



PMAR-105B

High-Capacity Terminal

The PMAR-105B is a 1.05m stabilized antenna in Ku and Ka-band configurations. Designed for high-capacity data needs, it provides a stable connection for commercial vessels, offshore rigs, and naval vessels. It supports bandwidth-intensive tasks.

Technical Tracking and Integration

Featuring 3-axis stabilization and an internal inertial module, the PMAR-105B maintains precise satellite alignment during heavy seas. The "Modem-in-Radome" design minimizes RF signal loss to maximize throughput. With OpenAMIP support, it ensures compatibility with global satellite providers for seamless roaming across international waters.

Operational Scope

The PMAR-105B utilizes a weather-hardened GFRP radome to sustain performance against corrosive salt-spray and extreme wind loads. Its unified single-cable architecture streamlines integration by merging power and signal into a simplified interface. This terminal is engineered for maritime security, hydrographic surveys, and offshore energy, this terminal serves as a robust communication hub.



STANDARD
MIL-STD
188-164A

STANDARD
MIL-STD
810

Size:

1.05m

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





TECHNICAL SPECIFICATIONS / PMAR-105B

Scan the QR code for more information.

CATIONS

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

PMAR-105B

1.05m
3-axis (plus Auto Skew)
Carrier Tracking, SNR Direct Tracking
0.2° RMS
Ethernet, OpenAMIP
iDirect, Newtec, Gilat, THISS, Hughes, Comtech
85V~264V AC / DC , 18~36V
6W, 8W, 16W, 40W

Frequency (GHz) Tx
Frequency (GHz) Rx
Gain (dBi) Tx
Gain (dBi) Rx
EIRP
G/T (dB/K)
Polarization
Cross-Pol Isolation (dB)

Ku-Band

13.75 ~ 14.5
10.7 ~ 12.75
41.3 @ 14.25GHz
39.8 @ 11.75GHz
49.5 (w 8W BUC)
19.2
Linear
> 33

Ka-Band

29 ~ 30
17.7 ~ 20.2
48.6 @ 29.25GHz
44.6 @ 19.45GHz
53.4 (w 4W BUC)
19
Circular

MECHANICAL/ POWER SPEC.

Motion Range
Skew Control
Supported Orbit
INU & Gyros
Dimensions (DxH)
Weight

Azimuth

Unlimited
Automatic, with Pre-set Offset Supported
GEO, MEO, LEO, HEO
Embedded
138.5cm x 135cm
120kg

Elevation

-10° ~ 110°

Roll

±30°

ENVIRONMENTAL SPECIFICATIONS

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

PMAR-105B

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

Specifications are subject to change.

