

# Peplink Mobility 42G, 7-in-1 5G Ready cellular, 4xLTE, 2 x Wifi, 1xGPS, Black, 2m cable, SMA

SKU: ANT-MB-42G-S-B-6

MPN: ANT-MB-42G-S-B-6

## Description

The Peplink Mobility 42G is a versatile 7-in-1 antenna system designed to enhance connectivity across various applications. This robust antenna is 5G ready, making it ideal for future-proofing mobile communications in public safety, transportation, and mobile healthcare sectors. It combines four LTE antennas, two Wi-Fi antennas, and one GPS antenna, enabling seamless communication over a wide frequency range. The unit operates efficiently in harsh environments, with an IP68 ingress protection rating and a durable polycarbonate construction that withstands temperatures from -40°C to 80°C.

The 42G supports 4x4 MIMO technology, which enhances data throughput and reliability, crucial for mission-critical operations. Its omni-directional design allows for consistent connectivity regardless of direction, making it suitable for mobile and stationary deployments. With a frequency range covering 617 MHz to 6000 MHz, it offers impressive peak...

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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	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	4.4 dBi	< 2.5:1
1710 MHz	2700 MHz	7.8 dBi	< 2.5:1
3400 MHz	4200 MHz	7.9 dBi	< 2.5:1
5000 MHz	6000 MHz	8.2 dBi	< 2.5:1

## Wi-Fi

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	5 dBi	< 2.5:1
5000 MHz	6000 MHz	7.5 dBi	< 2.5:1

## GPS

Start Frequency:	1561 MHz	Input Impedance:	50
Stop Frequency:	1602 MHz	Polarisation:	Right Hand Circular (RHCP)

## Low Noise Amplifier (LNA)

LNA Gain:	28 dBic	Min. Operating Voltage:	3.3 V
Noise Figure:	≤ 1.5 dB	Max. Operating Voltage:	3.3 V
Power Consumption:	< 8.5 mW		

## RF Connectors

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

# Physical Specification

Subtype:	Fin / Stud / Combo	Dimensions:	58 x 208 (H x Dia)
Input Ports:	7	Ingress Protection:	IP68
MIMO:	4x4 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-202: Corrosion	
		MIL-STD-810: Environmental Durability	

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