

Peplink ANT-MB-22G-Q-B-1 Mobility 22G (Puma 221), 2xLTE, 2x WiFi, 1xGPS, 600-6000MHz, IP68, QMA, Black, 1 ft / 0.3m

SKU: PUMA-221-Q-B-1

MPN: ANT-MB-22G-Q-B-1

Description

The Peplink Mobility 22G (Puma 221) is a versatile antenna system designed for robust connectivity across various mobile and remote applications. It integrates 2x2 MIMO LTE and WiFi antennas, alongside a GPS receiver, making it ideal for vehicles, maritime environments, and remote installations where reliable communication is essential. Operating across a broad frequency range of 600-6000 MHz, it ensures strong cellular and WiFi signals for seamless data transmission and internet access.

Constructed with durable ABS plastic and polycarbonate, the antenna is IP68 rated, offering excellent resistance to dust and water ingress, ensuring reliable performance in harsh environmental conditions. Its compact design allows for easy installation on various surfaces, making it perfect for outdoor and mobile deployments.

The antenna supports a linear polarisation with a peak gain of up to 6.0 dBi, enhancing signal strength and coverage. Its QMA...

[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

Cable 1: 4G-5G

| | | | |
|-------------------|----------|------------------|--------|
| 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 |
|-------|--------------|------------|--------------|--------|
| 1 | QMA Male | Straight | L-200 | 300 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Azimuth |
|-------------|------------|-----------|---------|---------|
| 617 MHz | 960 MHz | 2 dBi | < 2.5:1 | 360° |
| 1710 MHz | 2700 MHz | 5 dBi | < 2.5:1 | 360° |
| 3400 MHz | 4200 MHz | 5.6 dBi | < 2.5:1 | 360° |
| 5000 MHz | 6000 MHz | 6 dBi | < 2.5:1 | 360° |

Cable 2: 4G-5G

| | | | |
|-------------------|----------|------------------|--------|
| 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 |
|-------|--------------|------------|--------------|--------|
| 1 | QMA Male | Straight | L-200 | 300 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Azimuth |
|-------------|------------|-----------|---------|---------|
| 617 MHz | 960 MHz | 2 dBi | < 2.5:1 | 360° |
| 1710 MHz | 2700 MHz | 5 dBi | < 2.5:1 | 360° |
| 3400 MHz | 4200 MHz | 5.6 dBi | < 2.5:1 | 360° |
| 5000 MHz | 6000 MHz | 6 dBi | < 2.5:1 | 360° |

Cable 3: 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 | QMA Male | Straight | L-200 | 300 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Azimuth |
|-------------|------------|-----------|---------|---------|
| 2400 MHz | 2500 MHz | 4.8 dBi | < 2.5:1 | 360° |
| 5000 MHz | 6000 MHz | 7.4 dBi | < 2.5:1 | 360° |

Cable 4: GPS

| | | | |
|------------------|----------|------------------|----------------------------|
| Gain (Zenith): | 1.6 dBic | Input Impedance: | 50 |
| Start Frequency: | 1561 MHz | Polarisation: | Right Hand Circular (RHCP) |
| Stop Frequency: | 1602 MHz | | |

Low Noise Amplifier (LNA)

| | | | |
|--------------------|----------|-------------------------|-------|
| LNA Gain: | 28 dBic | Min. Operating Voltage: | 3.3 V |
| Noise Figure: | ≤ 1.5 dB | Max. Operating Voltage: | 3.3 V |
| Power Consumption: | < 8.5 mW | | |

RF Connectors

| Ports | RF Interface | Body Shape | Cable Series | Length |
|-------|--------------|------------|--------------|--------|
| 1 | QMA Male | Straight | RG-174 | 300 mm |

Physical Specification

| | | | |
|-----------------------------|--------------------|----------------------------|---------------------------------|
| Subtype: | Fin / Stud / Combo | Dimensions: | 36 x 130 (H x Dia) |
| Input Ports: | 5 | Ingress Protection: | IP68 |
| MIMO: | 2x2 MIMO | Materials: | ABS Plastic, Polycarbonate (PC) |
| Min. Operating Temperature: | -40 °C | Compliance/Certifications: | RoHS |
| Max. Operating Temperature: | 80 °C | | |

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.

