PULS® Communications & Technology

# PDA-240

Go Anywhere with High Performance

## PDA-240

The PDA-240 supports manual, auto and one-button functions. It ensures reliable transmission for applications which can be DSNG, disaster relief, emergency communications, networks, etc.

The PDA-240 Drive-Away Antenna's precision, and provides remarkably low sidelobes and excellent cross-polar performance. It has a three axes positioner which provides full antenna rotation and is entirely backlash-free in elevation, azimuth and polarization axes.
Light-weight and highly durable structure and aerodynamic design allows interrupted satellite communication anywhere.

## 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

- Ku, Ka, C Band options are available
- Antenna 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, low side-lobe, high accuracy and very good cross polar rejection (> 35 db) (Ku-Band)
- Optional hand-held control unit

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| GENERAL SPECIFICATIONS | |
|---|---|
| Reflector Diameter | 2.4m |
| Reflector Type | Gregorian Offset |
| Operation On-Air Time | ~3 Minutes |
| Antenna Concept | Gregorian dual offset antenna with 2.4m elliptical carbon-fiber main reflector, folding feed-arm, fixed sub-reflector |

| RF CHARACTERISTIC | | | |
|---|---|---|---|
| | | Ku-Band | C-Band |
| Frequency (GHz) | Tx<br>Rx | 13.75~14.50 GHz<br>10.7~12.75 GHz | 5.85~6.725 GHz<br>3.4~4.26 GHz |
| Antenna Gain (±0.2 dBi) | Tx<br>Rx | 48.8 dBi<br>47.7 dBi | 41.5 dBi<br>37.7 dBi |
| EIRP | | 64.8dBW with 40W BUC<br>68.8dBW with 100W BUC | 67.52dBW with 400W TWTA |
| CPI (On Axis, linear) | | 35dB | 30dB |
| Polarization | | Linear | |
| Satellite Operator Compliancy | | Compliant with most of satellite operator requirements | |
| VSWR | | 1.3 | 1.3 |

| MECHANICAL SPECIFICATIONS | | | |
|---|---|---|---|
| | Azimuth | Elevation | Polarization |
| Drive Rates | 0.1° /S ~3° /S | 0.1° /S ~3° /S | 0.1° /S ~6° /S |
| Antenna Travels | ± 200° | 10°~90° | ± 90° |
| Manual Override Mechanism | Manual override for elevation and azimuth drive system | | |

| ENVIRONMENTAL SPECIFICATIONS | | |
|---|---|---|
| Temperature | Operational<br>Survival | -20°C~+55°C<br>-30°C~+70°C |
| Wind Speed | Operational<br>Survival | 72km/h<br>90km/h |
| Humidity (Relative) | | 0-95% |

Compliances / Certificates

eutelsat TÜRKSAT CE TÜVRheinland® TÜV CERT RoHS COMPLIANT


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