

1.2m Quick-Deploy Auto-Point Antenna



Your Trusted Source for Satellite Equipment



VS-120QDKU-AP

- Quick-Deploy, 4-piece Motorized Antenna
- Single-Button, Auto-Point Control System
- Inclined orbit tracking capable
- Integrated with major Network Platforms

GENERAL SPECIFICATIONS	
Reflector Type	4 piece segmented 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
Set-up Time	Less than 15 minutes
DIMENSIONS	
Stowed Dimensions	NA
Max Deployed Height	70"
Mount Rail Width	NA
Weight	See Case Dimensions
MECHANICAL	
Range Of Motion: Azimuth	342° (+/- 171°)
Elevation	12° to 93° Operational
Polarization	+/- 90°
Speed: Deploying Elevation	4.6° Per Second
Stowing Elevation	5.0° Per Second
Deploying Azimuth	0.4° Per Second
Time to Acquisition	< 2 Minutes (Typical)
Motors: Elevation	36V 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
CASE DIMENSIONS	
Reflector Case (Size/Weight)	28"L x 20.5"W x 28"H / 77.2 lbs
Feed Arm Case (Size/Weight)	54"L x 12"W x 13"H / 52.4 lbs
AZ/EL Case (Size/Weight)	35"L x 16"W x 21"H / 73.5 lbs
Tripod Case (Size/Weight)	39"L x 12"W x 11.5"H / 41.5 lbs

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	43.0 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° EI), 43K (30° EI)
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	30 MPH w/ballast or anchors
Survival Deployed	75 MPH EL at 90°
Survival Stowed	NA
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	NA
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	RG6 60' (18.25 m)
Transmit (Tx)	RG6 Compression F Connector
Receive (Rx)	RG6 Compression F Connector
Sensors	GPS
	Compass +/- 15°
	Tilt +/- .5°

MVSAT_VS-120QDKU-AP_REV002
Specifications are subject to change without notice

sales@vikingsatcom.com • www.vikingsatcom.com

T: 517.629.3000 • F: 517.629.2379 • 704 North Clark Street • Albion, MI