



PTA-400

The PTA-400 is a transportable satellite antenna, designed for various applications and operation in different bands. The antenna, together with the RF equipment, is mounted on a trailer and automatically folds into a compact unit without any disassembling. You can transport the system by a vehicle with a towing capacity of approximately 7 tons (includes the trailer). Transportable design enables one person deployment very easily. The PTA-400 antenna is a dual optic antenna system including 4.0m parabolic main reflector and sub reflector, a quick install feed-arm, feed-horn and trailer with fixing jack system. The feed-horn system is available for C, X, Ku, and Ka Bands as an option.

COMPATIBILITY

- MIL-STD-810G Compliant
- MIL-STD-461F Compliant
- MIL-STD-1472 Compliant
- MIL-STD-188-164A Compliant
- ITU-RS-580 Compliant
- ITU-RS-465-6 Compliant

Key Features

- Supports manual, and auto tracking features
- C, X, Ku, Ka Bands options are available
- Three axes motorization
- Side wing electrical deploy and stow
- Lightweight, high-strength, and high-precision carbon fiber reflector
- Convenient installation on the platform of trailer
- Supports DVB-S/DVB-S2, beacon in satellite locking within 15 minutes
- High-accuracy GPS & anti-interference electronic compass
- Manual drive tool kit for emergency situations
- High gain, low side-lobe, high accuracy and very good cross polar rejection
- Optional beacon tracking
- Optional De-Ice System



GENERAL SPECIFICATIONS

Reflector Diameter	4m
Reflector Material	Carbon Fiber
Antenna Concept	Trifold

RF CHARACTERISTIC

Operational Frequency (GHz)	Tx	13.75 - 14.50 GHz
	Rx	10.70 - 12.75 GHz
Antenna Gain (Mid Band)	Tx	52.0 + 20lg (f13.0) dB
	Rx	50.1 + 20lg (f10.7) dB
EIRP		68dBW with 40W BUC 72dBW with 100W BUC
CPI (On Axis, linear)		35 dB
Polarization		Linear
Satellite Operator Compliancy		Compliant with most of satellite operator requirements
VSWR (Tx&Rx)		1.3

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Antenna Travel Range	± 110°	0° to 90°	± 90°
Antenna Travel Speed	± 110°	0.1°/S s0.4°/S	0.1°/S s3°/S
Manual Override Mechanism	Manual override for elevation and azimuth drive system		
Operational Limits	Mechanical and software limit for safety operation		

ENVIRONMENTAL SPECIFICATIONS

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

Compliances / Certificates



TURKEY

P : +90 216 540 72 57
M : sales@pals.com.tr
W : www.pals.com.tr

NETHERLANDS

P : +31 6 85 52 63 16
M : sales@pals-comsat.com
W : www.pals-comsat.com

