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Peplink Mobility 82G, 8xLTE/5G, 2 x WiFi, 1xGPS, 600-6000MHz, IP67, SMA, Black, 6.5ft / 2m

SKU
ANT-MB-82G-S-B-6
MPN
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Description

The Peplink Mobility 82G is a robust multi-band antenna designed for high-performance connectivity in challenging environments. Supporting 8x LTE/5G MIMO, it enhances cellular signal reception, making it ideal for mobile or remote applications requiring reliable internet access. With a broad frequency range of 600-6000 MHz, it ensures compatibility with various network providers and technologies, including emerging 5G networks. The antenna integrates two WiFi inputs and a GPS module, providing comprehensive wireless and location capabilities for vehicles, maritime, or industrial setups.

Constructed from durable polycarbonate, the Mobility 82G is built to withstand harsh conditions, as evidenced by its IP67 rating and compliance with MIL-STD-810 for environmental durability. This makes it suitable for outdoor installations where exposure to dust and water is a concern. The 8x8 MIMO configuration maximises data throughput and connection...

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Peplink

Peplink makes connectivity reliable. Peplink’s ecosystem, SpeedFusion technology and SD-WAN routers have been deployed around the world, helping thousands of customers from many industries increase bandwidth, enhance Internet reliability, reduce connectivity cost, or enable new deployment possibilities.

Founded by Alex Chan in Hong Kong in 2006, today Peplink is based in Mountain View, California.

RF Specification

Cellular

Start Frequency
617 MHz
Stop Frequency
6000 MHz
Max. Input Power
10 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	RG-58	1981.2 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth

617 MHz	960 MHz	5.4 dBi	< 2:1	360°
1400 MHz	2700 MHz	7.5 dBi	< 2:1	360°
3400 MHz	4200 MHz	8.1 dBi	< 2:1	360°
5000 MHz	6000 MHz	8.7 dBi	< 2:1	360°

WiFi

Start Frequency
2400 MHz
Stop Frequency
6000 MHz
Max. Input Power
10 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	RP-SMA Male	Straight	RG-58	1981.2 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR	Azimuth
2400 MHz	2500 MHz	6 dBi	< 2:1	360°
5000 MHz	6000 MHz	7.4 dBi	< 2:1	360°

GPS

Start Frequency
1575 MHz
Stop Frequency
1602 MHz
Input Impedance
50 Ω
Polarisation
Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

LNA Gain

29 dBic
Power Consumption
< 6 mW
Max. Operating Voltage
3.3 V
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	RG-174	1981.2 mm

Physical Specification

Subtype
Fin / Stud / Combo
Input Ports
3
MIMO
8x8 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
80 °C
Dimensions
62.5 x 427.4 (H x Dia)
Ingress Protection
IP67
Materials
Polycarbonate (PC)
Compliance/Certifications
RoHS
Mechanical Compliance
MIL-STD-810: Environmental Durability

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