

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.



Authorized Distributor: Servsat Communications, Inc. E-mail: sales@servsat.com . www.servsat.com

Specifications are subject to change (Draft)

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iNmotion PRELIMINARY

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1.3m diameter

10° to 90°

100°/sec

100°/sec

200°/sec²

< 60 sec (Initial)

180 km/h (112 mph)

250 km/h (156 mph)

Elevation over Azimuth

0° to 360° Continuous

Dual Circular (Electronic Switching)

< 20 sec (Depending on Modem)

Antenna Dimensions

Weight Mounting

Physical

L: 130 cm (51.2") W: 130 cm (51.2") H: 33 cm (13") < 40 kg (88 lbs) Directly on Roof or Roof Racks

Ka (Circular)

Transmit Power Feed Receive Frequency (GHz) G/T EIRP Spectral Density Pattern EIRP

3 W⁽¹⁾ Tranceiver 2 Port XPol Transmit 18.30 - 20.20 28.10 - 30.00 > 13.5 dB/K at 45° Elev. Compliant with FCC 25.138, 25.222, 25.226, 25.227 for VMES 43 dB at 1dB Compression & 45° Elev.

-30° to 60° C (-22° to 140° F) -40° to 70° C (-40° to 158° F) 0-100% (condensing) IP66 on Connectors, IP65 on Electronic Parts per MIL-STD-810F, Truck/Trailer/Tracked per IEC 60068-2-27

Shipping Weights & Dimensions*

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

ciNetVu°

by C-COM Satellite Systems Inc.

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

Electrical

Mechanical

Platform Size

Azimuth Travel

Elevation Speed

Azimuth Speed

Acceleration Max.

Acquisition Time

Environmental

Wind loading

Survival

Survival

IP Protection

Humidity

Vibration

Shock

Temperature Operational

Operational

Re-Acquisition Time

Polarization

Platform Geometry

Elevation Look Angle

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



Notes:

⁽¹⁾ Configurable for higher watt radios



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