

STANDARD
MIL-STD
810G

STANDARD
MIL-STD
461

STANDARD
MIL-STD
188-164A

Size:

1.0m

PMA-100-MA

Rapid Manual Deployment

The PMA-100 is a manual, lightweight man-pack satellite terminal. Its 1.0m high-performance reflector is designed for quick, tool-free assembly and alignment by a single operator in just minutes, providing unparalleled mobility and setup speed in the field.

Precision Manual Pointing with Intelligent Guidance

Despite its manual operation, precision is assured. When used with the PALS Point-Sat system, the terminal guides the operator with clear visual feedback for real-time satellite pointing. It automatically detects beacon and DVB-S signals, enabling fast, accurate manual satellite lock.

Superior Manual Performance

The terminal's advanced feed structure delivers exceptional RF performance with high gain and low side lobes. It seamlessly integrates with the rugged PSM-1200 modem, compatible with major brands like iDirect, Hughes, and Viasat. This combination ensures reliable, secure, mission-critical communications for commercial and defense operations, all within a robust,

Key Features

- X, Ku, Ka Bands available
- Integrated Sat-Finder and Modem Box
- Integrated / External modem (iDirect, Comtech, Newtech, Hughes)
- Carbon-fiber reflector with an accuracy of R.M.S 0.25mm
- Supports Wide Range BUCs (from 6W to 40W)
- Powered by Mains or Battery
- Supports OpenAmip
- Encryption Option
- Optional Battery
- Optional 4G/ SG /LTE supported modem for load balancing and bonding



TECHNICAL SPECIFICATIONS / PMA-100-MA Scan the QR code for more information.

GENERAL SPECIFICATIONS

Reflector Diameter
Reflector Type
Modem Interface
Modem Support
Power Input (Modem Box)

PMA-100-MA

1.0m
Exchangeable 7 Segments
Ethernet, OpenAMIP
iDirect, Newtec, Gilat, Datum, Comtech, THISS etc.
Battery 24V DC, AC 100- 230 V

RF CHARACTERISTIC

Frequency (GHz) Tx
Frequency (GHz) Rx
Gain (dBi) Tx
Gain (dBi) Rx
Tx/ Rx Isolation (dB)
Rx/Tx Isolation (dB)
Cross Polarization (dB)
Radiation Pattern Compliancy

Ku-Band

13.75~14.50
10.70~12.75
41.50
40.20
85
30
35
Compliant with MIL-STD-188-164A, ITU - RS-580 and ITU-RS-465-6

Ka-Band

27.5~31.0
17.7~20.2
47.60
44.30
85
30
1.5 (axial ratio)

MECHANICAL SPECIFICATIONS

Motion Range
Backpack Size
Backpack Weight
Weight

Azimuth

0~360°
710x500x450mm
≤ 4.5kg
Antenna ≤ 13kg

Elevation

0~90°
Modem Box: ≤ 3kg

Polarization

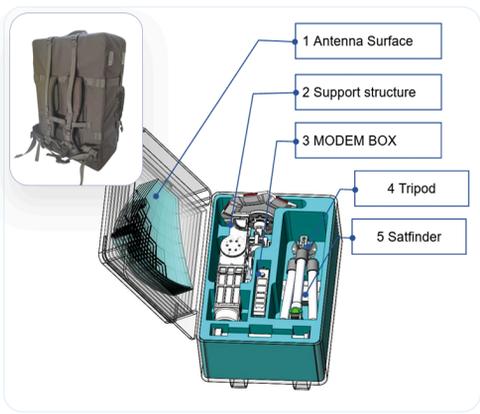
- 120~ +120°
Pointsat: ≤0.5kg

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational
Protection Grade
Wind Speed Operational
Wind Speed Survival
Humidity (Relative)

PMA-100-MA

-40~+60°C
IP65
≤50 km/h (weight balanced) ≤65 km/h (gusted)
120 km/h (optional 150 km/h)
0 to 100% @ 50°C



Specifications are subject to change.