



PTA-100Ka Transportable Antenna

PROFEN's PTA-100Ka is a transportable (Fly-away) satellite antenna in Ka Band designed for quick deployment and operation in Broadcast SNG, and VSAT applications.

The antenna structure with ultra-robust aluminum mount and lightweight high-performance carbon fiber reflector makes it an ideal choice for Disaster Relief, Emergency Communications, Corporate Networks, and Military satellite communications since it can be easily deployed for a quick operation, even in harsh environment.

## **Typical Applications**

- Broadband Internet in urban and rural area
- Emergency communication from disaster area
- Corporate network extension via satellite
- Satellite News Gathering (SNG) for broadcast
- Homeland Security mobile satcom

## **Key Features**

- Portable & rigid mechanical structure
- 9 pieces carbon-fiber reflector
- Aluminum tripod structure
- Angular indicators on each axis
- Quick-click feed flange
- Support various type of transceiver/BUC
- Easy and tool free installation (<10min)
- Unique reflectors with latch mounting
- Total weight 20 kg (without cases)
- IATA complied carrying cases



## PTA-100Ka Transportable Antenna \*

RF SPECIFICATIONS			
Rx Frequency Range (GHz)	17.7-19.2	Antenna Noise Temperature	40K @ 20° EL
	19.2-20.2		
Tx Frequency Range (GHz)	27.0-29.0	Cross-Pol Isolation (dB)	-35 dB on axis
	29.0-31.0		-32 dB in 1 dB BW
Polarization	Circular	VSWR	1.3:1
Polarization Axis Ratio	Circular 1.06 dB on axis	VSWR	1.3:1
Axis Ratio	1.06 dB on axis		
Axis Ratio  G/T @ mid-band and 20° EL		Side Lobe Performance	1.3:1 ITU-R S.580-6
Axis Ratio  G/T @ mid-band and 20° EL Tx Gain (mid-band) (dBi)	1.06 dB on axis		
Axis Ratio  G/T @ mid-band and 20° EL	1.06 dB on axis 23.2 dB/°K w/50K LNA	Side Lobe Performance	ITU-R S.580-6

ENVIRONMENTAL	. SPECIFIC	CATIONS
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Temperature range		Wind Performance	
Operational	-40 to +60 °C	Operational	60 kph
Survival	-40 to +70 °C	Survival	100 kph (Stowed)
Rainfall	Max 100mm/h	Altitude	4000m
Humidity	98 % Non-Condensir	ng	

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RF Interface

MECHANICAL SPECIFICAT	IONS		
Antenna Size	1.0 m	Antenna Type	Parabolic, ring-focus Splash plate sub-reflector
Reflector	9 pcs segmented Carbon Fiber		
Axis Travel		Mount	EL over AZ tripod
Azimuth	<u>+</u> 25°		
Elevation	0° to 90°		
		Weight	32kg, IATA complied
Color	White as standard (other colors optional)	Carrying Cases	One hard case or two soft cases





\*Specification of the antenna is subject to change without any notice

Rx: WR42 Tx: WR28