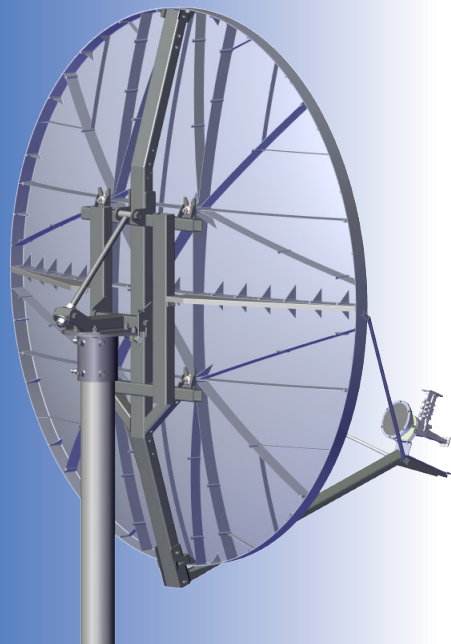


2.4m RxTx Class IIIH Antenna System



Type 243H / 244
Antenna Product
Specification



RF Performance

MODEL#	24416 C Band	243H36 Ku Band
Effective Aperture.2.4m (96in)	2.4m (96in)
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.	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	20° El	40° K 46° K
	30° El	35° K 45° K
	VSWR	Tx 1.3:1 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 MaterialGlass 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 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....

