



PTA-240

The PTA-240 is a transportable satellite antenna, designed for used in different applications and in different bands. The antenna, together with the RF equipment, is mounted on a trailer and it gets fold 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 Ku, Ka, X and C 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

		C-Band	X-Band	Ku-Band
Frequency (GHz)	Tx	5.85~6.725 GHz	7.9~8.4 GHz	13.75~14.50 GHz
	Rx	3.4~4.26 GHz	7.25~7.75 GHz	10.7~12.75 GHz
Antenna Gain (± 0.2 dBi)	Tx	48.8 dBi	44.0+20lg (f/8.5)dBi	41.5 dBi
	Rx	47.7 dBi	43.3+20lg (f/7.5)dBi	37.7 dBi
EIRP		67.52dBW with 400W	60dbW with 40W BUC 64dbW with 60W BUC	64.8dBW with 40W BUC 68.8dBW with 100W BUC
CPI (On Axis, linear)		3dB		3dB
Polarization		Linear	Circular	Linear/Circular
Satellite Operator Compliancy		Compliant with most of satellite operator requirements		
VSWR		1.5	1.5	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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