



## PMAR-35

As a leading antenna manufacturer, we are proud to unveil our latest innovation in maritime communication technology; PMAR-35. This new addition to our PMAR series is designed specifically for the demanding maritime environment, offering unparalleled performance and reliability.

The PMAR-35 is engineered with cutting-edge technology to ensure seamless connectivity even in the most challenging sea conditions. With its compact design and advanced features, this maritime satellite antenna delivers high data rates and robust communication across a wide range of applications, from commercial shipping to naval operations.

Whether you're navigating rough seas or cruising in calm waters, the PMAR-35 is built to keep you connected. Its dual-band capability supports both Ku and Ka bands, providing flexible operation to meet your communication needs. With the PMAR-35, you can trust in continuous, high-quality satellite communication wherever your journey takes you.

## Key Features

- Ku and Ka Band options are available
- 3 Port options in Ku Band is available
- 3-Axes Stabilization and 4-axes tracking system
- LEO/MEO/GEO Tracking is supported
- Optional 4G / 5G / LTE supported modem for load balancing and bonding solutions
- Low Latency and High Precision Tracking
- Quick and precise automatic satellite acquisition
- Easy integration on various maritime vessels
- High Data Rate Transmission



#### GENERAL SPECIFICATIONS

Reflector Diameter	0.35m
Stabilization Platform	3-Axis (Plus Auto Skew)
Tracking Mode	Carrier Tracking, SNR Direct Tracking
Modem Interface	Ethernet, OpenAMIP
Modem Support	iDirect, Newtec, Gilat, Datum, Comtech, etc.
Power Input	DC 18-60V

#### RF CHARACTERISTICS

		Ku-Band	Ka-Band
Frequency (GHz)	Tx	13.75 - 14.50	27.40 - 31.00
	Rx	10.70 - 12.75	17.70 - 21.20
Antenna Gain ( $\pm 0.2$ dBi)	Tx	32.40 @ 14.25 GHz	38.90 @ 29.00 GHz
	Rx	31.20 @ 11.70 GHz	35.40 @ 19.00 GHz
Tx-Rx isolation (dB)		85	85
RX-TX isolation (dB)		30	30
Cross Polar Isolation		>35 dB within 1 dB beamwidth	
Polarization		2 Port Linear (3 Port Optional)	Circular
Satellite Operator Compliancy		Compliant with most of satellite operator requirements	
VSWR	Tx	1.50:1	1.50:1
	Rx	1.40:1	1.40:1
1st Side Lobe (dB)		$\leq -16$	$\leq -16$
Pointing Accuracy		$\leq 0.2^\circ$ (R.M.S)	
Initial Acquisition Time		$\leq 2$ min	
Blockage Recovery Time		$\leq 5$ s (blockage 20min)	

#### MECHANICAL / POWER SPECIFICATIONS

	Azimuth	Elevation	Roll
Antenna Speed	90°/S	90°/S	90°/S
Antenna Travels	360° continuous	-20°~+120°	$\pm 35^\circ$
Acceleration	200°/S <sup>2</sup>	200°/S <sup>2</sup>	200°/S <sup>2</sup>
Radom Size	D: 432mm H: 398mm W: 4.5Kg		
Weight	$\leq 6.5$ Kg with 16W Transceiver (11Kg with radom)		
	$\leq 7.5$ Kg with 16W Transceiver and IQ200 Modem (12Kg with radom)		

#### ENVIRONMENTAL SPECIFICATION

Operation Temperature	-30 ~ +55°C
Survival Temperature	-55 ~ +85°C
Protection	IP67
Operational Wind Load	80 Knot
Survival Wind Load	110 Knot
Humidity	0 to 100%

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