

# 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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