



Size:

0.60m

PMAR-60

Dynamic Stabilization for Harsh Seas

The PMAR-60 features a 3-axis stabilized platform with integrated gyro and GPS sensors, delivering continuous motion compensation to maintain a stable satellite link in rough seas and adverse weather, ensuring mission-critical connectivity for all maritime operations.

Intelligent Acquisition and Band Agility

Using digital signal analysis, the terminal rapidly locks onto target satellites by evaluating Carrier-to-Noise (C/N) ratios. Supporting both Ku and Ka bands, it enables fast transponder switching and offers the spectral agility needed for varied and evolving mission requirements.

Uninterrupted Connectivity Through Precision Tracking

With an advanced conical scan algorithm achieving 0.2° RMS accuracy, the system ensures precise satellite tracking and swift multi-satellite handovers. This provides seamless, reliable beyond-line-of-sight (BLOS) communications for continuous vessel operations and data exchange.

Key Features

- Ku and Ka bands available
- Highly reliable Direct Drive System
- Optional 4G/ 5G/LTE supported modem for load balancing and bonding solutions
- Exceptional tracking accuracy
- Rapid Blockage Recovery Time
- 3-Axes Stability System
- 4-Axes Tracking System
- Consistently high data rate
- Broad modem compatibility
- Easy installation and retrofit





GENERAL SPECIFICATIONS

Reflector Diameter
Stabilization Platform
Antenna Form
Antenna Material
Power Input
Power Consumption

PMAR-60

0.65m
3-Axis for stability, 4-axis for tracking
Circle against symmetrical reflector and cap feed
Carbon-fiber
DC18-36V
≤85W (Ku 16W BUC) ≤90W (Ka 10W BUC)

RF CHARACTERISTIC

Frequency (GHz) Tx
Frequency (GHz) Rx
Antenna Gain (dBi) Tx
Antenna Gain (dBi) Rx
Tx/ Rx Isolation (dB)
Rx/Tx Isolation (dB)
Cross Polarization (dB)
G/T
EIRP (dBw)
Antenna Pattern Compliancy
Pointing Accuracy
Initial Acquisition Time
Blockage Recovery Time

X-Band

7.9-8.4
7.25-7.75
32.1+20lg(f/8.15)
31.3 +20lg(f/7.5)
85
40
ITU-RS-580 and ITU-RS-465-6
≤0.2° (R.M.S)
≤2min
≤5s (Cover for 5min)

Ku-Band

13.75-14.50
10.70- 12.75
38.1+20lg(f/14.25)
37.1+20lg(f/12.75)
85
40
35 (Axis)
13.3
48 (16W BUC)

Ka-Band

29.0-30.00
18.7-20.20
44.9+20lg(f/30)
41.5+20lg(f/19.6)
85
40
151
54.5(10W BUC)

MECHANICAL/ POWER SPEC.

Motion Range
Antenna Revolution
Acceleration
Weight
Antenna Profile Dimensions
Positining Mode

Azimuth

360° continuous
100°/S
200°/S ²
≤17Kg(including antenna system&Transceiver,excluding Radome)
≤725*H675mm (D*H)
GPS

Elevation

-10°- 100°
100°/S
200°/S ²

Polarization

±110° (Ku), 90° (Ka)

Roll

-30°-30°
100°/S
200°/S ²

ENVIRONMENTAL SPECIFICATIONS

Operation Temperature
Survival Temperature
Protection
Operational Wind Load
Survival Wind Load
Humidity

PMAR-60

-40~ +55°C
-55~ +70°C
IP65
80 Knot
110 Knot
0 to 100%

Specifications are subject to change.