



STANDARD
MIL-STD
188-164A

STANDARD
MIL-STD
810

Size:

0.65m

PMAR-65Ka

High-Speed Mobile Terminal

The PMAR-65Ka is a rugged, MIL-STD compliant terminal engineered for both military and commercial use in extreme environments. Its advanced antenna feed ensures seamless operation across GEO, MEO, LEO, and HEO orbits, providing a resilient and cost-effective communication.

Superior Precision

Utilizing a proprietary closed-loop beacon processing system, the PMAR-65Ka delivers near-zero pointing error for maximum link stability. Its 4 axes mount eliminates the keyhole effect, ensuring uninterrupted connectivity and fluid movement even when the satellite is directly overhead or signal conditions are weak.

Operational Efficiency

Downtime is minimized through an innovative gyro-lock mode that enables instantaneous re-connection after obstructions. Designed for longevity, the unit features sealed brushless motors and a balanced inertial system to reduce wear, lowering maintenance needs and power consumption to just a few watts above BUC requirements.

Key Features

- Available in X, Ku and Ka Band
- GEO, MEO, LEO, HEO Compatible
- Optimized Ka-Band Throughput
- High-Precision Stabilization
- Integrated MEMS Sensors Technology
- RF Path Optimization
- Consistently high data rate
- Supports OpenAMIP
- Rapid Acquisition
- Optional 4G/ 5G/LTE supported modem for load balancing and bonding solutions





GENERAL SPECIFICATIONS

Reflector Diameter
Stabilization Platform
Tracking Mode
Tracking Accuracy
Modem Interface
Modem Support
Power Input

PMAR-65Ka

0.65m
3-axis (plus Auto Skew)
Carrier Tracking, SNR Direct Tracking
0.2° RMS
Ethernet, OpenAMIP
iDirect, Newtec, Gilat, THISS, Hughes
85V~264V AC / DC, 18-36V

GENERAL SPECIFICATIONS

Frequency (GHz) Tx
Frequency (GHz) Rx
Gain (dBi) Tx
Gain (dBi) Rx
EIRP (dBW)
G/T (dB/K)
Polarization

KA-BAND

29 ~ 30
17.7 ~ 20.2
44.0 @ 29.25GHz
40.2 @ 19.45GHz
48.8 (w 4W BUC)
14.7
Circular

MECHANICAL/ POWER SPEC.

Motion Range
Skew Control
Supported Orbit
Sensors
Dimensions (DxH)
Weight

Azimuth

Elevation

Roll

Unlimited	-10° ~ 110°	±30°
Automatic, with Pre-set Offset Supported		
GEO, MEO, LEO, HEO		
IMU		
83cm x 79cm		
52kg		

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational
Temperature Range Survival
Wind Speed Operational
Wind Speed Survival
Protection Grade

PMAR-65Ka

-20°C ~ 55°C
-55 ~ +70°C
80 kn
110 kn
IP65

Specifications are subject to change.