

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***



| <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 |
| Gain (Midband, dBi) | 41.7 | 43.3 | 41.6 | 43.2 |
| Noise Temperature (°K) | | | | |
| | 10 deg El | 55 | 57 | |
| | 20 deg El | 47 | 49 | |
| Axial Ratio | | | | |
| Cross Pol | | | | |
| | On Axis | -35 dB | -35 dB | -35 dB |
| | in 1 dB contour | -30 dB | -30 dB | -35 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 | 0 dBm input |
| Rx/Tx | 0 dBm input | -30 dB | 0 dBm input | -35 dB |

| <i>Mechanical / Environmental Specifications</i> | |
|--|---|
| Reflector | 1.2 meters (48 in) Glass Reinforced Polyester |
| 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 ¹ | |
| Operational | 40 mph (64 kph) |
| Survival | 65 mph (104 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 ² | |
| Feedboom Mounted ³ | 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 ² (1000 Kcal/h/m ²) |
| 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

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