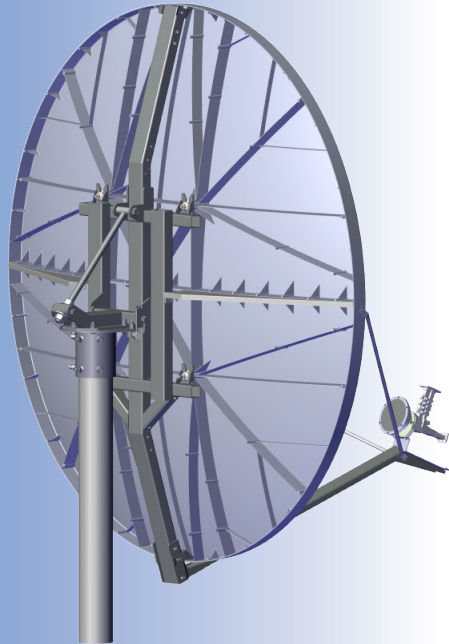


2.4m RxTx Class IIIH Antenna System



Type 243H Antenna Product Specification

- ISO 9001:2008
Certificate Of Registration



RF Performance

	MODEL#	243H16 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	
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
Isolation (Port to Port)	Rx	1.5:1	1.5:1
	Tx	80 dB	80 dB
Feed Interface	Rx	70 dB	35 dB
	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	

REV 03/18 - 02

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