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

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

The Peplink Mobility 82G is a high-performance antenna designed for robust and versatile connectivity in demanding environments. This device supports 8xLTE/5G and dual WiFi connections, making it ideal for applications that require reliable mobile network access, such as fleet management, public safety, and remote monitoring. With its wide frequency range of 600 to 6000 MHz, it ensures seamless communication across various cellular and WiFi bands.

Engineered with IP67-rated polycarbonate housing, the Mobility 82G is built to withstand harsh outdoor conditions, offering protection against dust and water ingress. The antenna's 8x8 MIMO configuration enhances data throughput and signal stability, crucial for maintaining high-speed connections in mobile or fixed deployments. Additionally, it features an integrated GPS element, providing accurate location tracking essential for navigation and fleet applications.

The antenna's SMA and RP-SMA...

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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
600 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	L-200	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR

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

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	L-200	2000 mm

Frequency Test Data

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

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
< 8 mW
Min. Operating Voltage
3.3 V
Max. Operating Voltage
3.3 V
RF Connectors

Ports	RF Interface	Body Shape	Cable Series	Length
1	SMA Male	Straight	RG-174	2000 mm

Physical Specification

Subtype
Panel / Sector
Input Ports
11
MIMO
8x8 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
80 °C
Dimensions
62.5 x 427.4 mm (H x Dia)
Ingress Protection
IP67
Materials
Polycarbonate (PC)
Compliance/Certifications
RoHS
Mechanical Compliance
IEC 60529: IP Code
,
MIL-STD-810: Environmental Durability

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