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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

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
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
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
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
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
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
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
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
ABS Plastic, Polycarbonate (PC)
Compliance/Certifications
RoHS

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