

# Peplink Mobility 42G (Puma 421), 7-in-1 5G ready, 4 LTE, 2 Wifi, 1 GPS, OP68, QMA, White, 0.3M

SKU: ANT-MB-42G-Q-W-1

MPN: ANT-MB-42G-Q-W-1

## Description

The Peplink Mobility 42G (Puma 421) is a versatile 7-in-1 antenna system designed for robust wireless connectivity in demanding environments. It is 5G-ready and features four LTE, two Wi-Fi, and one GPS input, making it ideal for various applications such as public safety, transportation, and mobile healthcare. With its 4x4 MIMO configuration, the antenna ensures enhanced data throughput and reliable connectivity. The wide frequency range from 617 MHz to 6000 MHz supports both LTE and 5G networks, enabling seamless communication in diverse conditions.

The antenna's durable construction, featuring IP68-rated polycarbonate housing, provides excellent protection against dust and water, making it suitable for outdoor and harsh environments. It operates effectively within a temperature range of -40 °C to 80 °C, ensuring performance stability in extreme weather conditions. The GPS component offers accurate positioning with a right-hand...

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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	Length
1	QMA Male	Straight	300 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	Length
1	QMA Male	Straight	300 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	QMA Male	Straight	RG-174	300 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-810: Environmental Durability	

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