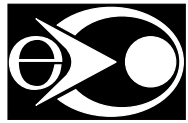


Type 124



EUTELSAT
VSAT TYPE APPROVED

Channel Master[®]

1.2M RECEIVE/TRANSMIT OFFSET ANTENNA SYSTEM

FEATURES

- One-piece precision offset compression-molded reflector.
- Heavy-duty galvanized AZ/EL mount.
- Fine azimuth and elevation adjustment.
- Galvanized support arm and alignment struts.
- Factory pre-assembled mount.
- Galvanized and stainless hardware for maximum corrosion resistance.
- Available with a variety of Ku-Band Rx/Tx feed assemblies and ODU mounting kits.



The Channel Master[®] Type 124 1.2m Offset Rx/Tx Antenna is a rugged commercial grade product suitable for the most demanding applications. The reflector is compression-molded for strength and surface accuracy. Molded into the rear of the reflector is a network of support ribs which not only strengthens the antenna, but also helps to sustain the critical parabolic shape necessary for transmit performance. The reflector optics feature a long focal length for excellent cross-pol performance, required by many satellite operators.

The AZ/EL mount is constructed from heavy-gauge steel to provide a rigid support to the reflector. The AZ/EL mount secures the antenna to any 3.00" O.D. mast and prevents slippage in high winds. Hot-dip galvanizing is standard for maximum environmental protection.

Type 124



EUTELSAT
VSAT TYPE APPROVED



1.2m RECEIVE/TRANSMIT OFFSET ANTENNA SYSTEM

Specifications

RF PERFORMANCE

Effective Aperture		1.2m (48 in.)
Operating Frequency	Tx	13.75 - 14.50 GHz
	Rx	10.70 - 12.75 GHz
Polarization		Linear, Orthogonal
Gain (± 2 dBi)	Tx	43.3 dBi @ 14.25 GHz
	Rx	41.8 dBi @ 11.95 GHz
3 dB Beamwidth	Tx	1.2° @ 14.3 GHz
	Rx	1.5° @ 12.0 GHz
Sidelobe Envelope (Tx, Co-Pol dBi)		
		1.5° < θ < 20°
		20° < θ < 26.3°
		26.3° < θ < 48°
		48° < θ < 180°
Antenna Cross-Polarization		≥30 dB in 1 dB Contour
Antenna Noise Temperature	10° EI	45°K
	20° EI	31°K
	30° EI	24°K
VSWR		1.3:1 Max.
Isolation	Tx	70 dB min
	Rx	35 dB min
Feed Interface	Tx	WR-75
	Rx	WR-75

MECHANICAL PERFORMANCE

Reflector Material		Glass Fiber Reinforced Polyester
Antenna Optics		One-Piece Offset Feed Prime Focus - Long Focal Length
Mount Type		Elevation over Azimuth
Elevation Adjustment Range		10°-90° Continuous Fine Adjustment
Azimuth Adjustment Range		360° Continuous; $\pm 20^\circ$ Fine Adjustment
Mast Pipe Interface		3.00 Inch (76 mm) Diameter
Wind Loading	Operational	50 Mi/h (xx Km/h)
	Survival	125 Mi/h (200 Km/h)
Temperature		-50°C to 80°C
Humidity		0 to 100% (Condensing)
Atmosphere		Salt, Pollutants and Contaminants as Encountered in Coastal and Industrial Areas
Solar Radiation		360 BTU/h/ft ²
Shock and Vibration		As Encountered During Shipping and Handling



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