



Communications
& Technology

PKA SERIES

Easy to Deploy Terminal for Ka Band



STANDARD
MIL-STD
810G

PKA 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.

With offset reflector, GPS, compass and modem signal supported autopointing 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
- Optional 4G/5G/LTE supported modem for load balancing and bonding solutions





type approved
for Broadband Services



PAK-74

Fully motorized and "EUTELSAT type approved" PAK-77 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 a Wi-Fi IP router. PAK-77 comes along with EUTELSAT Tooway kit and antenna is ideally suitable for SNGs, corporate, data and emergency communication.



PAK-100

Advanced design and high precision is code of PAK-98. 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 Bandwidth. Ideally shaped antenna POD improves aerodynamics driving and keeps antenna safe.



PAK-120



The robust and user-friendly PAK-120 satellite antenna system delivers high-speed internet access in any environment through its pre-configured Ka-band satellite connectivity. Featuring a single-piece high-accuracy prime focus reflector, this drive-away solution achieves rapid deployment in under 5 minutes – ideal for time-critical operations. Revolutionizing user control, the next-generation PAC-500 controller enables one-button auto-acquisition, eliminating complex manual alignment and requiring no specialized training. Fully compatible with EUTELSAT Tooway ISP services, the system maximizes bandwidth efficiency for data-intensive applications like HD video streaming, large-file transfers, and real-time communications. Engineered for reliability in extreme conditions, the PAK-120 excels in mission-critical scenarios including satellite news gathering (SNG), corporate field operations, emergency response deployments, and mobile command centers where fast, resilient connectivity is non-negotiable.



GENERAL SPECIFICATIONS				
	PKA-74	PKA-100	PKA-120	
Reflector Diameter	0,74 m	1.0 m	1.20 m	
Reflector Type	Offset, Prime Focus			
Operation On-Air Time	~2 minutes with Tooway Kit			~2 Minutes
Antenna Concept	Prime focus offset feed antenna with elliptical reflector, folding feed-arm			
Reflector Material	Steel	SMC	Steel	

RF CHARACTERISTIC				
		PKA-74	PKA-100	PKA-120
Frequency (GHz)	Tx	28.10 - 30.00	28.10 - 30.00	28.10 - 30.00
	Rx	18.30 - 20.20	18.30 - 20.20	18.30 - 20.20
Antenna Gain (±0.2 dBi)	Tx	45.80	47.60	49.10
	Rx	42.50	44.50	46.90
Satellite Operator Compliancy		Eutelsat	Eutelsat	Eutelsat

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				
		PKA-74	PKA-100	PKA-120
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
	Survival	140 km/h	140 km/h	130 km/h
	Stowed	< 175 km/h	< 175 km/h	< 175 km/h
Rain		Survival in heavy rainstorm (sealing class IP65)		
Solar Radiation		1000 W/m²		
Humidity		0 to 100% with condensation		

Compliances / Certificates	      
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