



Size: 1.0m

PMAR-100

Unmatched Precision for Demanding Seas

The PMAR-100 represents the pinnacle of maritime antenna engineering, designed for critical applications where connection cannot fail. Its sophisticated 3-axis stabilized platform, integrated with high-precision sensors and GPS, performs continuous real-time adjustments.

Advanced Tracking & Seamless Operation

Utilizing an innovative conical scan algorithm, the PMAR-100 achieves an exceptional pointing accuracy of 0.2° RMS for both Ku and Ka band operations. It features rapid multi-satellite switching capability, enabling seamless transitions between targets.

Engineered for Elite Performance

This system is built for missions that demand absolute reliability: naval operations, offshore energy, seismic surveying, and high-end commercial shipping. The PMAR-100 delivers the continuous, high-availability connectivity required for real-time data, command, and control, making it the definitive solution for global maritime operations.

Key Features

- X, Ku and Ka bands available
- Supports LEO, MEO, GEO tracking
- Electronically switchable between cross-polarized (X-pol) and co-polarized (Co-pol) operation
- Rapid Blockage Recovery Time
- 3-Axes Stabilisation System
- Broad modem compatibility
- Easy installation and retrofit
- Optional 4G/ 5G/LTE supported modem for load balancing and bonding solutions



GENERAL SPECIFICATIONS

Reflector Diameter	1.0m
Stabilization Platform	3-Axes (Plus Auto Skew)
Tracking Mode	Carrier Tracking, SNR Direct Tracking
Modem Interface	Ethernet, OpenAMIP
Modem Support	iDirect, Newtec, Gilat, Datum, Comtech, THISS etc.
Power Input	85V-264V AC

PMAR-100

RF CHARACTERISTIC

	Ku-Band	Ka-Band
Frequency (GHz) Tx	13.75 - 14.50	27.50 - 31.00
Frequency (GHz) Rx	10.70 - 12.75	17.70 - 20.20
Gain (dBi) Tx	41.50	47.60
Gain (dBi) Rx	40.20	44.30
Tx / Rx Isolation (dB)	85	85
Rx / Tx Isolation (dB)	30	30
Cross Polarization (dB)	35	1.5 (axial ratio)
VSWR Tx	1.30:1	1.30:1
VSWR Rx	1.50:1	1.50:1
Antenna Pattern Compliancy	ITU-R S.580-6 and ITU-R S.465-6	
Pointing Accuracy	<0.2°	

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Cross-Level Range	Skew
Motion Range	∞	-20°~ +110°	± 45°	-120°~ +120°
Motion Support Roll	± 20° @8~12 sec.			
Motion Support Pitch	± 10° @6~12 sec.			
Motion Support Yaw	±8°@15~20sec			
Dimensions	1385mm X 1350mm			
Weight	125 Kg			

ENVIRONMENTAL SPECIFICATIONS

	PMAR-100
Temperature Range Operational	-30~+55°C
Temperature Range Survival	-55~ +85°C
Wind Speed Operational	110 Knot
Wind Speed Survival	150 Knot
Protection Grade	IP65
Humidity	0 to 100% @ 40°C

Specifications are subject to change.

