

# 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...

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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		

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