



## 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

## Key Features

- C, Ku, and Ka 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 system
- 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 4G / 5G / LTE supported modem for load balancing and bonding solutions



**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	13.75~14.50 GHz	5.85~6.725 GHz
	Rx	10.7~12.75 GHz	3.4~4.26 GHz
Antenna Gain ( $\pm 0.2$ dBi)	Tx	48.8 dBi	41.5 dBi
	Rx	47.7 dBi	37.7 dBi
EIRP		64.8dBW with 40W BUC 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	-20°C~+55°C		
	Survival	-30°C~+70°C		
Wind Speed	Operational	72km/h	Unstowed	95 km/h
	Survival	90km/h	Stowed	115 km/h
Humidity (Relative)	0~95%			

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