



Size:

1.0m

PMA-100-SPL

Rapid Deployment, Anywhere

The Man-Pack type PMA-100-SPL's advanced feed structure delivers high gain, low side lobes, and exceptional RF performance. Available in various frequency bands, it's equipped with GPS, position detection, polarization adjustment, and a servo drive integrated.

Truly Portable, Instantly Operational

The PMA-100-SPL fits into an IATA-compliant backpack, easily carried by a single user. Deploy within minutes and go live instantly—no additional tools needed. Whether you're racing to a breaking news scene or establishing communications in remote terrain.

Mission-Critical Communications

Ideal for broadcasting, corporate networks, military operations, and emergency communications, the PMA-100-SPL thrives in challenging locations—including hills and mountains. Its rugged design ensures reliable performance wherever duty calls. From natural disasters to remote news gathering, this antenna puts reliable satellite communications in the hands of those who need it most.

Key Features

- X, Ku, and Ka Bands
- Carbon-fiber reflector with an accuracy of R.M.S 0.25mm
- 3-Axes simultaneous motorisation
- Optional 4G / 5G/ LTE supported modem for load balancing and bonding solutions
- Built-in Wi-Fi and a Web-Based User Interface
- Supports Wide Range BUCs (from 1W to 40W)
- Powered by Mains or Battery
- Integrated / External modem (iDirect, Comtech, Newtech, Hughes)
- Supports OpenAmp



Scan the QR code for more information.

TECHNICAL SPECIFICATIONS / PMA-100-SPL

GENERAL SPECIFICATIONS

Reflector Diameter
Antenna Type
GPS
Third Axis Rotation Range

PMA-100-SPL

1.0m
Circular symmetric reflector with center feed
GPS Module
±7°

RF CHARACTERISTIC

Frequency (GHz) Tx
Frequency (GHz) Rx
Gain (dBi) (±0.2 dBi) Tx
Gain (dBi) (±0.2 dBi) Rx
Tx/ Rx Isolation (dB)
Rx/ Tx Isolation (dB)
Cross Polarization (dB) Tx
Cross Polarization (dB) Rx
Polarization
VSWR Tx
Antenna Pattern Compliancy
Pointing Accuracy

X-Band

7.9 ~ 8.4
7.25 ~ 7.75
36.4
35.7
85
40
1.0
1.5 (Axial Ratio)
RHCP/LHCP (2 Ports)
1.30:1
ITU-R S.580-6 and ITU-R S.465-6
<0.2°

Ku-Band

13.75 ~ 14.50
10.70 ~ 12.75
41.4
39.3
85
40
35
-
Linear H/V (2 Ports)
1.30:1

Ka-Band

27.50 ~ 30.00
17.70 ~ 21.20
47.8 (@30 Ghz)
43.8 (@21.2Ghz)
85
40
1.0
1.5 (Axial Ratio)
RHCP/LHCP (2 Ports)
1.30:1

MECHANICAL/ POWER SPEC.

Antenna Motion Range
Antenna Travels
DC Input
DC Output
Antenna Weight
Backpack Size

Azimuth

10°/s (Variable)
+ 220°
10-72 VDC @ 15 ADC (max) (External: Hand generator, Solar, AC and Vehicle)
24VDC @ 8 ADC
31kg (only antenna excluding package)
820x700x470mm

Elevation

10°/s (Variable)
0°~90°

Polarization

3°/S (Variable)
± 90° (Ku Model Only)

ENVIRONMENTAL SPECIFICATIONS

Temperature Range Operational
Temperature Range Survival
Wind Speed Operational
Wind Speed Survival
Humidity (Relative)
Altitude Above Sea Level
Protection

PMA-100-SPL

-30 ~ +60°C
-40 ~ +70°C
72km/h (With weight balance)
120km/h (With reinforcement weight)
0-98%
≤5000m
IP65

Specifications are subject to change.

