



PMAR-60

he PMAR-60 is specially designed for maritime applications and features a 3-axis stabilization structure. It includes high-precision angle sensors, magnetoresistive sensors, a gyro sensor, and a GPS antenna. These components enable real-time monitoring and adjustments, ensuring the antenna automatically searches for and tracks satellites, maintaining communication even in challenging sea conditions.

The PMAR-60 supports both Ku and Ka band operations with high-precision satellite tracking. Utilizing an advanced conical scan algorithm, it accurately locks onto the satellite with a pointing precision of 0.2° RMS. The antenna offers fast multi-satellite switching, allowing for quick adjustments and seamless transitions between target satellites.

With digital satellite acquisition technology, the PMAR-60 accurately identifies the target satellite by analyzing the C/N value of the desired satellite carrier signal.

Key Features

- > Available in Ku and Ka Bands
- 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







PMAR-60

GENERAL SPECIFICATIONS	
Reflector Diameter	0.6m
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	85V - 264V AC

RF CHARACTERISTICS				
		X-Band	Ku-Band	Ka-Band
Frequency (GHz)	Tx Rx	7.9 - 8.4 7.25 - 7.75	13.75 - 14.50 10.70 - 12.75	27.5 - 31.00 17.7 - 21.20
Antenna Gain (±0.2 dBi)	Tx Rx	32.1+20lg(f/8.15) 31.3 +20lg(f/7.5)	37.30 35.20	43.30 39.80
Tx / Rx Isolation (dB) Rx / Tx Isolation (dB)		85 40	85 30	85 30
Cross Polarization (dB)			35	1.5 (axial ratio)
VSWR	Tx Rx		1.30:1 1.50:1	1.30:1 1.50:1
1st Side Lobe (dB)		≤-16	≤-16	≤-16
Pointing Accurancy		≤0.2° (R.M.S)		
Initial Acquisition Time		≤2min		
Blockage Recovery Time		≤5s (blockage 20min)		

MECHANICAL / POWER SPECIFICATIONS					
	Azimuth	Elevation	Roll		
Antenna Speed	90°/S	90°/S	90°/S		
Antenna Travels	360° continuous	-20°~+120°	± 35°		
Acceleration	200°/S²	200°/S²	200°/S²		
Weight	<40 Kg	<40 Kg			
Radom Size	D: 800mm H: 850mm	D: 800mm H: 850mm			
System Power Supply	100-230VAC 50-60Hz				

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%	

TURKEY

P:+90 216 540 72 57

M:sales@pals.com.trW:www.pals.com.tr

NETHERLANDS

P:+31 6 85 52 63 16

M: sales@pals-comsat.comW: www.pals-comsat.com

