



PTA-180C Transportable Antenna

PROFEN's PTA-180C 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
- Total weight 50 kg (without cases)
- IATA complied 4 pieces of carrying cases



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PTA-180C Transportable Antenna *

RF 3FLCIFICATION3			
Rx Frequency Range (GHz)	4.500 to 4.800	Antenna Noise Temperature	58K @ 30° EL
Tx Frequency Range (GHz)	6.725 to 7.025	Cross-Pol Isolation (CP)	>30 dB on axis

Polarization Co-pol Circular **VSWR** 1.30:1 Tx to Rx Isolation 65 dB

G/T @ mid-band and 20° EL 16.2 dB/°K w/50K LNA Side Lobe Performance ITU-R S.580-6 Tx Gain (mid-band) (dBi) 40.5 dBi @ 7.0 GHz **Power Handling Capability** 500W per port Rx Tx Gain (mid-band) (dBi) 37.3 dBi @ 4.8 Ghz

ENVIRONMENTAL SPECIFICATIONS

Wind Performance Temperature range -40 to +60 °C **Operational** 60 kph **Operational**

Survival -40 to +70 °C Survival 100 kph (Stowed)

Max 100mm/h Altitude 4000m Rainfall **Humidity** 98 % Non-Condensing

MECHANICAL SPECIFICATIONS

Antenna Size 1.8m Parabolic, ring-focus Antenna Type

> Splash plate sub-reflector

Case-3: 750x750x550mm

Case-4: 750x750x550mm

Reflector 9 pcs segmented Mount EL over AZ tripod

Carbon Fiber

Case-1: 800x800x450mm **Axis Travel Cases Dimensions** Case-2: 980x350x450mm

Azimuth +200° 0° to 90° **Elevation**

Polarization ±100° for 2-port feed

Color Case-1: 22 Kg White as standard **Cases Weights**

Case-2: 32 Kg (other colors optional)

WxDxH

Case-3: 25 Kg RF Interface Case-4: 25 Kg WR137 Cover Flange





