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

SKU
ANT-MB-42G-Q-B-1
MPN
ANT-MB-42G-Q-B-1

Description

The Peplink Mobility 42G (Puma 421) is a versatile, high-performance antenna system designed for robust connectivity in demanding environments. It combines seven antennas into one compact unit, making it ideal for applications requiring reliable 5G, LTE, Wi-Fi, and GPS connectivity. The unit supports 4x4 MIMO with four LTE antennas, enhancing data throughput and ensuring stable cellular connections. Additionally, it includes two Wi-Fi antennas, supporting frequencies from 2400 MHz to 6000 MHz, catering to dual-band Wi-Fi applications with enhanced signal reception.

The integrated GPS antenna offers precise location tracking, crucial for fleet management and navigation systems. Its high gain and wide frequency range, from 617 MHz to 6000 MHz, provide exceptional performance across various cellular bands, including 5G. The antenna is housed in a durable polycarbonate enclosure with an IP68 rating, ensuring resistance to dust and water...

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

Ports	RF Interface	Body Shape	Length
1	RP-SMA 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
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
Max. Operating Voltage
3.3 V
RF Connectors

Ports	RF Interface	Body Shape	Length
1	QMA Male	Straight	300 mm

Physical Specification

Subtype
Fin / Stud / Combo
Input Ports
7
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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