

1.2 Meter Ku-Band Rx/Tx Antenna

Satcom & Antenna Technologies Division



Overview

The CPI Satcom & Antenna Technologies Inc. (CPI SAT) 1.2m Ku-Band VSAT Antenna Series 1134 is ideally suited for demanding commercial applications. The one-piece compression molded reflector is precision manufactured for high-efficiency Ku-Band operation.

The Az/El mount is designed for easy installation on standard 2-7/8" OD Installation Mounts, and features fine Azimuth and Elevation Adjustments. The Az/El mount is constructed from heavy gauge galvanized steel for strength and corrosion resistance.

FEATURES:

- Transmit quality precision SMC reflector
- Fine elevation and azimuth adjustments
- Available with a variety of feed and feed support options
- Long focal length optics for low cross-pol
- Durable and rugged construction for ease of shipping and handling
- Heavy gauge pre-galvanized steel Az/El mount
- Tier 3 Feed Support for larger RF packages
- Optional Feed Stabilizer for heavy RF equipment

BENEFITS:

- One-piece compression molded reflector
- Easy installation

APPLICATIONS:

- Ideally suited for demanding commercial applications

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Specifications

ELECTRICAL ⁽¹⁾	Ku-Band Linear, Orthogonal Polarized	
	Receive	Transmit
Antenna Size	1.2 m (48 in.)	
Operating Frequency (GHz)	10.700 - 12.750	13.750 - 14.500
Antenna Gain, Midband (+/- .3dBi)	41.5 dBi	43.0 dBi
Antenna Beam Width	1.5°	1.2°
Antenna Sidelobe Envelope	Per ITU-R S.580-6	
Antenna Noise Temperature		
20° Elevation	46°K	
30° Elevation	43°K	
Cross Polarization Isolation	30 dB (on axis), 26 dB in 1 dB Contour	
Port-Port Isolation	30 dB min	85 dB min
Insertion Loss	0.4 dB max	0.2 dB max
VSWR	1.5:1 max	1.3:1 max

⁽¹⁾ Some specifications may vary based on the combination of equipment, options and/or upgrades ordered.

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Specifications

MECHANICAL ⁽¹⁾	
Reflector Material	Glass fiber reinforced polyester SMC
Antenna Optics	Prime focus, offset, 0.8 F/D
Mount Type	Elevation over azimuth
Mast Pipe Interface	2.5 SCH 9ipe (2.88" OD) or 3.00" OD (73 or 76mm)
Elevation Adjustment Range	5° to 90° continuous fine adjustment
Azimuth Adjustment Range	360° continuous, ± 20° fine adjustment
Max RF Equipment Weight	Tier 2 feed support = 12 lb. (5.5 kg)
ENVIRONMENTAL ⁽¹⁾	
Wind Loading	Operational Survival (any Position)
	50 mi./h (72 km/h) 125 mi./h (200 km/h)
Temperature	Operational Survival
	-40 to 140° F (-40° to 60° C) -50° to 160° F (-46° to 71° C)
Rain	Operational Survival
	1/2"/h (13mm/h) 2"/h (51mm/h)
Ice	Survival
	1/2" (13mm) radial ice
Atmospheric Conditions	Salt, pollutants, and contaminants as encountered in coastal and industrial areas
Solar Radiation	360 BTU/h/ft ² (1,135 W/m ²)

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