

# Peplink IoT 20G, 2xLTE/5G, 1xGPS 600-6000MHz, IP66, SMA, White, 16 ft / 5m

SKU: ANT-IOT-20G-S-W-16

MPN: ANT-IOT-20G-S-W-16

## Description

The Peplink IoT 20G is a high-performance antenna designed to enhance connectivity for IoT applications. It supports dual LTE/5G connectivity and a GPS receiver, making it ideal for remote site operations, public safety, and mission-critical communications. Operating within a wide frequency range of 600-6000 MHz, this antenna delivers robust performance across multiple bands. Its 2x2 MIMO configuration ensures improved data throughput and reliability, which is essential for applications requiring stable and fast connections.

The IoT 20G features an IP66-rated enclosure, providing excellent protection against dust and water, making it suitable for outdoor installations. Its polycarbonate construction enhances durability, while the SMA connectors ensure secure and efficient connections. The antenna's peak gain varies across bands, with a maximum of 10.2 dBi, contributing to superior signal strength and coverage.

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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

## Port 1: LTE/5G

|                   |          |                  |        |
|-------------------|----------|------------------|--------|
| Start Frequency:  | 617 MHz  | Polarisation:    | Linear |
| Stop Frequency:   | 6000 MHz | Input Impedance: | 50     |
| Max. Input Power: | 5 W      |                  |        |

### RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 1     | SMA Male     | Straight   | L-200        | 5000 mm |

### Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR    |
|-------------|------------|-----------|---------|
| 617 MHz     | 960 MHz    | 6.4 dBi   | < 2.5:1 |
| 1710 MHz    | 2700 MHz   | 10.2 dBi  | < 2.5:1 |
| 3400 MHz    | 4200 MHz   | 7.9 dBi   | < 2.5:1 |
| 4900 MHz    | 6000 MHz   | 7 dBi     | < 2.5:1 |

## Port 2: LTE/5G

|                   |          |                  |        |
|-------------------|----------|------------------|--------|
| Start Frequency:  | 617 MHz  | Polarisation:    | Linear |
| Stop Frequency:   | 6000 MHz | Input Impedance: | 50     |
| Max. Input Power: | 5 W      |                  |        |

### RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 1     | SMA Male     | Straight   | L-200        | 5000 mm |

# Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR    |
|-------------|------------|-----------|---------|
| 617 MHz     | 960 MHz    | 6.4 dBi   | < 2.5:1 |
| 1710 MHz    | 2700 MHz   | 10.2 dBi  | < 2.5:1 |
| 3400 MHz    | 4200 MHz   | 7.9 dBi   | < 2.5:1 |
| 4900 MHz    | 6000 MHz   | 7 dBi     | < 2.5:1 |

## 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 | Max. Operating Voltage: | 3.3 V |
|-----------|---------|-------------------------|-------|

## RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length  |
|-------|--------------|------------|--------------|---------|
| 1     | SMA Male     | Straight   | RG-174       | 5000 mm |

# Physical Specification

|                             |                |                            |   |
|-----------------------------|----------------|----------------------------|---|
| Subtype:                    | Panel / Sector | Dimensions:                | 12.81" x 11.86" x 3.03" (325.3 x 301.3 x 77 mm) |
| Input Ports:                | 3              | Ingress Protection:        | IP66  |
| MIMO:                       | 2x2 MIMO       | Materials:                 | Polycarbonate (PC)                              |
| Min. Operating Temperature: | -40 °C         | Compliance/Certifications: | RoHS  |
| Max. Operating Temperature: | 80 °C          | Mechanical Compliance:     | IEC 60529: IP Code                              |

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