



PTA-370-MIL

Mission-Ready Rapid Deployment

The PTA-370-MIL is a rapidly deployable, multi-band tactical antenna designed for mission-critical connectivity. Its transportable, foldable design, featuring a carbon-fiber main reflector, enables swift deployment in minutes for immediate operational support wherever needed.

Precision & Rugged Performance

The system utilizes a robust elevation over azimuth positioner for precise satellite acquisition and stable high-capacity links. Built to MIL-STD-810G standards with ruggedized construction, it guarantees reliable performance and resilient communications in the harshest environmental conditions.

Spectral Agility for Tactical Flexibility

Engineered for maximum operational flexibility, the PTA-370-MIL operates seamlessly across multiple frequency bands to adapt to diverse and evolving tactical scenarios. This essential multi-band capability ensures forces maintain a critical communications advantage across the entire battlefield.

Key Features

- Modular Multi-Band Capacity, C, X, Ku, Ka
- Foldable reflector
- Feed Replacement under 90 minutes
- Elevation over Azimuth
- System expansion & collection time: Automatic ≤8 minutes, manual ≤20 minutes.
- Single 20ft ISO skid configuration
- Optional GEO/LEO Tracking
- Optional Beacon Tracking
- Optional De-Ice System
- Optional 4G/ 5G /LTE supported modem for load balancing and bonding



GENERAL SPECIFICATIONS

Reflector Diameter
Reflector Type
Reflector Material
Operation On-Air Time
Antenna Concept

PTA-370-MIL

3.7m
Dual Optic
Carbon-Fiber
~3 Minutes
Dual Optic, antenna with 3.7m Carbon-Fiber main reflector

RF CHARACTERISTIC

Frequency (GHz) Tx
Frequency (GHz) Rx
Antenna Gain (±0.2 dBi) @Midband Tx
Antenna Gain (±0.2 dBi) @Midband Rx
Polarization
Port to Port Isolation
Axis Ratio
Cross-Polarization Isolation
Radiation Pattern Compliance
Noise Temperature
Feed Interface Tx
Feed Interface Rx

C-Band	X-Band	Ku-Band	Ka-Band
5.85~6.725	7.90~8.40	13.75~14.50	27.5~31.0
3.4~4.26	7.25~7.75	10.70~12.75	17.7~21.2
≥44.8	≥47.2	≥52.1	≥58.5
≥41.2	≥46.4	≥50.8	≥55.1
Circular	Circular	Linear	Circular
≥40 dB	≥90 dB		
≤1.5dB (Axial)			
		≥35dB (Axial)	
Compliant with MIL-STD-188-164A, ITU - RS-580 and ITU-RS-465-6			
≤52K	≤70K	≤80K	≤170K (EI 10°, windless, sunny)
WR137	WR112	WR75	WR28
WR229	WR112	WR75	WR42

MECHANICAL SPECIFICATIONS

Range of Motion
Speed of Motion
Storage Dimensions

Azimuth	Elevation	Polarization
≥± 180°	0~90°	0.1°/s~6°/s
0.1~15°/s	0.1~5°/s	± 90°
≤3700mm×2400mm×1985mm (LxWxH)		

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational
Temperature Range Survival
Wind Speed Operational
Wind Speed Survival
Humidity
Protection Grade

PTA-370-MIL
-40°C~+55 °C
-50°C~+70 °C
≤80 km/h
≤120 km/h
Not more than 95% (20 °C)
IP 67

Specifications are subject to change.

