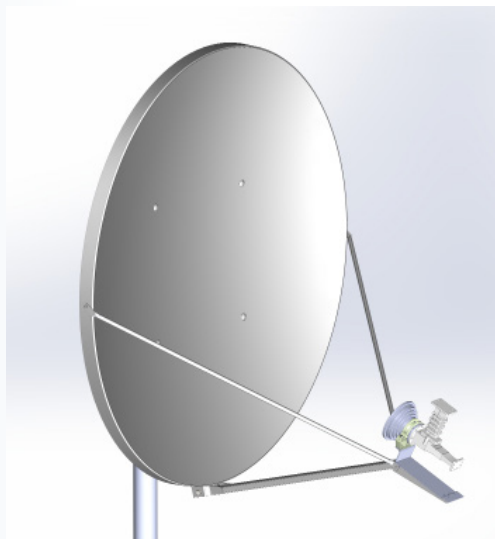


# 1.8M C-band RxTx Class III Antenna System



- One-piece precision offset thermoset-molded reflector.
- All materials comply with EU directive No. 2011/65/EC (RoHS).
- Fine Azimuth and elevation adjustments.
- Heavy-duty galvanized Az/El mount. Marine version includes 2 part epoxy paint finish.
- Factory pre-assembled mount.

## 1.8m C-band Linear RxTx Class III Antenna System TYPE 183

The **Skyware Global Type 183 1.8m Class III RxTx 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 marine version of this antenna is also available making it suitable for on-shore and offshore marine environments.

- HD Galvanized support arm and alignment struts. Marine version has all galvanized steel components finished with 2 part epoxy paint.
- Plated hardware for maximum corrosion resistance. Optional marine version uses marine grade AISI 316 stainless steel hardware throughout.
- Includes C-band linear cross-polarized RxTx feed assembly.
- Heavy-duty Class III mount for 11 kg (25 lb) RF electronics (LNB & BUC).



Satcom solutions for the long haul

1315 Outlet Center Drive, Smithfield, NC 27577

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**• PRODUCT SPECIFICATIONS**

Antenna Model. . . . . 62-1834011

**RF Performance**

Effective Aperture . . . . . 1.8m (71 in)

**Operating Frequency**

TX. . . . . 5.850 -6.725 GHz

RX. . . . . 3.400 -4.200 GHz

Polarization. . . . . Linear, Orthogonal

**Gain (±0.3 dB)**

TX. . . . . 39.3 dBi @ 6.1 GHz

RX. . . . . 35.4 dBi @ 3.9 GHz

**3 dB Beamwidth**

TX. . . . . 2.0° @ 6.1 GHz

RX. . . . . 3.0° @ 3.9 GHz

**Sidelobe Envelope (Tx, Co-Pol dBi)**

2.5° < q < 20°. . . . . 29-25 log q

20° < q < 26.3°. . . . . -3.5

26.3° < q < 48°. . . . . 32-25 log q

48° < q < 180°. . . . . -10

Antenna Cross-Polarization. . . . . 30db On Axis

**Antenna Noise Temperature**

10° EL. . . . . 41°K

20° EL. . . . . 36°K

30° EL. . . . . 33°K

**VSWR**

Tx. . . . . 1.3:1

Rx. . . . . 1.5:1

**Isolation (Port to Port)**

Tx. . . . . 80db

Rx. . . . . 60db

**Feed Interface**

Tx. . . . . CPR-137

Rx. . . . . CPR-229

(All specifications typical)

**1.8 m C-band Linear RxTx 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. . . . . 10° - 90° Continuous  
Fine Adjustment

Azimuth Adjustment Range. . . . . 360° Continuous,  
± 10° Fine Adjustment

Mast Pipe Interface. . . . . 114 mm (4.50in) Diameter

**Environmental Performance**

**Wind Loading**

Operational. . . . . 50 mph (80 km/h)

Survival. . . . . 125 mph (200 km/h)

Temperature. . . . . -50°C to +80°C

Humidity. . . . . 0 to 100% (Condensing)

Atmosphere. . . . . Meets 500 Hrs  
SST Requirements (ASTM B-117)

. . . . . Marinised Option has  
AISI 316 stainless steel hardware

Solar Radiation. . . . . 360 BTU/h/ ft<sup>2</sup>

Shock and Vibration. . . . . As Encountered during  
Shipping and handling

