

# Peplink Mobility 82G, 8xLTE/5G, 2 x WiFi, 1xGPS, 600-6000MHz, IP67, SMA, White, 6.5ft / 2m

SKU: ANT-MB-82G-S-W-6

MPN: ANT-MB-82G-S-W-6

## Description

The Peplink Mobility 82G is a high-performance antenna designed for robust and versatile connectivity in demanding environments. This device supports 8xLTE/5G and dual WiFi connections, making it ideal for applications that require reliable mobile network access, such as fleet management, public safety, and remote monitoring. With its wide frequency range of 600 to 6000 MHz, it ensures seamless communication across various cellular and WiFi bands.

Engineered with IP67-rated polycarbonate housing, the Mobility 82G is built to withstand harsh outdoor conditions, offering protection against dust and water ingress. The antenna's 8x8 MIMO configuration enhances data throughput and signal stability, crucial for maintaining high-speed connections in mobile or fixed deployments. Additionally, it features an integrated GPS element, providing accurate location tracking essential for navigation and fleet applications.

The antenna's SMA and RP-SMA...

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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 | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 1     | SMA Male     | Straight   | L-200        | 2000 mm |

## Frequency Test Data

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

## 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 | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 1     | RP-SMA Male  | Straight   | L-200        | 2000 mm |

## Frequency Test Data

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

## 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 | Min. Operating Voltage: | 3.3 V |
| Power Consumption: | < 8 mW  | Max. Operating Voltage: | 3.3 V |

## RF Connectors

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

# Physical Specification

|                             |                |                                       |                           |
|-----------------------------|----------------|---------------------------------------|---------------------------|
| Subtype:                    | Panel / Sector | Dimensions:                           | 62.5 x 427.4 mm (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          | Mechanical Compliance:                | IEC 60529: IP Code        |
|                             |                | MIL-STD-810: Environmental Durability |                           |

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