

PDA-150-MIL

High Performance in Miltary Conditions



PDA-150-MIL

PDA-150MIL complies to Military Standards of low error precise auto-pointing accuracy, X-Pol & Co-Pol performance which provides high EIRP with G/T. PDA-150-MIL provides static and dynamic wind load resistance due to its highly durable zero backlash elevation over azimuth polarisation motorised chassis.

PALS provides satellite auto acquisition with Beacon tracking. Designed to operate with minimal training thanks to "One Touch" operation feature. The extreme ease and acquisition speed will guarantee that you will not miss any data, even in rugged environmental conditions.

The PDA-150 Drive-Away Antenna's precision, accurate reflector surface and dual optic design provides remarkably low sidelobes and excellent cross-polar performance. It has a three axes positioner which provides full antenna rotation and entirely backlash-free in 3 axes.

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 characterized

Key Features

- X, Ku, Ka, DBS Band options are available
- ➤ High EIRP, high performance 1.5m Gregorian offset antenna with dual optics and very low sidelobes
- Carbon-Fiber composite reflector supported with lightweight mount
- High gain and very good cross-polar rejection (> 35 db)
- Integrated DVB-S/S2 & Beacon Receiver
- > De-Ice Systems (Optional)
- Antenna pod is designed to accommodate outdoor HPAs / SSPAs
- > 0,01° pointing accuracy with resolvers at 3 axes
- Manual drive tool kit for emergency situations
- Optional hand-held control unit
- Optional 4G / 5G / LTE supported modem for load balancing and bonding solutions
- Supports OpenAmip







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GENERAL SPECIFICATIONS	
Reflector Diameter	1.5m
Reflector Type	Gregorian Offset
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					
		Ku-Band	Ka-Band	X-Band	
Frequency (GHz)	Tx Rx	13.75 - 14.50 10.70 - 12.75	28.10 - 30.00 18.30 - 20.20	7.90 - 8.40 7.25 - 7.75	
Antenna Gain (±0.2 dBi)	Tx Rx	44,50 @ 14.25 GHz 43.00 @ 11.70 GHz	49.50 @ 29.00 GHz 39.10 @ 19.00 GHz	39.50 @ 8.15 GHz 39.10 @ 7.50 GHz	
Polarization		2 Port Linear (3 Port Optional)	Circular	Circular	
Satellite Operator Compl	Satellite Operator Compliancy Compliant with most of satellite operator requirements			ents	
VSWR		1.3:1	1.3:1	1.119:1	
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		d			

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

ENVIRONMENTAL SPECIFICATIONS			
Temperature	Compliant with MIL-STD-810g Method 501.5 and 502.5	Operational Survival	-30°C to 55°C -40°C to 70°C
Wind Speed	Compliant with ESOG-120	Operational Survival	72 km/h 180 km/h
Rain	Compliant with MIL-STD-810g Method 506.5	Survival in heav	y rainstorm
Humidity	Compliant with MIL-STD-810g Method 507.5	%95 Aggravated	d
Solar Radiation	Compliant with MIL-STD-810g Method 505.5	1120 W/m2 (A1 C	Cycle)
Low Pressure	Compliant with MIL-STD-810g Method 500.5	4500 mt	
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	-40/70 Cyclic	
Icing	Compliant with MIL-STD-810g Method 521.3	Min 37 mm Surv	ival
Acoustics	Compliant with MIL-STD-1472	<6 5 db(A) from	1.5 mt
Electromagnetic Compatibility	Compliant with CE102, CS101, CS114, CS115, CS	116, RE102, RS10	3

Compliances / Certificates









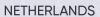




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