

# 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 or interface directly to a modem to verify 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 25 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).

- **High Performance VSAT Configuration**
- **Integrated Auto Locate Controller with Manual Override**
- **DVB Receiver or Modem Interface for Positive Satellite ID**
- **1.2 M Composite Reflector**
- **Handcranks Included**
- **14 ½" Stow Height and Space-Optimizing Stowed Configuration**
- **Designed for Boom Mounted Single Thread Integration Packages up to 25 lbs**
- **Affordable SNG Applications**
- **Intelsat / FCC / Eutelsat Compliance Options**



<i>Electrical Specifications</i>	2 Port Cross Pol Ku Band Linear / VSAT Feed		2 Port Cross Pol Ku Band Linear / SNG Feed		2 Port Cross Pol Ku Band Mode Matched Linear / SNG Feed	
	Rx	Tx	Rx	Tx	Rx	Tx
Frequency (GHz)	10.70 - 12.75	13.75 - 14.5	10.70 - 12.75	13.75 - 14.5	10.95 - 12.75	13.75 - 14.5
Gain (Midband, dBi)	41.7	43.2	41.7	43.3	41.6	43.2
Noise Temperature (°K)						
	10 deg El	45	43		45	
	20 deg El	31	31		34	
Axial Ratio						
Cross Pol						
	On Axis	-30 dB	-30 dB	-35 dB	-35 dB	-35 dB
	in 1 dB contour	-27 dB	-27 dB	-30 dB	-30 dB	-25 dB
Sidelobe Compliances		Meets ITU 580 / FCC / Intelsat	Meets ITU 580 / FCC / Intelsat	Meets ITU 580 / FCC / Intelsat	Meets ITU 580 / FCC / Intelsat	Meets ITU 580 / FCC / Intelsat
VSWR	1.50:1	1.30:1	1.30:1	1.25:1	1.45:1	1.30:1
Isolation						
Tx/Rx	-110 dB	0 dBm input	-85 dB	0 dBm input	-85 dB	0 dBm input
Rx/Tx	0 dBm input	-35 dB	0 dBm input	-35 dB	0 dBm input	-35 dB

<i>Mechanical / Environmental Specifications</i>	
Reflector	1.2 meters (50 in) Composite Reinforced Polymer
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	-17 to 50°C (0 - 122°F)
Survival	-30 to 70°C (-22 - 158°F) 850-0027-A
Winds <sup>1</sup>	
Operational	40 mph (64 kph)
Survival	65 mph (104 kph) deployed any position
Antenna Stow Height	14 1/2 in (370 mm)
Antenna Length x Width	59 11/16 in (1517 mm) x 50 3/16 in (1274 mm)
Weight	145 lb (65.9 kg) - with Ku Feed / Controller
Integration <sup>2</sup>	
Feedboom Mounted <sup>3</sup>	25 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

850-0032-A

<sup>1</sup> Dependent on vehicle capabilities

<sup>2</sup> Dependent on mounting position relative to elevation axis

<sup>3</sup> Std weight shown, consult factory for special requirements

Note: Specifications subject to change without notice