Type 183: 1.8M C-band Circular Polarized Rx/Tx Class III Antenna System



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 Circular Polarized feed assembly







1.8m C-band Circular Polarized Rx/Tx Class III Antenna System TYPE 183

he 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.

- All materials comply with EU directive No. 2002/95/EC (RoHS).
- One-piece precision offset thermosetmolded reflector.
- · Heavy-duty galvanized Az/El mount.
- Fine Azimuth and elevation adjustments.
- Galvanised 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).



Intelsat

Type approved for use on

Intelsat satellite system



PRODUCT SPECIFICATIONS

1.8 m C-band Polarized Rx/Tx Class III Antenna

Type Approval Information

	2 - 1833411L/R Type N 2 - 1833911L/R (WR137)		
ntelsat Standard G & H-2 (IESS 601)			
Approval Code	IA050A00		
(See Our Website for a Complete List of Type Approvals)			

RF Performance

THE PERIOR PROPERTY OF		
Effective Aperture		1.8 m (71 in)
Operating Frequency	Tx	
Polarization		Circular; Tx LH, Rx RH; c Tx RH, Rx LH
Gain (±.4 dBi)	.Tx	
3 dB Beamwidth	Tx Rx	
Sidelobe Envelope	e (Tx, Co-Pol dBi) 2.8° < q < 20° 20° < q < 26.3° 26.3° < q < 48° 48° < q < 180°	29 - 25 Log q -3.5 32 - 25 Log q -10
Axial Ratio	.Tx	1.3 VAR (2.3 dB) 1.4 VAR (3.0 dB)
Antenna Noise Temperature	10° El	36° K
VSWR	Tx	
Isolation (Port to Port)	Tx	
Feed Interface	Tx	
(All specifications	typical)	

Mechanical Performance

Reflector Material	Gl	lass Fiber Reinforced Polyester	
Antenna Optics		One-Piece Offset Feed Prime Focus	
Mount Type		Elevation over Azimuth	
Elevation Adjustme	ent Range	10° - 90° Continuous Fine Adjustment	
Azimuth Adjustme	nt Range	360° Continuous ±10° Fine Adjustment	
Feed Support	Rectan	ngular Section with Alignment Legs	
Mast Pipe Interface			
Enviromental Performance			
Wind Loading	·		
Temperature		-50°C to 80°C	
Humidity		0 to 100% (Condensing)	
Atmosphere	Stand	ard Hardware Meets 500 Hour Salt Spray Test Requirements (ASTM B-117)	
Solar Radiation		360 BTU/h/ft ²	
Shock and Vibration	າ	As Encountered During Shipping and Handling	





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