

PDA-180 Go Anywhere with High Performance



PDA-180

The PDA-180 provides instant access to satellite communications in C, X, Ku, or Ka Band. It ensures reliable transmission for applications which can be DSNG, disaster relief, emergency communications, networks, etc.

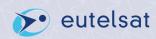
The PDA-180 Drive-Away Antenna's precision, accurate reflector surface and prime focus design provide remarkably low sidelobes and excellent cross-polar rejection performance. It has a three axes positioner which provides full antenna rotation and is entirely backlash-free in elevation, azimuth and polarization axes.

COMPATIBILITY

- MIL-STD-810G Compliant
- MIL-STD-1472 Compliant
- MIL-STD-188-164A Compliant
- ITU-RS-580 Compliant
- ➤ ITU-RS-465-6 Compliant
- EUTELSAT Compliant

Key Features

- C, X, Ku, or Ka Band options are available
- Antenna pod is designed to accommodate 2 x 400W outdoor HPAs / SSPAs
- Carbon-fiber composite reflector supported with lightweight mount
- > Entirely zero-backlash mechanical drive system
- Easy vehicle integration
- Optional beacon tracking
- Optional De-Ice
- Manual drive tool kit for emergency situations
- High gain and very good cross polar rejection (> 35 db)
- One-Button Operation
- 0,01° pointing accuracy with resolvers at 3 axes







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| GENERAL SPECIFICATIONS | |
|------------------------|--|
| Reflector Diameter | 1.8m |
| Reflector Type | Gregorian Offset |
| Operation On-Air Time | ~3 Minutes |
| Antenna Concept | Prime focus antenna with 1.8m elliptical main reflector, folding feed-arm, fixed sub-reflector |

| RF CHARACTERISTIC | | | | | |
|-------------------------------|----------|--|--|--------------------------------------|--|
| | | Ku-Band | Ka-Band | C-Band | |
| Frequency (GHz) | Tx Rx | 13.75 - 14.50 10.70 - 12.75 | 29.00 - 30.00 19.20 - 21.20 | 5.85 - 6.725 3.40 - 4.20 | |
| Antenna Gain (±0.2 dBi) | Tx Rx | 46,50 @ 14.25 GHz 44.20 @ 11.70 GHz | 47.60 - 47.80 GHz 43.90 - 44.50 GHz | 39.50 @ 6.25 GHz 35.40 @ 3.80 GHz | |
| Polarization | | 2 Port Linear (3 Port Optional) | Circular | Circular / Linear | |
| Satellite Operator Compliancy | | Compliant with most of satellite operator requirements | | | |
| VSWR | | 1.3 | | | |
| Cross Polar Isolation | | >35 dB within 1 dB beamwidth | | | |
| Radiation Pattern Comp | liancy | Compliant with MIL-STD-188-164A, ITU - RS-580 and ITU-RS-465-6 | | | |

| 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 | | 360° | 10° to 80° | ± 115° | | | |
| Manual Override Mechanism | | Manual override fo | Manual override for elevation and azimuth 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 hea | avy rainstorm |
| Humidity | Compliant with MIL-STD-810g Method 507.5 | Up to 100% wi | ith condensation |
| Solar Radiation | Compliant with MIL-STD-810g Method 505.5 | | |
| Low Pressure | 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 | | |
| Tempreture Shock | Compliant with MIL-STD-810g Method 503.5 | | |
| lcing | Compliant with MIL-STD-810g Method 521.3 | | |
| Acoustics | Compliant with MIL-STD-1472 | | |

Compliances / Certificates









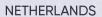




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