

# Multi-Purpose SATCOM Terminals for Land Mobility

Seamless Connectivity On-the-Move  
Built for the mission critical of Mobile  
Operations

Orbit's MPT-30 (30cm/12") and MPT-46 (46cm/18") systems are revolutionizing communications on-the-move for various land platforms. These compact yet powerful SATCOM terminals provide high-speed, continuous connectivity for mobile platforms, ensuring mission-critical broadband communication in the most challenging terrains while maintaining high resilience of the terminal.

The Low-Profile Communications On-The-Move (COTM) Antenna System is designed to deliver continuous high bandwidth communications for voice, video and data in a highly dynamic environment. The low-profile design further reduces overall size, weight and power (SWaP) requirements to deliver reliable mobile SATCOM in the smallest package possible.

Orbit Communication Systems is a global leader in mobile SATCOM communications, satellite tracking, , ground-station technology, and innovative solutions for the new space era. Our state-of-the-art systems are utilized by satellite operators, major defense forces, space agencies, and emerging New Space companies.

## Key Features

- **High-Speed Data Transmission**  
Seamless live video streaming and high-volume data transmission
- **Versatile Compatibility**
  - Supports a wide range of satellite orbits: LEO, MEO, GEO, and HEO
  - Compatible with Ku and Ka frequency bands
  - Designed for various mobile platforms
- **Optimized Design**
  - Compact Size, Low Weight, and Power (SWaP)
  - All-In-One Solution option
  - Robust performance in harsh environments
- **Advanced Tracking Capabilities**
  - Ideal for Intelligence, Surveillance, and Reconnaissance (ISR) applications
  - Ensures accurate tracking and reliable connectivity
- **Compliance and Reliability**  
Adheres to MIL-STD-188-164C, MIL-STD-810G, and MIL-STD-461G , and international satellite regulations

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## Parabolic Solution

30cm and 46cm antenna terminals supporting Ku or Ka bands.

## MPT System Specifications

	MPT30Ku	MPT46Ku	MPT30Ka	MPT46Ka
<b>Dish Size</b>	30cm / 12"	46cm / 18"	30cm / 12"	46cm / 18"
<b>Frequency Range</b>	Tx: 13.75-14.5 GHz Rx: 10.95-12.75 GHz		Tx: 29.0-31.0 GHz Rx: 19.2-21.2 GHz	
<b>Polarization</b>	Linear V/H or H/V electrically selectable		Circular RH/RH, RH/LH, LH/RH or LH/LH electrically selectable	
<b>G/T (Typical, at mid-range, at 30° elevation, without radome) at ground level</b>	9.0 dB/°K	12.0 dB/°K	10.0 dB/°K	13.7 dB/°K
<b>EIRP (without radome), Psat</b>	45.8 dBW	50.4 dBW	52.0 dBW	56.7 dBW
<b>Pedestal Type</b>	Elevation Over Azimuth			

Note:  
Orbit offers a variety of frequency-band configurations (Ka-band, ITU range) and turnkey solutions (including modem, INS/GPS, RF tracking, ground station, etc.).

