

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.

Constructed from...

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RF Specification



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 | 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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