

move & SAT

LOW PROFILE GROUND MOBILE TERMINAL

Two way vehicular Satcom antenna for ground mobile broadband communications

SPECIFICATIONS

>> Electrical

| | |
|-----------------------|---------------------------|
| Frequency Band | |
| Receive | 10.95 - 12.75 GHz |
| Transmit | 13.75 - 14.5 GHz |
| Polarization | Linear |
| Gain | |
| Receive | 31 dBi @ 12.25 GHz |
| Transmit | 31.75 dBi @ 14.25 GHz |
| Isolation | 100 dB |
| Tx Radiation Patterns | FCC25.226 |
| Uplink EIRP | 47 dBW (internal BUC 50W) |
| Antenna G/T | 10 dB/K @30° elevation |
| Cross Polarization | >25 dB |

>> Environmental

| | |
|-------------------------|----------------------------------|
| Operational temperature | -25°C to +55°C (-32°F to +131°F) |
| Relative humidity | Up to 95% |

>> Coverage & Tracking

| | |
|--------------------------------------|---|
| Elevations angle range | 0° - 90° |
| Azimuth angle range | 360° unlimited |
| Polarization angle range | +/- 180° |
| Track speed | 75°/s, 180°/s ² |
| Initial satellite acquisition & lock | <10 sec (typical) after initializing, fully automatic with integrated GPS |
| Satellite re-acquisition | <2 sec |

>> Physical & Interfaces

| | |
|--------------------|--|
| Antenna dimensions | 105 L x 93 W x 24 H cm (41 x 37 x 10 in) |
| Antenna weight | <50 Kg (<110 lb), BUC included |
| RF (L-band) | 50 Ω, N Connector (SMA or TNC optional) |
| M&C | Ethernet connector (RJ45) |
| Power supply | 24 VDC (12V/48V DC & 220 VAC optional) |
| Consumption | ~200 W, BUC included |

► **MOVE&SAT** is a cost effective Ku band two way vehicular Satcom antenna for ground mobile broadband connectivity supporting On-The-Move high data rates. Easy & quick installation and operation.

Light weight and compact size integrating a high-efficiency wide band passive radiation structure with electronic polarization, full RF-transceiver (including BUC GaN 50W) and mechanical pointing & tracking system, all in a low profile (H<24cm).

Satellite Communications On the Move for mobile emergency communications, police, homeland security, governmental organizations, search and rescue teams, news gathering, private security, and many other on the move real-time video, voice and data applications.

Developed by TTI

