



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
- High Speed Navigation Option (for 30knots and above)





GENERAL SPECIFICATIONS

Reflector Diameter	0.65m
Stabilization Platform	3-axis (plus Auto Skew)
Tracking Mode	Carrier Tracking, SNR Direct Tracking
Tracking Accuracy	0.2° RMS
Modem Interface	Ethernet, OpenAMIP
Modem Support	iDirect, Newtec, Gilat, THISS, Hughes
Power Input	85V~264V AC / DC, 18-36V

RF CHARACTERISTICS

Frequency (GHz) Tx	29 ~ 30
Frequency (GHz) Rx	17.7 ~ 20.2
Gain (dBi) Tx	44.0 @ 29.25GHz
Gain (dBi) Rx	40.2 @ 19.45GHz
EIRP (dBW)	48.8 (w 4W BUC)
G/T (dB/K)	14.7
Polarization	Circular

MECHANICAL/ POWER SPEC.

Motion Range	Unlimited
Skew Control	Automatic, with Pre-set Offset Supported
Supported Orbit	GEO, MEO, LEO, HEO
Sensors	IMU
Dimensions (DxH)	83cm x 79cm
Weight	52kg

Azimuth

Elevation

Roll

-10° ~ 110°	±30°

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational	-20°C ~ 55°C
Temperature Range Survival	-55 ~ +70°C
Wind Speed Operational	80 kn
Wind Speed Survival	110 kn
Protection Grade	IP65

PMAR-65Ka

Specifications are subject to change.

