



STANDARD
MIL-STD
810

STANDARD
MIL-STD
461

STANDARD
MIL-STD
188-164

Size:

1.0m

PMA-100-MIL

Rapid-Deployment Anywhere

Designed for rapid tactical deployment, PMA Series is fully operational in minutes with no tools required for assembly or teardown. Its extra-compact, ultra-lightweight architecture enables effortless transportation, while manual hand adjustment provides quick back-up field alignment. Built for demanding operational environments, the rugged pedestal delivers reliable auto pointing.

Instantly Operational

Supporting multiple operating modes, the terminal adapts seamlessly to diverse mission requirements. Multi-band feed compatibility, field-interchangeable RF modules and a modem-agnostic architecture maximize operational flexibility while simplifying upgrades and maintenance. Integrated M&C capabilities provide straightforward control of external modules and system peripherals.

Reliable Network Connections

Advanced algorithms deliver precise satellite acquisition and stable link performance throughout the mission. The built-in Web GUI and ruggedized field interface enable intuitive operation, while passive heatsink cooling eliminates the need for fans, improving reliability. Optimized for high-performance IP networks, VPN services and video streaming in mission-critical applications.

Key Features

- Extra Compact and Fast Deployment
- AC / DC Power
- BB2590 MIL Battery Operation
- Auto - pointing or Assisted Manual Pointing
- Field Changeable Multi Band Feed options
- Ruggedized Display Screen GUI
- Modem Agnostic Integrated M&C
- Fanless Silent IP67 ACU
- Backpack or Trolley Case options
- Toolless Manual Override Mechanism
- Low MTTR
- Optional Spectrum Display



GENERAL SPECIFICATIONS

Reflector Diameter	1.0 m Carbon - Fiber
Antenna Concept	Segmented
Power Supply	120-240 VAC 50/60 Hz
DC Power Input	24 to 48VDC

RF CHARACTERISTIC

	X-Band	Ku-Band	Ka-Band
Frequency (GHz) Tx	790 - 8.40 GHz	13.75 - 14.50 GHz	27.5 - 31.0
Frequency (GHz) Rx	7.25 - 7.75 GHz	10.70 - 12.75 GHz	17.7 - 21.2
Antenna Gain (±0.2 dBi) Tx	≥ 36 dBi	≥ 40.8 dBi	≥ 46.7 dBi
Antenna Gain (±0.2 dBi) Rx	≥ 35.3 dBi	≥ 39.8 dBi	≥ 43.2 dBi
Polarization	Circular	Linear	Circular
Axial Ratio (dB)	≤1.2	≥35 dB (CPI)	≤ 1.2 (Rx) / ≤1.0 (Tx)
Antenna Pattern Compliance	ITU-R S.580-6 and ITU-R S.465-6	ITU-R S.580-6 and ITU-R S.465-6	ITU-R S.580-6 and ITU-R S.465-6

MECHANICAL SPECIFICATIONS

	EL Axis	AZ Axis	POL Axis
Antenna Motion Range	5 - 90°	± 180°	± 90°
Antenna Drive Rate	0.1° /S ~3° /S	0.1° /S ~3° /S	1° /S
Motor	DC Brushless Servo		

ENVIRONMENTAL SPECIFICATIONS

	PMA-100-MIL
Temperature Range Operational	-46°C - +71°C
Wind Speed Operational	72 km/h anchored
Wind Speed Survival	90 km/h anchored
Protection Grade	IP65
Modem Options	Comtech, Teledyne, SkyWan, iDirect, Datum, Gilat, Hughes, Newtec

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Specifications are subject to change.

