

**PRODUCT
SPECIFICATIONS**

Detail Photos

(on right from top to bottom)

Heavy-duty galvanized Az/El
Mount

Fine azimuth and elevation
adjustments

RF tested C-band Linear
Polarized feed assembly



The reflector is thermoset-
molded for strength and
surface accuracy.



1.8 m C-band Linear RxTx Class III Antenna System

TYPE 183

The Skyware Global Type 183 1.8 m 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 each 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.

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- One-piece precision offset thermoset-molded reflector.
- Heavy-duty galvanized Az/El mount.
- Fine Azimuth and elevation adjustments.
- Galvanized support arm and alignment struts.
- Factory pre-assembled mount.
- Plated hardware for maximum corrosion resistance.
- RF tested feed assembly.
- Heavy-duty Class III mount for 11 kg (25 lb) RF electronics (LNB & BUC).

SPECIFICATIONS

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

RF Performance

		C-band Linear
Effective Aperture		1.8 m (71 in)
Operating Frequency	Tx	5.850 - 6.725 GHz
	Rx	3.400 - 4.200 GHz
Polarization		Linear, Orthogonal
Gain (± 3 dBi)	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)	$2.5^\circ < \theta < 20^\circ$	29 - 25 Log θ
	$20^\circ < \theta < 26.3^\circ$	-3.5
	$26.3^\circ < \theta < 48^\circ$	32 - 25 Log θ
	$48^\circ < \theta < 180^\circ$	-10
Antenna Cross-Polarization		30 dB 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	60 dB
	Rx	60 dB
Feed Interface	Tx	Type N or CPR-137
	Rx	CPR-229

(All specifications typical)

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 $\pm 10^\circ$ Fine Adjustment
Mast Pipe Interface		114 mm (4.50 in) Diameter
Wind Loading	Operational	80 km/h (50 mph)
	Survival	200 km/h (125 mph)
Temperature		-50°C to 80°C
Humidity		0 to 100% (Condensing)
Atmosphere		Standard Hardware Meets 500 Hour Salt Spray Test Requirements (ASTM B-117)
Solar Radiation		360 BTU/h/ft ²
Shack and Vibration		As Encountered During Shipping and Handling

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