

# Peplink Mobility 42G 7-in-1 5G Ready 4x LTE, 2x WiFi, 1x GPS 600-6000MHz IP68, SMA, White, 16ft / 4.8m

SKU: ANT-MB-42G-S-W-16

MPN: ANT-MB-42G-S-W-16

## Description

The Peplink Mobility 42G 7-in-1 antenna is a robust solution designed for versatile connectivity applications, particularly in challenging environments. This antenna is engineered to support 5G and LTE networks, leveraging its 4x4 MIMO configuration to enhance data throughput and signal stability. With its expansive frequency range of 600-6000 MHz, it is well-suited for high-speed data communication in various settings such as public safety, mobile healthcare, and transportation.

The antenna also integrates dual WiFi elements, providing 2x2 MIMO capability across both 2.4GHz and 5GHz bands, ensuring reliable wireless connectivity. Additionally, the GPS element with right-hand circular polarisation enhances location accuracy, beneficial for navigation and tracking applications.

Its durable IP68-rated enclosure ensures protection against dust and water ingress, making it ideal for outdoor or mobile installations. The antenna's low-profile...

[Read More](#)



## 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  | Polarisation:    | Linear |
| Stop Frequency:   | 6000 MHz | Input Impedance: | 50     |
| Max. Input Power: | 10 W     |                  |        |

## RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 4     | QMA Male     | Straight   | L-200        | 4800 mm |

## Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR    | Azimuth |
|-------------|------------|-----------|---------|---------|
| 617 MHz     | 960 MHz    | 4.4 dBi   | < 2.5:1 | 360°    |
| 1710 MHz    | 2700 MHz   | 7.8 dBi   | < 2.5:1 | 360°    |
| 3400 MHz    | 4200 MHz   | 7.9 dBi   | < 2.5:1 | 360°    |
| 5000 MHz    | 6000 MHz   | 8.2 dBi   | < 2.5:1 | 360°    |

## 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 | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 2     | RP-SMA Male  | Straight   | L-200        | 4800 mm |

## Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR    | Azimuth |
|-------------|------------|-----------|---------|---------|
| 2400 MHz    | 2500 MHz   | 5 dBi     | < 2.5:1 | 360°    |
| 5000 MHz    | 6000 MHz   | 7.5 dBi   | < 2.5:1 | 360°    |

## 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 |                         |       |
| Power Consumption: | < 8.5 mW |                         |       |

## RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 1     | QMA Male     | Straight   | RG-174       | 4800 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             | Mounting:                  | Stud / Bulkhead / Panel, Wall / Vertical Surface, Pole 25 mm |
| Max. Operating Temperature: | 80 °C              | Compliance/Certifications: | RoHS   |
|                             |                    | Mechanical Compliance:     | MIL-STD-202: Corrosion                                       |

Disclaimer: Although care has been taken to ensure the accuracy, completeness and reliability of the information provided, Powertec assumes no responsibility therefore. The user of the information agrees that the information is subject to change without notice. Powertec assumes no responsibility for the consequences of use of such information, nor for any infringement of third party intellectual property rights which may result from its use. IN NO EVENT SHALL POWERTEC BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, OR INCIDENTAL DAMAGE RESULTING FROM, ARISING OUT OF OR IN CONNECTION WITH THE USE OF THE INFORMATION.

