

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: ANT-MB-82G-S-W-6

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	Polarisation:	Linear
Stop Frequency:	6000 MHz	Input Impedance:	50
Max. Input Power:	10 W		

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	Polarisation:	Linear
Stop Frequency:	6000 MHz	Input Impedance:	50
Max. Input Power:	10 W		

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	Input Impedance:	50
Stop Frequency:	1602 MHz	Polarisation:	Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

LNA Gain:	29 dBic	Min. Operating Voltage:	3.3 V
Power Consumption:	< 8 mW	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	Dimensions:	62.5 x 427.4 mm (H x Dia)
Input Ports:	11	Ingress Protection:	IP67
MIMO:	8x8 MIMO	Materials:	Polycarbonate (PC)
Min. Operating Temperature:	-40 °C	Compliance/Certifications:	RoHS
Max. Operating Temperature:	80 °C	Mechanical Compliance:	IEC 60529: IP Code
		MIL-STD-810: Environmental Durability	

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