

inMotion-Ku

PRELIMINARY

iNetVu[®]

by C-COM Satellite Systems Inc.

TECHNICAL SPECIFICATIONS



SOTM Ku Terminal

Features

- Ku SOTM Antenna Terminal - Operates while vehicle is moving
- Automatic satellite acquisition and tracking
- Operates in emerging Ku-band services worldwide
- Provides affordable broadband connectivity via Satellite to mobile ground platforms (Land mobile)
- Low Profile Antenna < 30 cm in height with Look angles 10°-90°
- Compliant with FCC and ITU for Mobile VSAT (FCC 25.222, 25.134 VMES)
- Affordable, Rugged and Highly Reliable
- Operational wind speed up to 350 km/h
- BUC and LNB using Off-The-Shelf components

Application Versatility

The inMotion Ku 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.

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SATELLITE SYSTEMS INC.

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Mechanical

Platform Size	1.3 m diameter
Platform Geometry	Elevation over Azimuth
Azimuth Travel	0° to 360° Continuous
Elevation Look Angle	10° to 90°
Polarization	Linear Orthogonal
Elevation Speed	80°/sec
Azimuth Speed	80°/sec
Acceleration Max.	200°/sec ²
Acquisition Time	< 60 sec (Initial)
Re-Acquisition Time	< 6 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

Physical

Antenna Dimensions	L: 130 cm (51.2") W: 130 cm (51.2")
	H: 30 cm (12")
Weight	< 54 kg (119 lbs)
Mounting	Directly on Roof or Roof Racks

Ku (Linear)

Transmit Power	Use BUC & LNB from COTS	
Feed	2 Port XPol	
	Receive	Transmit
Frequency (GHz)	10.95 - 12.75	13.75 - 14.50
Cross-Polarization (within 1dB BW)	> 25 dB	> 25 dB
G/T	> 14 dB/K at 30° Elev.	
EIRP Spectral Density Pattern	Compliant with FCC 25.134, 25.222, 25.226, 25.227 for VMES	
EIRP	43.5 dBW (with 10 dBW BUC)	

Shipping Weights & Dimensions*

TBD



Request A Quote

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