

Peplink Mobility 22G (Puma 221-S-W-6) 5 in 1, 2 x LTE/5G, 2 x Wifi, 1x GPS, IP68, SMA, White, 2m

SKU: ANT-MB-22G-S-W-6

MPN: ANT-MB-22G-S-W-6

Description

The Peplink Mobility 22G (Puma 221-S-W-6) is a high-performance antenna system designed for versatile applications in demanding environments. This 5-in-1 antenna combines two LTE/5G, two Wi-Fi, and one GPS element, making it an ideal choice for mobile connectivity solutions. Its robust construction is rated at IP68, ensuring it withstands harsh weather conditions, while the wide frequency range (617 MHz to 6000 MHz) guarantees strong signal reception across multiple bands.

The dual LTE/5G elements support high-speed mobile data transmission essential for applications such as mobile broadband in vehicles, remote monitoring systems, and public safety communications. The integrated 2x2 MIMO Wi-Fi antennas enhance wireless connectivity, making the Mobility 22G suitable for use in buses, trains, and other transport systems requiring reliable internet access for passengers.

Additionally, the built-in GPS antenna provides accurate location data...

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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: | 617 MHz | Polarisation: | Linear |
| Stop Frequency: | 6000 MHz | Input Impedance: | 50 |
| Max. Input Power: | 10 W | | |

RF Connectors

| Ports | RF Interface | Body Shape | Length |
|-------|--------------|------------|---------|
| 2 | SMA Male | Straight | 2000 mm |

Frequency Test Data

| Start Freq. | Stop Freq. | Peak Gain | VSWR | Azimuth |
|-------------|------------|-----------|---------|---------|
| 617 MHz | 960 MHz | 1.2 dBi | < 2.5:1 | 360° |
| 1710 MHz | 2700 MHz | 5.7 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° |

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 | Length |
|-------|--------------|------------|---------|
| 2 | RP-SMA Male | Straight | 2000 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° |

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 | 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 | SMA Male | Straight | RG-174 | 2000 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 |
| 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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