

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

SKU: ANT-MB-42G-Q-W-6
MPN: ANT-MB-42G-Q-W-6

Description

The Peplink Mobility 42G (Puma 421) is a versatile, high-performance antenna designed for robust connectivity across multiple platforms. It is particularly effective in applications requiring reliable communication in demanding environments, such as public safety, mobile healthcare, and transportation. This 7-in-1 antenna is 5G-ready, supporting 4 LTE connections, 2 Wi-Fi channels, and GPS functionality, ensuring comprehensive coverage and enhanced data throughput.

With its 4x4 MIMO capability, the Mobility 42G offers optimal signal reception and transmission, crucial for maintaining stable connectivity in mobile or remote settings. It operates efficiently across a wide frequency range of 617 MHz to 6000 MHz, accommodating both LTE and emerging 5G networks. The antenna's design incorporates C-band support, providing exceptional performance in the 3.3 to 4.2 GHz range, which is vital for high-speed data applications.

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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	2000 mm
1	QMA Male	Straight	2000 mm
1	QMA Male	Straight	2000 mm
1	QMA Male	Straight	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	Length
1	RP-SMA Male	Straight	2000 mm
1	RP-SMA Male	Straight	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		

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

RF Connectors

Ports	RF Interface	Body Shape	Length
1	QMA Male	Straight	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-810: Environmental Durability	

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