



PTA-240-MIL

Rugged & Transportable Platform

The PTA-240-MIL is a rugged, 2.4m transportable satellite antenna for ultra-compact trailer platform. Its foldable design integrates the antenna and RF equipment into a single unit that automatically collapses for transport, enabling easy movement and rapid field setup.

Superior Performance & Network Versatility

Featuring a precision dual-optic reflector, the terminal delivers exceptional performance with rapid band-switching across C, X, Ku, and Ka bands. It offers 30 RU of free rack space for utmost network flexibility, supports remote monitoring/control.

Military-Grade Control & Mobility

Fully compatible with the military-grade PAC-550 controller for fast, accurate satellite acquisition, the PTA-240-MIL guarantees reliable connectivity in the most challenging conditions. With a 10-foot ISO container footprint and multiple transport options (land, air, sea), it is the ideal solution for defense, emergency response, and remote broadcasting.

Key Features

- C, X, Ku Bands are available
- Foldable reflector
- High-Accuracy GPS & Anti-Interference Electronic Compass
- Support manual & auto tracking
- Single 10ft ISO skid configuration
- Optional Step/Memory tracking & TLE Tracking
- Optional Beacon Tracking
- Optional De-Ice System
- Optional 4G/ SG /LTE supported modem for load balancing and bonding



GENERAL SPECIFICATIONS

Reflector Diameter	2.4m
Reflector Type	Gregorian Offset
Reflector Material	Carbon-Fiber
Operation On-Air Time	~3 Minutes
Antenna Concept	Gregorian dual offset antenna with 2.4m elliptical main reflector, folding feed-arm, fixed sub-reflector
Dimensions (LxWxH)	3.40mx1.90mx1.65m

RF CHARACTERISTIC

	C-Band	X-Band	Ku-Band
Frequency (GHz) Tx	5.85~6.725	7.90~8.40	13.75~14.50
Frequency (GHz) Rx	3.4~4.26	7.25~7.75	10.70~12.75
Antenna Gain (±0.2 dBi) Tx	48.8	44.0+20lg (f/8.5)	41.5
Antenna Gain (±0.2 dBi) Rx	47.7	43.3+20lg (f/7.5)	37.7
EIRP	67.52dBW with 400W	60dbW with 40W BUC	64.8dBW with 40W BUC
EIRP		64dbW with 60W BUC	68.8dBW with 100W BUC
Polarization	Linear	Circular	Linear / Circular
VSWR	1.5	1.5	1.3
CPI (On Axis, linear)	3dB	-	3dB
Radiation Pattern Compliancy	Compliant with MIL-STD-188-164A, ITU - RS-580 and ITU-RS-465-6		

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Drive Rates Slow	0.1°/s~3°/s	0.1°/s~3°/s	0.1°/s~6°/s
Antenna Travels	± 200°	10°~90°	± 90°
Manual Override Mechanism	Manual override for elevation and azimuth drive system		
Road Transport	On trailer or truck (80km/h on road)		
Air transport	Cargo plane (C-160), Helicopter (CH-53, inside and outside)		
Rail transport	According to A MOV P-4		

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational	-20°C~+55°C
Temperature Range Survival	-30°C~+70°C
Wind Speed Operational	80km/h, 97km/h (gusted)
Wind Speed Survival	126km/h/195 km/h (anchored on the ground)
Humidity	0-95%

Specifications are subject to change.

