



PMAR-35N

It is widely used in various military unmanned platforms to improve the combat effectiveness and mobility of troops. It is also used in the emergency command and communication of public security, armed police, fire protection, traffic, safety supervision, communications and other departments to improve the ability of relevant departments to deal with emergencies such as flood rescue, earthquake rescue, forest fire, fire protection, and civil air defense.

The highly integrated design integrates the high-efficiency parabolic feed network, low noise amplifier, servo control module GPS positioning module and intelligent tracking structure into the same antenna, which enables the unmanned platform to perform remote control through satellites in dynamic motion, real-time video transmission, IP call and broadband Internet access.

Key Features

- The product supports Ku and Ka band;
- Fast initial pointing time to satellite: The cold start positioning and pointing time of GPS < 80s, hot initiation (or manual input) < 60s;
- High tracking accuracy: Under no blockage, the tracking error < 0.5dB(RMS);
- Perfect tracking stability: The AZ adopts loop stability algorithm, rotate fast or "S" column, it can still track accurately the satellite;
- Fast sheltering recovery time: The blockage time < 5min, recovery time < 3s; blockage time < 20min, recovery time < 5s;
- Convenient maintenance: Modular design of system, simple interface specification and convenient fault diagnosis and maintenance;
- Use three-axis stability, four-axis tracking system with strong tracking stability;



GENERAL SPECIFICATIONS	
Reflector Diameter	0.35m
POL Mode	Ku Band Linear / Ka Band Circular
Pointing Satellite Mode	Auto
Protection Grade	IP 67
Weight	≤6.5Kg with 16W Transceiver Without Radom ≤7.5Kg with 16W Transceiver and IQ200 Modem
Dimension	With Modem 405x410mm Without Modem 405x398mm
Power Supply	DC 18-60V
Power Consumption	80W

RF CHARACTERISTIC		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 (±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
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
Cross Polar Isolation		>35 dB within 1 dB beamwidth	
Tx-Rx isolation (dB)		85	85
RX-TX isolation (dB)		30	30

MECHANICAL SPECIFICATIONS				
	Azimuth	Elevation	Polarization	Roller
Antenna Range	360° continuous	-8° - 100°	± 110°	± 20°
Antenna Speed	100°/s	100°/s		
Antenna Acceleration	200°/s ²	200°/s ²		

CONTROL SPECIFICATION	
Pointing accuracy	≤0.2° (R.M.S)
Initial acquisition time	≤ 2min
Blockage recovery time	≤5s (blockage 20min)

ENVIRONMENTAL SPECIFICATION	
Operation Temperature	-40 ~ +55°C
Storage Temperature	- 50 ~ +70°C
Humidity	98%

TURKEY

P : +90 216 540 72 57

M : sales@pals.com.tr

W : www.pals.com.tr

NETHERLANDS

P : +31 6 85 52 63 16

M : sales@pals-comsat.com

W : www.pals-comsat.com

