



PLPA

Satcom On-the-Move (SOTM) is commonly the only option to provide broadband communications that are continuous, dependable, and easily installed.

Real-time Ka-band and Ku-band satellite communications are accomplished by the PALS PLPA antenna series, a low-profile, lightweight, ruggedized two-way antenna system, primarily for video, voice, and data. Its robust design and compact size enable installation on a variety of vehicles.

Minimal size, weight, and power consumption allow installation on small vehicles or marine vessels. The antenna's light weight ensures easy and safe mounting for quick and easy operation by non-technical personnel.

The antenna uses high-efficiency planar-array antenna to achieve an ultra low-profile design. Even when traveling at high speeds and through difficult terrain, the dual-axis stabilized tracking system ensures precise acquisition and locking onto the geosynchronous satellites. The PALS PLPA series antenna makes it possible to reliably and continuously access broadband Internet, e-mail, VoIP, VPN, video conferences, files, and other data communications despite quick maneuvering.

Key Features

- Ku and Ka Dual Band antenna
- Supports standard and extended Ku-band
- Supports commercial & military Ka-band
- Mount that is adaptable to a variety of vehicles
- Automatic acquisition and tracking of target satellite signal
- Optional Internal BUC and modem
- Supports OpenAMIP Protocol



RF CHARACTERISTIC		KU-Band	KA-Band
Frequency (GHz)	Tx	14.00-14.50	29.40 – 31.00
	Rx	12.25-12.75	19.60-21.20
Antenna Gain (dBi)	Tx	36.7	37.9
	Rx	35.7	37.2
G/T (dB/K)		12.5	7.7
Side lobe		AZ 1st side lobe:≤-14dB EL side lobe:≤-12dB	
POL		Linear	Circular
Cross POL isolation		≥33dB(Ku band Tx axial)	
Axial ratio		≤1.5dB(Ka band)	
Port isolation		≥85dB(Including Tx reject filter)	
VSWR		≤1.5:1.	
Radome insertion loss		≤-0.3dB	≤-0.5dB

MECHANICAL SPECIFICATIONS	
Motion Range	AZ:0°~360°continuous EL :0°~90° Ku band POL:360°continuous
Drive Rate	AZ:Angular speed≥100°/s EL:Angular speed ≥80°/s
Tracking accuracy	Ku band ≤0.5dB(R.M.S) Ka band ≤0.8dB(R.M.S)
Pointing Duration	Initial pointing time ≤3min Re-acquisition time≤5s(target loss within 20min)

ENVIRONMENTAL SPECS	
Working temperature	-40°C~+55°C
Storage temperature	-45°C~+70°C

Compliances / Certificates	     
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Would you like to get more information?

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