



PDA-150-MIL

The PDA-150 is a lightweight Carbon-Fiber mobile satellite antenna, designed for land vehicle applications. It features an aerodynamic design, enhanced with a protective pod that provides both aesthetics and security during transportation.

On-Air in 3 Minutes

On-site, the antenna system enables you to be on air within 3 minutes. You will not be disturbed by any noise or heat. The user-friendly GUI design allows an operator with minimal satellite experience to operate the antenna. The system features high-precision pointing via resolvers, boosted with 16-bit chipsets, achieving 0.01° pointing accuracy with resolvers on 3 axes for stable connectivity on the move.

Rugged Military Version

The PDA-150 is a robust and reliable platform, built to deliver consistent performance in demanding field conditions. For applications where compliance with stringent military standards is a prerequisite, the PDA-150 platform also includes a dedicated MIL-STD compliant, ruggedized and combat-proven variant.

Key Features

- X, Ku, BDS, Ka Bands are available
- High EIRP, high performance
- Carbon-Fiber composite reflector, lightweight mount
- Optional 4G/ SG /LTE supported modem for load balancing and bonding
- One-Button Operation
- Supports OpenAmip
- Optional Step/Memory tracking & TLE Tracking
- Optional Beacon Tracking
- Optional De-Ice System
- Optional hand-held control unit
- Optional customized colour



GENERAL SPECIFICATIONS

Reflector Diameter	1.5m
Reflector Type	Gregorian Offset
Reflector Material	Carbon-Fiber
Operation On-Air Time	~3 Minutes
Antenna Concept	Gregorian dual offset antenna with 1.5m elliptical main reflector, folding feed-arm, fixed sub-reflector

RF CHARACTERISTIC

	X-Band	Ku-Band	Ka-Band
Frequency (GHz) Tx	7.90~8.40	13.75~14.50	28.10~30.00
Frequency (GHz) Rx	7.25~7.75	10.70~12.75	18.30~20.20
Antenna Gain (±0.2 dBi) Tx	39.50 @ 8.15 GHz	44.50 @ 14.25 GHz	49.50 @ 29.00 GHz
Antenna Gain (±0.2 dBi) Rx	39.10 @ 7.50 GHz	43.00 @ 11.70 GHz	39.10 @ 19.00 GHz
Polarization	Circular	2 Port Linear (3 Port Optional)	Circular
VSWR	1.119:1	1.3:1	1.3:1
Cross Polar Isolation	>35 dB within 1 dB beamwidth		
Radiation Pattern Compliancy	Compliant with MIL-STD-188-164A, ITU - RS-580 and ITU-RS-465-6		
RF Power Capacity	Up to 100W	Up to 500W	Up to 100W

MECHANICAL SPECIFICATIONS

	Azimuth	Elevation	Polarization
Drive Rates Slow	0.4° / sec	0.1° / sec	0.4° / sec
Drive Rates Medium	2.5° / sec	1.5° / sec	1.9° / sec
Drive Rates Fast	4.5° / sec	3.0° / sec	3.42° / sec
Antenna Travels	± 220°	Up to 90°	± 115°
Manual Override Mechanism	Manual override for elevation and azimuth drive system		

ENVIRONMENTAL SPECIFICATIONS

	PDA-150-MIL
Temperature Range Operational	-30°C to 55°C, Compliant with MIL-STD-810g Method 501.5 and 502.5
Temperature Range Survival	-40°C to 70°C, Compliant with MIL-STD-810g Method 501.5 and 502.5
Wind Speed Operational	100 km/h, Compliant with ESOG-120
Wind Speed Survival	190 km/h, Compliant with ESOG-120
Wind Speed Unstowed	150 km/h, Compliant with ESOG-120
Wind Speed Stowed	190 km/h, Compliant with ESOG-120
Rain	Survival in heavy rainstorm, Compliant with MIL-STD-810g Method 506.5
Humidity	%95 Aggravated, Compliant with MIL-STD-810g Method 507.5
Solar Radiation	1120 W/m2 (A1 Cycle), Compliant with MIL-STD-810g Method 505.5
Low Pressure	4500 mt, Compliant with MIL-STD-810g Method 500.5
Shock	Compliant with MIL-STD-810g Method 516.5
Sand and Dust	Compliant with MIL-STD-810g Method 510.5
Temperature Shock	Compliant with MIL-STD-810g Method 503.5
Icing	Compliant with MIL-STD-810g Method 521.3
Acoustics	Compliant with MIL-STD-1472
Electromagnetic Compatibility	Compliant with CE102, CS101, CS114, CS115, CS116, RE102, RS103

Specifications are subject to change.

