Powertec Wireless Technology
ABN: 42 082 948 463
PO Box 1034, Ashmore City
Queensland, Australia, 4214
sales@powertec.com.au
1300 769 378

# 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.

With a straightforward...

Read More

# RF Specification

## Port 1: LTE/5G

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

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.