

iNmotion

PRELIMINARY

iNetVu[®]

by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS



SOTM Ka Terminal

Features

- Ka SOTM Antenna Terminal - Operates while vehicle is moving
- Automatic satellite acquisition and tracking
- Operates in emerging Ka-band services worldwide
- Provides affordable broadband connectivity via Satellite to mobile ground platforms (Land mobile)
- Low Profile Antenna < 33 cm in height with Look angles 10°-90°
- Compliant with FCC and ITU for Mobile VSAT (FCC 25.222, 25.138 VMES)
- Affordable, Rugged and Highly Reliable
- Operational wind speed of 180 km/h or better
- Compliant with ViaSat HTS and similar Ka-band networks

Application Versatility

The iNmotion Ka SOTM Antenna provides an "always-on" broadband connectivity directly to any vehicle. Ideally suited for SNG, First Responders, Disaster Management, Trains, Public Transportation, Oil & Gas Exploration, Mining, Construction, Mobile Offices and Emergency Services.



1-866-916-2226
www.nj-albert.com

Specifications are subject to change (Draft)

Apr 2017

TECHNICAL SPECIFICATIONS

Mechanical

| | |
|----------------------|--------------------------------------|
| Platform Size | 1.3m diameter |
| Platform Geometry | Elevation over Azimuth |
| Azimuth Travel | 0° to 360° Continuous |
| Elevation Look Angle | 10° to 90° |
| Polarization | Dual Circular (Electronic Switching) |
| Elevation Speed | 100°/sec |
| Azimuth Speed | 100°/sec |
| Acceleration Max. | 200°/sec ² |
| Acquisition Time | < 60 sec (Initial) |
| Re-Acquisition Time | < 20 sec (Depending on Modem) |

Environmental

| | |
|---------------|--|
| Wind loading | |
| Operational | 180 km/h (112 mph) |
| Survival | 250 km/h (156 mph) |
| Temperature | |
| Operational | -30° to 60° C (-22° to 140° F) |
| Survival | -40° to 70° C (-40° to 158° F) |
| Humidity | 0-100% (condensing) |
| IP Protection | IP66 on Connectors, IP65 on Electronic Parts |
| Vibration | per MIL-STD-810F, Truck/Trailer/Tracked |
| Shock | per IEC 60068-2-27 |

Electrical

| | |
|-----------------|----------------------------------|
| Rx & Tx Cables | 2 RG6 Cables - 10 m (33 ft) each |
| Control Cables | 10 m (33 ft) |
| Voltage / Power | 24V DC or 120 VAC |

Physical

| | | |
|--------------------|--------------------------------|-------------------|
| Antenna Dimensions | L: 130 cm (51.2") | W: 130 cm (51.2") |
| | H: 33 cm (13") | |
| Weight | < 40 kg (88 lbs) | |
| Mounting | Directly on Roof or Roof Racks | |

Ka (Circular)

| | | |
|-------------------------------|--|-----------------|
| Transmit Power | 3 W ⁽¹⁾ Tranceiver | |
| Feed | 2 Port XPol | |
| | Receive | Transmit |
| Frequency (GHz) | 18.30 - 20.20 | 28.10 - 30.00 |
| G/T | > 13.5 dB/K at 45° Elev. | |
| EIRP Spectral Density Pattern | Compliant with FCC 25.138, 25.222, 25.226, 25.227 for VMES | |
| EIRP | 43 dB at 1dB Compression & 45° Elev. | |

Shipping Weights & Dimensions*

Platform Crate : 138cm x138cm x 52cm (54.3" x 54.3" x 20.5"); 90 kg (198.4 lbs)

*The shipping weights/dims can vary for particular shipments depending on actual system configuration, quantity, packaging materials and special requirements



Notes:

⁽¹⁾ Configurable for higher watt radios