PALS® | Communications & Technology

Connect on Board!

STANDARD MIL-STD 810 | STANDARD MIL-STD 461 | STANDARD MIL-STD 188-164A

Size: 0.35m

PMAR-35

Compact, Rugged Maritime Connectivity

As a leading antenna manufacturer, we proudly unveil the PMAR-35, our latest innovation for demanding maritime environments. This compact, dual-band antenna delivers reliable, high-quality satellite communication for vessels of all sizes, ensuring you stay connected from coastal waters to the open ocean.

Engineered for Reliability

Built with robust, weather-resistant technology, the PMAR-35 maintains seamless connectivity in challenging sea conditions. Its efficient stabilization system provides stable satellite tracking, delivering consistent data rates for essential communications, navigation, and operational updates.

Proven Versatility & Performance

Supporting both Ku and Ka bands, the PMAR-35 offers operational flexibility to meet diverse needs. It is the ideal, cost-effective solution for commercial shipping, fishing fleets, workboats, and recreational craft, providing trusted connectivity wherever your journey takes you.

Key Features

- Ku, Ka Band available
- 3-Axes Stabilization System
- 4-Axes Tracking System
- High Dynamic Response by Direct Drive Technology
- Wear-Free Architecture & Minimal Maintenance
- Supports LEO/MEO/GEO Tracking
- Near-silent performance and vibration-free operation
- Optional 4G/5G/LTE supported modem for load balancing and bonding solutions
- Quick and precise automatic satellite acquisition
- High Data Rate Transmission
- Optional Military Ka-Band Feed

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TECHNICAL SPECIFICATIONS / PMAR-35

Scan the QR code for more information.

GENERAL SPECIFICATIONS	PMAR-35
Reflector Diameter	0.35m
Stabilization Platform	3-Axis for stability, 4-Axis for tracking
Modem Interface	Ethernet, OpenAMIP
Modem Support	iDirect, Newtec, Gilat, Datum, Comtech, etc.
Power Input	DC 18-36V
Power Consumption	≤250W

RF CHARACTERISTIC	Ku-Band	Ka-Band
Frequency (GHz) Tx	13.75~14.50	27.50~31.00 GHz
Frequency (GHz) Rx	10.70~12.75	17.70~21.20 GHz
Antenna Gain @ Midband (±0.2 dBi)Tx	32.40	37.50
Antenna Gain @ Midband (±0.2 dBi)Rx	31.20	34.00
G/T (dB/K)	9	10
Antenna Pattern Compliance	Compliant with MIL-STD-188-164C, ITU-R S.580-6 & ITU-R S.465-6	
Pointing Accuracy	≤0.2° (R.M.S)	≤0.2° (R.M.S)
Initial Acquisition Time	≤2min	≤2min
Signal Tracking Accuracy	<0.2° (R.M.S)	<0.2° (R.M.S)
Blockage recovery time	≤5s (blockage 20min)	≤5s (blockage 20min)

MECHANICAL SPECIFICATIONS	Azimuth	Elevation	Roll	Polarization
Motion Range	360° continuous	-15° - +110°	± 30°	± 90°(Ku)
Antenna Speed	200°/s	200°/s	200°/s	
Antenna Acceleration	500°/s²	500°/s²	500°/s²	

ENVIRONMENTAL SPECIFICATIONS	PMAR-35
Temperature Range Operational	-20 ~ +60°C
Temperature Range Survival	-30 ~ +70°C
Protection	IP65
Wind Speed Operational	80 Knot
Wind Speed Survival	110 Knot
Humidity	0 to 100%

Specifications are subject to change.