

Peplink Mobility 82G Antenna , 8xLTE/5G, 2 x Wi-Fi, 1xGPS, 600-6000MHz, IP67, QMA, White, 6.5ft / 2m

SKU: ANT-MB-82G-Q-W-6
MPN: ANT-MB-82G-Q-W-6

Description

The Peplink Mobility 82G Antenna is a high-performance multi-band antenna designed for robust connectivity across various network environments. It supports 8x LTE/5G, enhancing mobile network performance by utilising 8x8 MIMO technology for improved data throughput and signal reliability. This makes it ideal for applications in transportation, remote locations, or any setting requiring stable and fast wireless connectivity. Additionally, it includes two Wi-Fi antennas, offering seamless integration with existing wireless networks for broader coverage and increased network capacity.

The antenna operates over a wide frequency range of 600 to 6000 MHz, ensuring compatibility with a multitude of cellular and Wi-Fi bands. This versatility is complemented by an IP67 rating, providing excellent protection against dust and water ingress, making it suitable for outdoor and harsh environment installations. The inclusion of a GPS antenna further...

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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: | 600 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 |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Azimuth |
|-------------|------------|-----------|-------|---------|
| 617 MHz | 960 MHz | 5.4 dBi | < 2:1 | 360° |
| 1400 MHz | 2700 MHz | 7.5 dBi | < 2:1 | 360° |
| 3400 MHz | 4200 MHz | 8.1 dBi | < 2:1 | 360° |
| 5000 MHz | 6000 MHz | 8.7 dBi | < 2:1 | 360° |

WiFi

| | | | |
|-------------------|----------|------------------|--------|
| 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 |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Azimuth |
|-------------|------------|-----------|-------|---------|
| 2400 MHz | 2500 MHz | 6 dBi | < 2:1 | 360° |
| 5000 MHz | 6000 MHz | 7.4 dBi | < 2:1 | 360° |

GPS

| | | | |
|------------------|----------|------------------|----------------------------|
| Start Frequency: | 1575 MHz | Input Impedance: | 50 |
| Stop Frequency: | 1602 MHz | Polarisation: | Right Hand Circular (RHCP) |

Low Noise Amplifier (LNA)

| | |
|--------------------|---------|
| LNA Gain: | 29 dBic |
| Power Consumption: | < 6 mW |

RF Connectors

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

Physical Specification

| | | | |
|-----------------------------|--------------------|----------------------------|------------------------|
| Subtype: | Fin / Stud / Combo | Dimensions: | 62.5 x 427.4 (H x Dia) |
| Input Ports: | 11 | Ingress Protection: | IP67 |
| MIMO: | 8x8 MIMO | Materials: | Polycarbonate (PC) |
| Min. Operating Temperature: | -40 °C | Compliance/Certifications: | RoHS |
| Max. Operating Temperature: | 80 °C | | |

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