

1.2m Flyaway Antenna System

Eagle Series



- Three piece antenna terminal assembly: reflector, pedestal and boom arm.
- One or three piece lightweight composite reflector
- Stainless steel hardware for excellent corrosion resistance
- Captive Hardware
- Anodized Pedestal
- Same antenna optics as standard VSAT products
- Transceiver Agnostics
- Meets or exceeds regulatory agency requirements
- Available Ka and Ku RF components
- Available Accessories; GPS, Compass, Stakes, RF Cables



RF Performance

MODEL#	12136 Ku-Band	12156 Ka-Band
Effective Aperture	1.2m (48 in)	1.2m (48 in)
Operating Frequency	Tx 13.75 - 14.50 GHz Rx 10.70 - 12.75 GHz	. . . . . 28.00 - 30.00 GHz 18.10 - 20.20 GHz
Polarization	. . . . . Linear, Dual	. . . . . Linear or Circular
Gain (± 0.2 dBi)	Tx 43.3 dBi @ 14.3 GHz Rx 41.1 dBi @ 11.2 GHz	. . . . . 49.3 dBi @ 30.0 GHz 46.2 dBi @ 20.2 GHz
Cross Polarization	Tx 30dB 1dB contour Rx 30dB 1dB contour	. . . . . circular25dB circular22dB
Antenna Noise Temperature	10° Elevation 60K 20° Elevation 50K 30° Elevation 45K	. . . . . 88K 62K 51K
3dB Beamwidth	Tx 1.2° @ 14.3 GHz Rx 1.6° @ 11.2 GHz	. . . . . 0.56° @ 30.0 GHz 0.83° @ 20.2 GHz
Isolation (Port to Port)	Tx 90dB Rx 40dB	. . . . . 90dB 80dB
Output Waveguide Interface Flange	Tx WR75 Rx WR75	. . . . . WR28 WR42
Sidelobe Envelope (Tx, Co-Pol dBi)	100 λ/D < Θ < 20° 20° < Θ < 26.3° 26.3° < Θ < 48° 48° < Θ < 180° . . . . .	. . . . . 29 - 25 Log Θ dB -3.5 dB 32-25 Log Θ dB -10 dBi (averaged)
VSWR	. . . . . 1.3:1 Max	. . . . . 1.2:1 Max

Mechanical Performance

Reflector Material	. . . . . One-Piece Lightweight Composite Optional Four-Piece Lightweight Composite
Mount Type	. . . . . Elevation over Azimuth
Maximum Radio Weight	. . . . . 3.6kg or 8lb for RF Electronics
Elevation Adjustment Range	. . . . . .5° - 90° Continuous, ±5° Fine
Azimuth Adjustment Range	. . . . . 360° Continuous, ±5° Fine
Wind Loading	. . . . . Operational (without ballast) 48km/h (30 mph) With Ballast (with staking)96 km/h (60 mph)
Temperature	. . . . . -30°C to 60°C
Humidity	. . . . . 0 to 100% (Condensing)
Rain	. . . . . Operational 4" / hr (10cm / hr) Survival 6" / hr (15cm / hr)
Solar Radiation	. . . . . 360 BTU/h/ft2
Weight Without Case	. . . . . Pedestal 45 lbs Reflector 23 lbs
Weight With Case	. . . . . Pedestal 100 lbs Reflector 55 lbs
Transit Case Pedestal 45" x 25" x 16.5" Reflector (3 panel) 51"L x 22"W x 16"D

1315 Outlet Center Drive, Smithfield NC 27577

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T + 1 (919) 934-9711 F + 1 (919) 989-2274 Sales@skywareglobal.com

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