



PXY-240-MIL

Rapid-Deploy X/Y Pedestal for Multi Orbit Satellite

The PXY-240-MIL combines rapid deployment with robust X/Y pedestal technology for multi-band tracking across LEO, MEO, GEO, and HEO satellites. Fully compliant with MIL-STD-810, it packs into rugged two-man lift transport cases, requires no tools for setup, and deploys in less than 30 minutes, delivering reliable communications in demanding environments.

Multiple Operating Modes

Designed for maximum tactical flexibility, the terminal supports standby, manual, pointing, program, auto, and memory tracking modes. It enables instant target acquisition using modem SNR, beacon, or carrier signals without external tools. Dual GPS receivers and a high-precision feedback mechanism ensure accurate coordinate conversion and reliable multi-orbit tracking.

Program-Led Tracking

A high-performance servo control system delivers precise tracking across all supported orbits. An embedded receiver with optional spectrum display provides real-time signal monitoring, while the modular architecture supports satellite modem integration and field-replaceable ACU and M&C (IAMC) modules. A rugged touchscreen GUI enables intuitive operation, configuration, and system monitoring.



STANDARD
MIL-STD
810

STANDARD
MIL-STD
461

STANDARD
MIL-STD
188-164

Size:

2.40m

Key Features

- Precision Carbon Fiber Reflector
- Quickly Replaceable Feed and RF Chain
- Integrated Monitoring System on web GUI
- Modular Design
- 10MHz High Stability Reference
- TLE tracking
- Embedded Spectrum Analyzer Display (Optional)
- Auto Pointing on Beacon/DVB/Modem/SNR
- Overhead full tracking capability
- Easy to deploy



Scan the QR code for more information.

TECHNICAL SPECIFICATIONS / PXY-240-MIL

GENERAL SPECIFICATIONS

Reflector Diameter
Feed Type
Antenna Concept
Power Supply
Power Consumption

PXY-240-MIL

2.4m Carbon - Fiber
Dielectric Back Feed Assembly
Segmented
100-240 VAC/50-60 Hz
< 2kW

RF CHARACTERISTIC

Frequency (GHz) Tx
Frequency (GHz) Rx
Antenna Gain (±0.2 dBi) Tx
Antenna Gain (±0.2 dBi) Rx
VSWR
Polarization
Axial Ratio (dB)
Antenna Pattern Compliancy

X-Band

790 - 8.40 GHz
7.25 - 7.75 GHz
≥ 43.8 dBi(Ⓢ) 8.15 Ghz
≥ 43.1 dBi(Ⓢ) 7.5 Ghz
≤1.3:1
Circular
≤1.5
ITU-R S.580-6.

Ku-Band

13.75 - 14.50 GHz
10.70 - 12.75 GHz
≥ 48.5 dBi(Ⓢ) 14.25 Ghz
≥ 47.0 dBi(Ⓢ) 12.5Ghz
≤1.3:1
Linear
≥35 dB (CPI)
ITU-R S.580-6.

Ka-Band

27.5 - 31.0
17.7 - 21.2
≥ 54.2 dBi(Ⓢ) 29.25 Ghz
≥ 50.7 dBi(Ⓢ)19.45Ghz
≤ 1.3:1
Circular
≤ 1.5 (Rx) / ≤1.0 (Tx)
ITU-R S.580-6.

MECHANICAL SPECIFICATIONS

Antenna Motion Range
Antenna Drive Rate
Motor
Weight

X Axis

± 90° ± 90°
0.1° - 6° / s
DC Brushless Servo with Brakes
≤ 240Kg without BUC and transport cases

Y Axis

± 90°

Polarization

± 90°

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational
Temperature Range Survival
Wind Speed Operational
Wind Speed Survival
Protection Grade
Solar Radiation

PXY-240-MIL

-30°C - +55°C
-40°C - +70°C
gusting 72 km/h with anchors
gusting 120 km/h with anchors
IP65
1135W/m2

Specifications are subject to change.

