

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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RF Specification

Cellular



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.

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 | 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 Input Impedance: 50

Stop Frequency: 1602 MHz Polarisation: Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

| | | | |
|-----------|---------|-------------------------|-------|
| LNA Gain: | 28 dBic | Max. Operating Voltage: | 3.3 V |
|-----------|---------|-------------------------|-------|

| | |
|---------------|---------------|
| Noise Figure: | ≤ 1.5 dB |
|---------------|---------------|

RF Connectors

| Ports | RF Interface | Body Shape | Length |
|-------|--------------|------------|--------|
| 1 | QMA Male | Straight | 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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