

# 1.8m Motorized Vehicle-Mount Antenna System



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Your Trusted Source for  
Satellite Equipment

- VSAT or Broadcast Configuration
- Integrated Auto Locate Controller with Manual Override
- Auto Locate and Peak Features along with Handheld Control Unit
- Low Profile and Space-Optimizing Stowed Configuration
- Designed for Boom Mounted Single Thread Integration Packages up to 35 lbs
- Affordable SNG Applications
- Intelsat / ITU Compliant
- C , X, and Ku Band Feeds

Electrical Specifications	2 Port Cross-Pol C Band		2 Port Cross-Pol C Band		2 Port X Band		2 Port Cross Pol-Ku Band	
	Linear Feed		Circular Feed		Circular		Linear	
	Rx	Tx	Rx	Tx	Rx	Tx	Rx	Tx
Frequency (GHz)	3.40 - 4.20	5.85 - 6.725	3.625 - 4.20	5.85 - 6.425	7.25 - 7.75	7.9 - 8.4	10.70 - 12.75	13.75 - 14.5
Gain (Midband, dBi)	35.3	39.3	35.4	39.5	41.3	42.0	45.3	46.6
Noise Temperature (°K) 10 deg El 20 deg El	41 36		41 36		60 56		55 50	
Axial Ratio			3.0 dB	2.3 dB	1.5 dB	1.5 dB		
Cross Pol (On Axis) in 1 dB BW	-30 dB -23 dB	-30 dB -23 dB	-15.3 dB -15.3 dB	-17.5 dB -17.5 dB	-21.3 dB -21.3 dB	-21.3 dB -21.3 dB	-30.0 dB -23.0 dB	-30.0 dB -23.0 dB
Sidelobe Compliance	IESS 207		IESS 207			Meets DSCS		Meets ITU 580
VSWR	1.50:1	1.30:1	1.50:1	1.30:1	1.30:1	1.30:1	1.50:1	1.30:1

Mechanical Specifications	
Reflector	1.8 meters (70.87 in) - SMC
Reflector Offset Angle	22.6°
Antenna Travel	
Azimuth	± 200°
Elevation	0 - 90° of reflector boresight
Polarization	± 90°
Antenna Drive Rate	
Azimuth	1.5°/sec
Elevation	1.5°/sec
Polarization	2°/sec
Antenna Stowed Dimensions	Length: 98.5" (2501mm) Width: 72" (1829 mm) Height: 18" (457 mm) [add 3 inches to height (76mm) for optional mount frame]
Weight	275 lb (125 kg) - without integration
Integration	
Feedboom Mounted	35 lbs (15.9 kg)
Positioner Mounted	250 lbs (113 kg)

Environmental Specifications	
Temperature	
Operational	-20 to 60°C (-4 to 140°F)
Survival	-40 to 70°C (-40 to 158°F)
Pointing Loss (operational winds)	2 dB (Ku-band Rx)
Winds	
Operational	35 mph Gusting to 50 mph (56 kph G 81 kph)
Survival	70 mph (112 kph) any position 90 mph (145 kph) stowed

MVSAT\_VS-180MVSAT\_VSAT-SNG\_MOT\_REV002  
Specifications are subject to change without notice

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