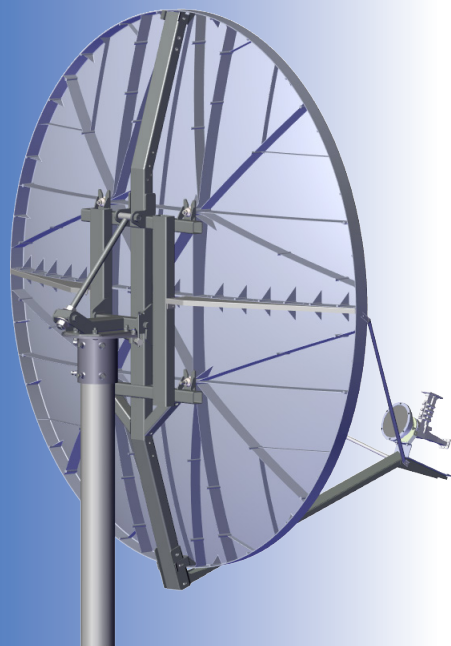


2.4m RxTx Class IIH Antenna System



Type 243H / 244 Antenna Product Specification

- ISO 9001:2008
Certificate Of Registration



RF Performance

MODEL#	24416 C Band	243H36 Ku Band
Effective Aperture.2.4m (96in)2.4m (96in)
Operating Frequency	Tx 5.850-6.425 GHz	13.75-14.50 GHz
	Rx 3.625-4.200 GHz	10.70-12.75 GHz
Polarization.	Circular or Linear Linear, Orthogonal	
Gain (±0.2 dB)	Tx 42.2 dBi @ 6.1 GHz	48.9 dBi @ 14.3 GHz
	Rx 38.2 dBi @ 3.9 GHz	47.4 dBi @ 12.0 GHz
3dB Beamwidth	Tx 1.3°@6.1 GHz	0.59°@14.3 GHz
	Rx 2.1°@3.9 GHz	0.71°@12.0 GHz
Sidelobe Envelope (Tx, Co-Pol dB)	Mainbeam < Θ < 20° 9 - 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-Polarization30 dB on Axis	30 dB on Axis
Antenna Noise Temperature	10° El 45° K	55° K
	20° El 40° K	46° K
	30° El 35° K	45° K
VSWR	Tx 1.3:1	1.3:1
	Rx 1.5:1	1.5:1
Isolation (Port to Port)	Tx 80 dB	80 dB
	Rx 70 dB	35 dB
Feed Interface	Tx Type N or CPR-137	WR75 Flat Flange
	Rx CPR-229	WR75 Flat Flange

Mechanical Performance

Reflector Material	Glass Fiber Reinforced Polyester	
Antenna Optics.	Two-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, ±12° Fine	
Mast Pipe Size	6" Sch 80 Pipe (6.62" O.D.)(16.8cm)	
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 500 Hour	
	Salt Spray Test Requirements (ASTM B-117)	
Solar Radiation.	360 BTU/h/ft2	
Shock and Vibration	As Encountered During Shipping and Handling	

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