



P-MOMA

PALS MOMA terminals are completely compliant and meet international IP65 standards for ruggedization. The terminals have been demonstrated to function in the severe environmental conditions on the planet.

The majority of conflicts in the 21st century are on a smaller scale, which is a stark contrast to the scenarios of the 20th century. These include global uprisings and activities to maintain peace against a threat. To support a variety of missions, the military and government agencies seek to secure dependable high-bandwidth broadband SATCOM communication. Maintaining a satellite connection while on the move or rapidly deploying teams that can establish communication anywhere in the world in a dependable and efficient manner poses some difficulties for ground forces.

PALS' **Satcom On The Move Manpack** brings complete **on-the-move solution to broadband communications at voice, video and data to the tactical battlefield level.** The solution provided by Pals is a small and lightweight Ka-band SATCOM terminal with an integrated BUC and modem. Tactical environments' unique mission-critical requirements introduce a new class of consumers and potential applications to the traditional.

Key Features

- Enabling individual soldiers to communicate in real time with the command center directly through the satellite, anywhere covered by the satellite.
- Real-time interworking between the soldier and the command center at the field
- High precision pointing, fast capture, and stable tracking
- 40 seconds startup to normal operation
- More than 3 hours Battery running time
- Easy, one button operation
- Compact, detachable battery



GENERAL SPECIFICATIONS

Reflector Diameter	0.12m
POL Mode	Ka Circular
Control Mode	Wired + Wireless (Control APP)
Antenna Weight	≤ 4Kg (Including 6W BUC, LNB)
System Weight	≤ 8.5kg (Exclude Battery)

RF CHARACTERISTICS

Frequency (GHz)	RX: 17.7~21.2	TX: 27.5~31.0
Gain (±0.2 dBi)	RX: 26	TX: 29
First Side Lobe (dB)	< -12	
Port Isolation (dB)	≥ 60	
VSWR	≤ 1.8:1	
Axial Ratio	≤ 1.5dB (Axial direction) Ka band	
Noise Temperature	< 150K (EI 10°)	
Tracking Accuracy	≤ 0.2° RMS	
Accuracy	< 0.2° (Absolute accuracy, after calibration)	
Power Capacity	≥ 100 W/Port	

MECHANICAL SPECIFICATIONS

Motion Range	EL 0°~ 90° AZ: 360 °
Drive Rate	AZ 200°/s EL 200°/s
Angular Acceleration	AZ 200°/s ² EL 200°/s ²

ENVIRONMENTAL SPECIFICATION

Power Supply	12 ~ 24 VDC
Overall Power Consumption	≥ 100 W
Operating Temperature	-40°C ~ +55°C
Storage Temperature	-55°C ~ +70°C
Humidity	95% (20°C)
Protection Class	IP65

Compliances / Certificates



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