



STANDARD
MIL-STD
810

STANDARD
MIL-STD
461

STANDARD
MIL-STD
188-164

Size:

1.0m

PMA-100-MIL

Rapid-Deployment Anywhere

Ready for operation in under 5 minutes, the compact pedestal requires no tools for assembly or teardown. Its lightweight design and manual hand adjustment enable rapid deployment while delivering reliable auto acquisition.

Multiple Operating Modes

The terminal supports multiple operating modes to meet changing mission requirements. Multi-band feeds, field-interchangeable modules and a modem-agnostic architecture provide maximum flexibility with simplified integration and maintenance.

Instantly Operational

Advanced algorithm ensures accurate satellite acquisition and stable connectivity. The built-in Web GUI, ruggedized field UI and integrated M&C functions simplify operation, while fanless heatsink cooling enhances reliability for high-performance IP, VPN and video streaming applications.

Key Features

- Extra Compact and Fast
- AC / DC Power Source acceptable
- 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 Slient IP67 ACU
- Backpack or Trolley Case Options
- Toolless Manual override mechanism





GENERAL SPECIFICATIONS

Reflector Diameter	1.0 m Carbon - Fiber
Reflector Type	Dielectric Back Feed Assembly
Antenna Concept	Segmented
Power Supply	100-240 VAC/50-60 Hz or 36-75 VDC
Power Consumption	<300w

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(@) 8.15 Ghz	≥ 40.8 dBi(@) 14.25 Ghz	≥ 46.7 dBi(@) 29.25 Ghz
Antenna Gain (±0.2 dBi) Rx	≥ 35.3 dBi(@) 7.5 Ghz	≥ 39.8 dBi(@) 12.5Ghz	≥ 43.2 dBi(@)19.45Ghz
VSWR	≤1.5:1	≤1.5:1	≤1.5:1
Polarization	Circular	Linear	Circular
Axial Ratio (dB)	≤1.2	≥35 dB (CPI)	≤ 1.2 (Rx) / ≤1.0 (Tx)
Antenna Pattern Compliancy	ITU-R S.580-6.	ITU-R S.580-6.	ITU-R S.580-6.

MECHANICAL SPECIFICATIONS

	EL Axis	AZ Axis	Polarization
Antenna Motion Range	5 - 90°	± 200°	± 90°
Antenna Drive Rate	0.1° - 3° /s		
Motor	DC Brushless Servo with Brakes		
Weight	≤ 22 Kg without BUC and transport cases		

ENVIRONMENTAL SPECIFICATIONS

	PMA-100-MIL
Temperature Range Operational	-30°C - +55°C
Temperature Range Survival	-40°C - +70°C
Wind Speed Operational	gusting 45 km/h with anchors
Wind Speed Survival	gusting 80 km/h with anchors
Protection Grade	IP65
Solar Radiation	1135W/m2

Specifications are subject to change.

