



PTA-240

The PTA-240 is a transportable satellite antenna, designed for use in different applications and in different bands. The antenna, together with the RF equipment, is mounted on a trailer and it gets folded into a compact unit.

This foldable 2.40m antenna is a dual optic antenna system including 2.4m 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 Band as an option.

PTA-240 can be used with PALS PAC-550 military type antenna controller. It is provided with GPS system, position detection system and high performance satellite beacon receiving system.

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
- EUTELSAT Compliant

Key Features

- C, X, Ku and Ka-Band options are available,
- Support manual, auto and auto-tracking features,
- Three-axis motorization,
- Foldable reflector
- Carbon fiber reflector with light weight, high strength and high accuracy,
- Convenient installation on the platform of trailer,
- Integrated DVB-S/S2 & Beacon Receiver
- Supports OpenAmip
- Optional De-Ice,
- High accurate GPS and anti-interference electronic compass,
- Manual drive tool kit for emergency situations
- High gain, low side-lobe, high accuracy and very good cross polar rejection



GENERAL SPECIFICATIONS

Reflector Diameter	2.4m
Reflector Type	Gregorian Offset
Operation On-Air Time	~3 Minutes
Antenna Concept	Gregorian dual offset antenna with 2.4m elliptical carbon-fiber main reflector, folding feed-arm, fixed sub-reflector

RF CHARACTERISTIC

		Ku-Band	C-Band
Frequency (GHz)	Tx	13.75~14.50 GHz	5.85~6.725 GHz
	Rx	10.7~12.75 GHz	3.4~4.26 GHz
Antenna Gain (± 0.2 dBi)	Tx	48.8 dBi	41.5 dBi
	Rx	47.7 dBi	37.7 dBi
EIRP		64.8dBW with 40W BUC 68.8dBW with 100W BUC	67.52dBW with 400W TWTA
CPI (On Axis, linear)		35dB	30dB
Polarization		Linear / Circular Option	
Satellite Operator Compliancy		Compliant with most of satellite operator requirements	
VSWR		1.3	1.3

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Drive Rates	0.1° /S ~3° /S	0.1° /S ~3° /S	0.1° /S ~6° /S
Antenna Travels	$\pm 200^\circ$	10°~90°	$\pm 90^\circ$
Manual Override Mechanism	Manual override for elevation and azimuth drive system		

ENVIRONMENTAL SPECIFICATIONS

Temperature	Operational	-20°C~+55°C
	Survival	-30°C~+70°C
Wind Speed	Operational	72km/h
	Survival	90km/h
Humidity (Relative)		0-95%

Compliances / Certificates



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