



Size:

4.0m

PTA-400

Self-Contained Trailer Design

The PTA-400 is a fully integrated transportable satellite antenna mounted on a dedicated trailer. The entire system automatically folds into a compact unit without any disassembly, ready for towing by any vehicle with approximately 7 tons capacity. This self-contained design eliminates complex logistics and setup procedures.

One-Person Deployment

Despite its 4.0-meter size, the PTA-400 enables single-operator deployment with remarkable ease. The automatic folding mechanism and integrated fixing jack system allow rapid setup without additional equipment or crew, making it ideal for emergency response and remote operations where manpower is limited.

Dual Optic Precision

Featuring a dual optic configuration with parabolic main reflector and sub-reflector, the system delivers exceptional RF performance. The quick-install feed-arm accommodates optional feed-horn systems for C, X, Ku, and Ka bands, ensuring versatile operation for broadcasting, telecommunications, and disaster recovery missions.

Key Features

- C, X, Ku, Ka Bands are available
- Supports manual & auto-tracking features
- 3-Axes motorization
- Side wing electrical deploy and stow
- Lightweight, high-strength, and high-precision carbon-fiber reflector
- Supports DVB-S/DVB-S2, beacon
- Satellite locking within 15 minutes
- High-accuracy GPS & anti-interference electronic compass
- Optional Beacon Tracking
- Optional De-Ice System





TECHNICAL SPECIFICATIONS / PTA-400 Scan the QR code for more information.

GENERAL SPECIFICATIONS

	PTA-400
Reflector Diameter	4.0m
Reflector Material	Carbon Fiber
Antenna Concept	Foldable

RF CHARACTERISTIC

	PTA-400
Operational Frequency (GHz) Tx	13.75-14.50
Operational Frequency (GHz) Rx	10.70 - 12.75
Antenna Gain (dB) Tx	52.0 + 20lg (f13.0) @midband
Antenna Gain (dB) Rx	50.1+ 20lg (f10.7) @midband
EIRP (dBW)	68 (with 40W BUC) / 72 (with 100W BUC)
CPI (On Axis, linear) (dB)	35
Polarization	Linear
VSWR (Tx&Rx)	1.3
Antenna Pattern Compliancy	ITU-R S.580-6 & ITU-R S.465-6

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Antenna Travel Range	± 110°	0° to 90°	± 90°
Antenna Travel Speed	± 110°	0.1°/S / 0.4°/S	0.1°/S s / 3°/S
Manual Override Mechanism	Manual override for elevation and azimuth drive system		
Operational Limits	Mechanical and software limit for safety opration		

ENVIRONMENTAL SPECIFICATIONS

	PTA-400
Temperature Range Operational	-25°C to +55°C
Temperature Range Survival	-40°C to +60°C
Wind Speed Operational	72km/h
Wind Speed Survival (Stowed)	201 km/h
Survival Rainfall	102mm/h
Humidity (Relative)	0-95%

Specifications are subject to change.