

# 1256 NOVUS VSAT & SNG

## 1.2 Meter Motorized Vehicle-Mount Antenna



The Sat-Lite Technologies Model 1256 vehicle-mount antenna is a high performance design for VSAT or SNG applications in a compact design. Key features include a low stow height configuration and compact pedestal minimizing vehicle constraints. Also included is an integrated auto-locate controller with manual override. The integrated control system includes an option for a programmable digital video receiver that can be used to positively identify the satellite and automatically peak the antenna.

The antenna features a precision tooled long focal length composite reflector designed to provide exceptional performance in a lightweight package. Up to 30 lbs of payload can be mounted on the feedboom for multiple integration packages and options. Options exist for heavier payloads as well. The antenna is designed to meet Ku Band RF performance specifications for Intelsat, Eutelsat, and FCC requirements (using the proper feed).

- **Includes Sat-Lite Cirrus ACU for efficient auto acquisition using DVB-S2, GPS & Compass**
- **DVB Receiver Interface for Positive Satellite ID**
- **High Performance Composite Reflector**
- **Handcrank for all 3 Axes Included**
- **15 1/4" Stow Height and Space-Optimizing Stowed Configuration**
- **Designed for Boom Mounted Single Thread Integration Packages up to 30 lbs**
- **Intelsat / FCC / Eutelsat Compliance Options using appropriate feeds**



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<i>Electrical Specifications</i>	2 Port Cross Pol Ku Band Linear Feed		2 Port Cross Pol Ku Band Mode Matched Linear Feed	
	Rx	Tx	Rx	Tx
Frequency (GHz)	10.70 - 12.75	13.75 - 14.5	10.95 - 12.75	13.75 - 14.5
Gain (Midband, dBi)	42.2	43.2	42.2	43.2
Noise Temperature (K)				
	10 deg El	55	55	
	20 deg El	46	46	
Axial Ratio				
Cross Pol				
	On Axis	-35 dB	-35 dB	-35 dB
	in 1 dB contour	-30 dB	-30 dB	-25 dB
Sidelobe Compliances		Meets ITU 580 / FCC / Intelsat		Meets ITU 580 / FCC Intelsat / Eutelsat
VSWR	1.35:1	1.30:1	1.45:1	1.30:1
Isolation				
	Tx/Rx	-85 dB	0 dBm input	-85 dB
	Rx/Tx	0 dBm input	-30 dB	0 dBm input
			0 dBm input	-35 dB

<i>Mechanical / Environmental Specifications</i>	
Reflector	1.2 meters (48 in) Carbon Composite
Reflector Configuration	Parabolic Single Offset, 0.8 F/D
Antenna Travel	
Azimuth	± 200° continuous
Elevation	0 - 90° of reflector bore sight
Polarization	± 90°
Antenna Drive Rate	
Azimuth	4.0°/sec
Elevation	3.0°/sec
Polarization	3.0°/sec
Temperature	
Operational	-30 to 60°C (-22 - 140°F)
Survival	-40 to 70°C (-40 - 158°F)
Winds <sup>1</sup>	
Operational	40 mph (64 kph)
Survival	68 mph (110 kph) deployed any position
Antenna Stow Height (With Optional Mount Frame)	15 1/4 in (387 mm) 17 9/16 in (446 mm)
Weight	145 lb (65.9 kg) - with Ku Feed / Controller
Integration <sup>2</sup>	
Feedboom Mounted <sup>3</sup>	30 lbs
Rain	
Operational	4 in/h (10 cm/h)
Survival	6 in/h (15 cm/h)
Relative Humidity	0 - 100%
Solar Radiation	360 btu/h/ft <sup>2</sup> (1000 Kcal/h/m <sup>2</sup> )
Radial Ice (survival)	1 in (25.4 mm)
Corrosive Atmosphere	As encountered in coastal and/or industrial areas

1 Dependent on vehicle capabilities

2 Dependent on mounting position relative to elevation axis

3 Std weight shown, consult factory for special requirements

Note: Specifications subject to change without notice