



PTA-180Ku Transportable Antenna

PROFEN's PTA-180Ku is a transportable (Fly-away) satellite antenna 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 rural area
- ❖ Emergency communication from disaster area
- ❖ Corporate network extension via satellite
- ❖ Outdoor Broadcast
- ❖ Homeland Security mobile satcom

Key Features

- Portable & Rigid Mechanical Structure
- Easy to install (< 20 min)
- Maintenance free bearings on each axis
- Lightweight 9 pieces carbon-fiber Reflector and aluminum tripod structure
- Angular indicators on each axis
- Tool free installation
- Unique reflector plates with latch mounting
- Total weight 50 kg (without cases)
- IATA complied carrying cases

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RF SPECIFICATIONS

Rx Frequency Range (GHz)	10.7 – 12.75	Antenna Noise Temperature	30K @ 20° EL
Tx Frequency Range (GHz)	13.75-14.5 (12.75-14.5 option)	Cross-Pol Isolation (dB)	-35 dB on axis -32 dB in 1 dB BW
Polarization	Linear Orthogonal Optional Co-Pol	VSWR	1.30:1
		Tx to Rx Isolation	85 dB
G/T @ mid-band and 20° EL	23.6 dB/°K w/50K LNA	Side Lobe Performance	ITU-R S.580-6
Tx Gain (mid-band) (dBi)	46.5 dBi	Power Handling Capability	1 KW per port
Rx Tx Gain (mid-band) (dBi)	45.5 dBi		

ENVIRONMENTAL SPECIFICATIONS

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	95 % Non-Condensing		

MECHANICAL SPECIFICATIONS

Antenna Size	1.8m	Antenna Type	Parabolic, ring-focus Splash plate sub-reflector
Reflector	9 pcs segmented Carbon Fiber	Mount	EL over AZ tripod
Axis Travel		Tripod Load Carrying Capacity	Reflector 20 kg
Azimuth	±200°		
Elevation	0° to 90°		
Polarization	±100° for 2-port feed		
Color	White as standard (other colors optional)	Carrying Cases	IATA complied 4 hard cases
RF Interface	WR75 Cover Flange		



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