1.2m Roof-Mounted Auto-Point Antenna

VS-120 MVSATKU

VIKING SATCOM

Your Trusted Source for Satellite Equipment

- **Mobile VSAT, Roof-Mounted Antenna**
- **Single-Button, Auto-Point Control System**
- **Inclined orbit tracking capable**
- **Integrated with major Network Platforms**

GENERAL SPECIFICATIONS	
Reflector Type	1.2 M .8 F/D Glass Fiber Reinforced Polyester SMC
Optics Offset	Prime Focus Offset Feed
BUC Supported	15 lbs. / 12" L x 7.75" W x 5.5" H
Polarization	Cross-pol
Mount Geometry	Elevation Over Azimuth
DIMENSIONS	
Stowed Dimensions	15" H x 85.75" L x 49" W_
Max Deployed Height	84"
Mount Rail Width	13"
Weight	150 lbs. Approx
MECHANICAL	
Range Of Motion: Azimuth	375° (+/- 187.5°)
Elevation	5° to 100° Operational
Polarization	+/- 90°
Speed: Deploying Elevation	4.6° Per Second
Stowing Elevation	5.0° Per Second
Deploying Azimuth	7.5° Per Second
Time to Acquisition	< 2 Minutes (Typical)
Motors: Elevation	24V HD Linear Actuator (0.1° Resolution)
Azimuth	24V HD Brushless Motor (0.1° Resolution)
Polarization	24V HD Brushless Motor (0.1° Resolution)
Drive Override	Electrical Elevation, Manual for AZ and SK

RF	
Tx Interface	Waveguide - 3' WR75
	Flange Flexible and Twistable Waveguide
Rx Interface	WR75 Flange
Frequency Range: Rx	10.95 - 12.75 Ghz
Tx	13.75 - 14.50 Ghz
Gain (Midband): Rx	41.5 dBi
Tx	43 dBi
VSWR Rx & Tx	1.3:1
Beamwidth: Rx	1.4° (-3 dB), 2.4° (-10 dB)
Tx	1.2° (-3 dB), 2.1° (-10 dB)
Radiation Pattern Compliance	FCC § 25.209
Antenna Noise Temperature	46K (20° El), 43K (30° El)
Cross Pol Isolation on Axis Rx & Tx (Minimum)	30 dB
Isolation port to port (Minimum): Rx	35 dB
Tx	80 dB
ENVIRONMENTAL	
Wind: Operational Deployed	50+ MPH
Survival Deployed	75 MPH
Survival Stowed	150 MPH
Temperature: Operational	-40°F to 127°F (-40°C to +50°C)
Survival	-58°F to 176°F (-50°C to +80°C)
Snow Load	8" deep (@8 lbs/cu. ft)
ELECTRICAL	
Controller Dimensions	2U 19" Rack Mountable
Power Supply: Input	100-250V 3A Max
Running Load	47-63Hz 300W Max
Output	48V 6.7A Max
Electrical Data Interface	G66 60' (18.25 m)
Transmit (Tx)	RG6 Compression F Connector
Receive (Rx)	RG6 Compression F Connector
Sensors	GPS
	Compass +/- 15°
	Tilt +/- .5°

MVSAT_VS-120MVSATKU_RM_REV002
Specifications are subject to change without notice

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