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

SKU
ANT-MB-42G-Q-B-6
MPN
ANT-MB-42G-Q-B-6

Description

The Peplink Mobility 42G (Puma 421) is a versatile, high-performance antenna system designed for robust mobile connectivity. This 7-in-1 solution is built to optimise 5G and LTE performance, making it ideal for applications in public safety, mobile healthcare, and transportation. It features an omni-directional 4x4 MIMO configuration that ensures superior signal reception and coverage across a wide frequency range of 600-6000 MHz. The system includes dual-band 2x2 MIMO Wi-Fi antennas, capable of operating at both 2.4 GHz and 5 GHz, providing reliable and high-speed internet access.

The Puma 421 is also equipped with a dedicated GPS antenna featuring right-hand circular polarization, ensuring precise location tracking and navigation. Its rugged construction, rated at IP68, offers excellent resistance to dust and water, making it suitable for harsh environments. The unit operates efficiently in temperatures ranging from -40 °C to 80 °C...

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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 Port

Start Frequency
617 MHz
Stop Frequency
6000 MHz
Max. Input Power
10 W
Polarisation
Linear
Input Impedance
50 Ω
RF Connectors

Ports	RF Interface	Body Shape	Length
1	QMA Male	Straight	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR

617 MHz	960 MHz	4.4 dBi	< 2:1
1710 MHz	2700 MHz	7.8 dBi	< 2:1
3400 MHz	4200 MHz	7.9 dBi	< 2:1
5000 MHz	6000 MHz	8.2 dBi	< 2:1

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Wi-Fi Port

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	Length
1	QMA Male	Straight	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR
2400 MHz	2500 MHz	5 dBi	< 2:1
5000 MHz	6000 MHz	7.5 dBi	< 2:1

Wi-Fi Port

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	Length
1	QMA Male	Straight	2000 mm

Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR
2400 MHz	2500 MHz	5 dBi	< 2:1
5000 MHz	6000 MHz	7.5 dBi	< 2:1

GPS

Start Frequency

1561 MHz

Stop Frequency

1602 MHz

Input Impedance
50 Ω
Polarisation
Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

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

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

Physical Specification

Subtype
Fin / Stud / Combo
Input Ports
6
MIMO
4x4 MIMO
Min. Operating Temperature
-40 °C
Max. Operating Temperature
80 °C
Dimensions
58 x 208 (H x Dia)
Ingress Protection
IP68
Materials
Polycarbonate (PC)
Compliance/Certifications

RoHS
Mechanical Compliance
IEC 60529: IP Code
,
MIL-STD-810: Environmental Durability

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