



Communications  
& Technology

## KA-BAND SERIES

Easy to Deploy Terminal for Ka Band



STANDARD  
MIL-STD  
810G

## KA-BAND SERIES

Simple, quick and continuous connection with PALS Ka Band antenna series. When you need to be on air faster, PALS antennas keep you just connected with "one touch and live" feature with minimal training; the extreme ease and acquisition speed will guarantee you will not miss any opportunity.

We present you a turnkey solution for broadcasting, data and emergency communication needs. Reliable PALS KA Band Antennas offer a cost-effective solution for broadband access. This lightweight and strong terminals with special vehicle mounting interface can be installed on a wide range of vehicles without having to make structural changes.

Offset reflectors, 16 bit chip resolver, GPS, compass and true inclinometer makes that drive-away possible to auto acquire satellite within 2 minutes.

## Key Features

- One-Touch Operation
- Strong yet lightweight Carbon-Fiber (PKM-77Ka) design which rigorously tested to operate in the toughest environments (wind, rain, sun...)
- 0,01° pointing accuracy with resolvers at 3 axes
- Fully motorized driving mechanism with zero backlash gear system
- Prime Focus antenna and feed system
- Low power consumption optional De-Ice system
- Manual drive tool kit for emergency situations
- Easy vehicle integration





type approved  
for Broadband Services



## PKM-77Ka

Fully motorized and "EUTELSAT type approved" PKM-77Ka provides uninterrupted internet connection while mounted on the roof of all types of vehicles. The perfectly shaped Carbon - Fiber POD and back cover improves aerodynamics and aesthetics. PALS new generation PAC-500 allows one button auto acquisition also antenna can be controlled easily by mobile devices and any web browser by using Wi-Fi IP router. PKM-77Ka comes along with EUTELSAT Tooway kit and antenna is ideally suitable for SNGs, corporate, data and emergency communication.



## PKM-98Ka

Advanced design and high precision is code of PKM-98Ka. It is compatible with EUTELSAT Tooway ISP services and includes EUTELSAT Tooway kit. Easy one button auto acquisition is provided by PALS new generation PAC-500. The antenna is suitable to use for SNGs, corporate, data and emergency communication. PKM-98Ka specifically designed for more Bandwith. Ideally shaped antenna POD improves aerodynamics driving and keeps antenna safe.



## PKM-120Ka

Robust and easy to use satellite antenna PKM-120Ka provides high-speed internet access with configured satellite. PALS new generation PAC-500 lets you operate it with easy one button auto acquisition. It is compatible with EUTELSAT Tooway ISP services. The antenna is suitable for SNGs, corporate, data and emergency communication. PKM-120Ka drive-away antenna system has one piece of high accuracy, prime focus reflector. PKM-120Ka is a quick deploy antenna and suitable for reliable fast connectivity with the most Bandwith.



## PKM-75Ka

PKM-75Ka is an easy to use and very portable Drive Away Prime focus, offset antenna system includes 75 cm parabolic reflector with two axes pedestal. Pre-galvanized steel with a powder coat finishing enables corrosion resistance and long use time in rugged environments. PKM-75Ka meets different application standards







GENERAL SPECIFICATIONS				
	PKM-77Ka	PKM-98Ka	PKM-120Ka	PKM-75Ka
Reflector Diameter	0,77 m	0,98 m	1.20 m	0,75 m
Reflector Type	Offset, Prime Focus			
Operation On-Air Time	~2 minutes with Tooway Kit			~2 Minutes
Antenna Concept	Prime focus offset feed antena with elliptical reflector, folding feed-arm			
Reflector Material	Steel	SMC	SMC	Steel

RF CHARACTERISTIC					
	PKM-77Ka	PKM-98Ka	PKM-120Ka	PKM-75Ka	
Frequency (GHz)	Tx	28.10 - 30.00	28.10 - 30.00	28.10 - 30.00	28.30 - 30.00
	Rx	18.30 - 20.20	18.30 - 20.20	18.30 - 20.20	18.30 - 20.20
Antenna Gain (±0.2 dBi)	Tx	45.80	47.60	49.10	45.3
	Rx	42.50	44.50	46.90	41.9
Satellite Operator Compliancy	Eutelsat	Eutelsat	Eutelsat	Yahsat, Turksat, Avanti	

MECHANICAL SPECIFICATIONS				
		Azimuth	Elevation	
Drive Rates	Slow	0.4° / sec	0.1° / sec	
	Medium	2.5° / sec	1.5° / sec	
	Fast	4.5° / sec	3.0° / sec	
Antenna Travels		± 220°	Up to 90°	
Manual Override Mechanism	Manual override for elevation and azimuth drive system			

ENVIRONMENTAL SPECIFICATIONS					
	PKM-77Ka	PKM-98Ka	PKM-120Ka	PKM-75Ka	
Temperature Range	Operational: -30°C to 55°C Survival: -40°C to 60°C				
Wind Speed	Operational	95 km/h	80 km/h	72 km/h	95 km/h
	Survival	140 km/h	140 km/h	130 km/h	140 km/h
	Stowed	< 175 km/h	< 175 km/h	< 175 km/h	< 175 km/h
Rain	Survival in heavy rainstorm (sealing class IP65)				
Solar Radiation	1000 W/m <sup>2</sup>				
Humidity	0 to 100% with condensation				

Satellite Compliances / Certificates				
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Compliances / Certificates				
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Would you like to get more information?

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