

2.4m Tx/Rx Dual Axis Motorized Mount Antenna

Features

- Dual Axis Motorized Az/EI Navigator Mount
- Extended Azimuth and Elevation Travel
- Inclined Orbit Tracking Capable
- Mounts on 6 5/8" OD Mast
- Includes Motors, Actuators and Controller
- C and Ku-Band
- Transmit/Receive Ready
- De-icing Option
- Complete Uplink Packages Available



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ANTENNA SIZE		KU Band	C-Band Linear	C-Band Circular
Operating Frequency (GHz)	Receive	10.70 – 12.75	3.625 – 4.20	3.625 – 4.20
	Transmit	13.75 – 14.5	5.85 – 6.425	5.85 – 6.425
Midband Gain ($\pm .2$ dB)	Receive	47.4 dBi	38.00 dBi	38.0 dBi
	Transmit	49.2 dBi	42.0 dBi	42.0 dBi
Antenna Noise Temp (10° Elevation)		78 K	47 K	53 K
Antenna Noise Temp (40° Elevation)		70 K	43 K	49 K
Sidelobe Envelope, Co-Pol				
$100\lambda D^\circ \leq \theta \leq 20^\circ$		29 – 25 Log θ dBi		
29 – 25 Log θ dBi		-3.5 dBi		
$26.3^\circ < \theta \leq 48^\circ$		32 – 25 Log θ dBi		
$\theta > 48^\circ$		-10 dBi (averaged)		
Cross-Polarization (Linear)		>30 dB (on axis)		N/A
Axial Ratio Circular		N/A		Tx 2.28 Rx 2.28
Feed Interface Receive	Receive	WR 75	CPR 229F	
Feed Interface Receive	Transmit	WR 75	CPR 137 or N	
MECHANICAL SPECIFICATIONS				
Reflector		Glass Fiber Reinforced Polyester SMC		
Antenna Optics		4 Piece, Prime Focus, Offset		
Mast Pipe Size		6" SCH 80 Pipe (6.62" OD)		
Elevation Travel	Regular Inverted	45 – 90° 8 to 90° (70° Range of motion)		
Azimuth Travel		120°		
ENVIRONMENTAL SPECIFICATIONS				
Operational Wind Speed		50 mph (80 km/h)		
Survival Wind Speed		125 mph (201 km/h)		
Temperature – Operational		-40° to 140°F (-40° to 60° C)		