



POMA-S Ku/Ka

PALS Satellite antenna solutions are not limited to fixed ones. You could keep communicating while you drive. Don't mind the terrain just keep move on and go live. PALS designed Satcom On the Move Antenna solution on its extensive experience in antenna design.

POMA-S Ku/Ka is special design dual band antenna which provides Ku and Ka Band operation in the same time. It also provides high bandwidth, and it can continuously track the satellite and maintain communication. It offers high-performance satellite connectivity even while your vehicle is on the move.

Continuous, reliable, and secure vehicular satellite connection on land is now possible. Light-weight POMA-S Ku/Ka is practical and also suitable for rugged terrain. It tracks the satellite in real-time with high accuracy.

POMA-S Ku/Ka is perfect for military, mobile emergency communications, police, homeland security, governmental organizations, search and rescue teams, newsgathering, private security, and many other on-the-move real-time video, voice, and data applications.

Key Features

- Ku and Ka Band 4 port feed
- Reliable high data rate
- Communication in all terrains and weather conditions
- Simultaneous flexible operation in Ku and Ka Band
- Light-weight and compact design
- Accurate satellite tracking
- Advanced tracking system
- Military version is available



GENERAL SPECIFICATIONS

Reflector Diameter	0.45m
POL Mode	Ku Band Linear & Ka Band Circular
Pointing Satellite Mode	Auto + Manual
Controller	19 inch 1U Controller
Weight	40 Kg

RF CHARACTERISTICS

		Ku Band	Ka Band
Frequency (GHz)	TX	13.75 - 14,5	27.5 - 31.0
	RX	10.7 - 12.75	17.7 - 21.2
Gain (± 0.2 dBi)	TX	32.6	38.1
	RX	32.3	36.2
Port Isolation (dB)		≥ 85	
Cross-Polar Isolation (dB)		≥ 30	
WSVW		$\leq 1.6:1$	
Radome Insertion Loss (dB)		0.5	
Power Capacity (W)		1000	
Tracking accuracy (dB)		≤ 0.5 (RMS)	
Initial Peaking Time		≤ 2 min	
Recovery Time		≤ 5 s	

MECHANICAL SPECIFICATIONS

Motion Range	EL 10° - 90° AZ: 360° rotation without limit POL: $\pm 95^{\circ}$
Drive Rate	AZ: $\leq 60^{\circ}/s$ EL: $\leq 60^{\circ}/s$ POL: $\leq 40^{\circ}/s$
Angular Acceleration	AZ: $200^{\circ}/s^2$ EL: $200^{\circ}/s^2$

ENVIRONMENTAL SPECIFICATION

Operation Temperature	$-40 \sim +60^{\circ}\text{C}$
Storage Temperature	$-50 \sim +70^{\circ}\text{C}$
Operation Wind Load	76 km/h
Storage Wind Load	126 km/h
Humidity	95% (20°C)
Protection	IP65

Compliances / Certificates



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