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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
Stop Frequency
6000 MHz
Max. Input Power
10 W
Polarisation
Linear
Input Impedance
50 Ω
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
Stop Frequency
6000 MHz
Max. Input Power
10 W
Polarisation
Linear
Input Impedance
50 Ω
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
Start Frequency
1561 MHz
Stop Frequency
1602 MHz
Input Impedance
50 Ω
Polarisation
Right Hand Circular (RHCP)

Low Noise Amplifier (LNA)

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

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

Physical Specification

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

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