

# Peplink Mobility 22G (Puma 221), 2xLTE/5G, 2x WiFi, 1xGPS, 600-6000MHz, IP68, QMA, White, 1 ft / 0.3m

SKU: PUMA-221-Q-W-1

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

## Description

The Peplink Mobility 22G (Puma 221) is a versatile antenna system designed to enhance connectivity for applications requiring robust mobile communication. It integrates 2x LTE/5G, 2x WiFi, and GPS capabilities, making it ideal for use in mobile environments such as vehicles, boats, and remote sites. Operating across a wide frequency range of 600-6000 MHz, this antenna supports advanced 2x2 MIMO technology, ensuring optimal data transmission and reception for cellular and WiFi connections. This enhances network reliability and speed, crucial for real-time data applications and high-bandwidth tasks.

The unit's IP68 rating signifies its resilience against harsh environmental conditions, including dust and water ingress, making it suitable for outdoor installations. Constructed from durable polycarbonate and ABS plastic, the antenna withstands extreme temperatures from -40 °C to 80 °C, ensuring functionality in diverse climates. The...

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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	Cable Series	Length
2	QMA Male	Straight	L-200	300 mm

## Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR
617 MHz	960 MHz	1.2 dBi	< 2.5:1
1710 MHz	2700 MHz	5.7 dBi	< 2.5:1
3400 MHz	4200 MHz	5.6 dBi	< 2.5:1
5000 MHz	6000 MHz	6 dBi	< 2.5:1

## 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
2	QMA Male	Straight	L-200	300 mm

# Frequency Test Data

Start Freq.	Stop Freq.	Peak Gain	VSWR
2400 MHz	2500 MHz	4.8 dBi	< 2.5:1
5000 MHz	6000 MHz	7.4 dBi	< 2.5:1

## 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:	Polycarbonate (PC), ABS Plastic
Min. Operating Temperature:	-40 °C	Compliance/Certifications:	RoHS
Max. Operating Temperature:	80 °C		

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