



PTA-180X Transportable Antenna

PROFEN's PTA-180X is a transportable (Fly-away) satellite antenna designed for quick deployment and operation in VSAT applications in the field.

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 Intranet/Internet in rural area
- ❖ Emergency communication from disaster area
- ❖ Corporate network extension via satellite
- ❖ Tactical mobile satellite communication

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
- 3 pcs of carrying cases
- MIL-STD-810G compliant
- Antenna pointing assistance (option)

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RF SPECIFICATIONS

Rx Frequency Range (GHz)	7.25 - 7.75	Antenna Noise Temperature	54K @ 15° EL
Tx Frequency Range (GHz)	7.90 - 8.40	Cross-Pol Isolation (CP)	>24 dB on axis
Polarization	Circular	VSWR	1.50:1
		Tx to Rx Isolation	85 dB
G/T @ mid-band and 15° EL	18.5 dB/°K w/60K LNA	Side Lobe Performance	ITU-R S.580-6
Tx Gain (mid-band) (dBi)	40.7 dBi	Power Handling Capability	1 KW per port
Rx Tx Gain (mid-band) (dBi)	40.1 dBi		

ENVIRONMENTAL SPECIFICATIONS

Temperature range		Wind Performance	
Operational	-30 to +60 °C	Operational	50 kph
Survival	-40 to +70 °C	Survival	120 kph (Stowed)
Rainfall	Max 100mm/h	Altitude	4000m
Humidity	95 % Non-Condensing		

MECHANICAL SPECIFICATIONS

Antenna Size	1.8m	Antenna Type	Parabolic, 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	±60°		
Elevation	5° to 90°	Case Dimensions	Case-1: 910x910x635mm
Color	White as standard (other colors optional)	WxDxH	Case-2: 910x910x635mm
RF Interface	WR112 Cover Flange	Case Weight	Case-3: 910x610x635mm
			Case-1: 38 Kg
			Case-2: 52 Kg
			Case-3: 38 Kg
MIL-STD-810G	Comply the requirement for humidity, solar radiation, wind, temperature, rain, shock, vibration, icing, sand, dust, and altitude.		



* Specification of the antenna is subject to change without any notice
Picture may not show the real product



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