

1.8m RxTx Class III High Wind Antenna System



Type 184 Antenna Product Specification



RF Performance

MODEL#	18416 C Band	18436 Ku Band
Effective Aperture	1.8m (71in)	
Operating Frequency	Tx. 5.850 - 6.725 GHz	13.75-14.50 GHz
	Rx. 3.400 - 4.200 GHz	10.70-12.75 GHz
Polarization	Linear Orthogonal	
Gain (±0.2 dB)	Tx. 39.3 dBi @ 6.1 GHz	46.7 dBi @ 14.3 GHz
	Rx. 35.4 dBi @ 3.9 GHz	45.0 dBi @ 11.7 GHz
3dB Beamwidth	Tx. 2.0° @ 6.1 GHz	0.8° @ 14.3 GHz
	Rx. 3.0° @ 3.9 GHz	1.1° @ 11.2 GHz
Sidelobe Envelope (Tx, Co-Pol dB)	Mainbeam < Θ < 20° 29 - 25 Log Θ dB	
	20° < Θ < 26.3° -3.5 dB	
	26.3° < Θ < 48° 32-25 Log Θ dB	
	48° < Θ < 180° -10 dB	
Antenna Cross-Polarization (within 1dB contour)	Tx. 30dB (on axis) 29 dB	
	Rx. 30dB (on axis) 21 dB	
Antenna Noise Temperature	10° Elev. 41° K 43° K	
	20° Elev. 36° K 28° K	
	30° Elev. 33° K 23° K	
VSWR	Tx. 1.3:1 1.3:1	
	Rx. 1.5:1 1.5:1	
Isolation (Port to Port)	Tx. 60 dB 90 dB	
	Rx. 60 dB 40 dB	
Feed Interface	Tx. Type N or CPR-137 WR75 Flat Flange	
	Rx. CPR-137 WR75 Flat Flange	

Mechanical Performance

Reflector Material	Glass Fiber Reinforced Polyester	
Antenna Optics	One-Piece Offset Feed Prime Focus	
Mount Type	Elevation over Azimuth	
Maximum Radio Weight	11 kg or 25 lbs for RF Electronics	
Elevation Adjustment Range	10° - 90° Continuous Fine Adjustment	
Azimuth Adjustment Range	360° Continuous, ±10° Fine Adjustment	
Mast Pipe Size	5" or 5.56" (127mm or 141mm) diam.	
Wind Loading.	Operational	105 km/h (65 mph)
	Survival	241 km/h (150 mph)
Temperature	-50°C to +60°C	
Humidity	0 to 100% (Condensing)	
Atmosphere	Standard Hardware Meets 720 Hour Salt Spray Test Requirements (ASTM B-117)	
Solar Radiation.360 BTU/h/ft2	
Shock and Vibration	As Encountered During Shipping and Handling	

Providing the Global Skyware Brand of 1.8m & 2.4m VSAT Antennas....



All designs, specifications and availabilities of products and services presented in this bulletin are subject to change without notice.

REV 10/25 - 05