



Features

- 4x4 MIMO 5G ready cellular antenna system with GPS receiver
- Cellular frequencies 600-6000 MHz
- B71 Support
- Durable and UV-stable housing
- Black or white color options
- IP68 rated







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Overview

Antenna elements		4x LTE, 1x GPS
Cellular frequency bands		0.3dBi@ 617-960MHz 5.1dBi@ 1710-2700MHz 5.8dBi@ 3400-4200MHz 7.0dBi@ 4900-6000MHz
GPS frequency bands		1.6dBi, LNA 28dB: 1561-1602MHz
IP rating		IP67
Dimensions		1.42" / 36mm (spigot not included) 5.12" / 130mm
Coax cable type		CFD-200 (4G/5G, Wi-Fi) RG-174 (GPS)
Connector Type		SMA male, QMA male, N-type male

Description

The Peplink Puma 401 is a 5G ready multi-band antenna built for land-based mobile applications. It supports 4x4 MIMO for high bandwidth and solid reliability. It is also 5G ready and supports a wide range of global cellular frequencies. The GPS receiver is equipped with high gain LNA, making it ideal for location tracking.

The Puma 401 has a solid housing made of UV stable plastic materials. Two color options are available (black and white) to fit different deployments. For easier installation, the antenna comes with different cable length options, available in SMA, QMA or N-type.

Applications

- Public Safety and mission critical connectivity
- Mobile healthcare
- Transportation Connectivity

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Puma 401

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Specification

Cellular

Antenna elements	4 elements
Cellular frequency bands	0.3dBi@ 617-960MHz 5.1dBi@ 1710-2700MHz 5.8dBi@ 3400-4200MHz 7.0dBi@ 4900-6000MHz
VSWR	< 2.5 over 85% of the band
Feed power handling	10W
Input impedance	50 Ω
Polarisation	Linear

GPS

Frequency range Peak gain

VSWR Output return loss Gain: LNA Noise figure Operating Voltage Power consumption

Cable

Type Loss

Diameter

Jacket

Termination

Type Loss

Diameter Jacket

Termination

Mounting

Supported types Mounting hole Max panel thickness 1561-1602 MHz 0.5dBi@1575MHz 1.6dBi@1602MHz < 2.5 10dB max 28 ±3dB 1.5dB max at 3.3V 3.3V

8.5 ±2.5mA at 3.3V

CFD-200 0.33 dB/m @ 900 MHz

0.49 dB/m @ 2000 MHz 0.55 dB/m @ 2500 MHz 0.87 dB/m @ 5800 MHz

13/64" / 5.0mm

Half matt PVC, UV resistant

SMA male, QMA male, N-type male

RG-174 3.4 dB/m @ 1000 MHz 4.9 dB/m @ 1800 MHz

0.1" / 2.7mm

Half matt PVC, UV resistant SMA male, QMA male,

N-type male

Panel, wall, pole 1 11/16" / 43mm

19/32" / 15mm

Puma 401

Mechanical

Product dimensions	1.42" / 36mm (spigot not included) 5.12" / 130mm
Packaged dimensions	8.90" x 8.46" x 4.29" / 226 x 215 x 109mm
Radome material	UV stable PC+ABS

Package contents

Antenna Mounting

Double sided 3M adhesive pad Diameter: 5.08" / 129mm Thickness: 0.08"'' / 2mm

Environmental, compliance

IP rating	IP67
Operating temperature	-40° - 176°F / -40° - 80°C
Storage temperature	-40° - 176°F / -40° - 80°C
Compliance	Complies with RoHS requirements

Puma 401



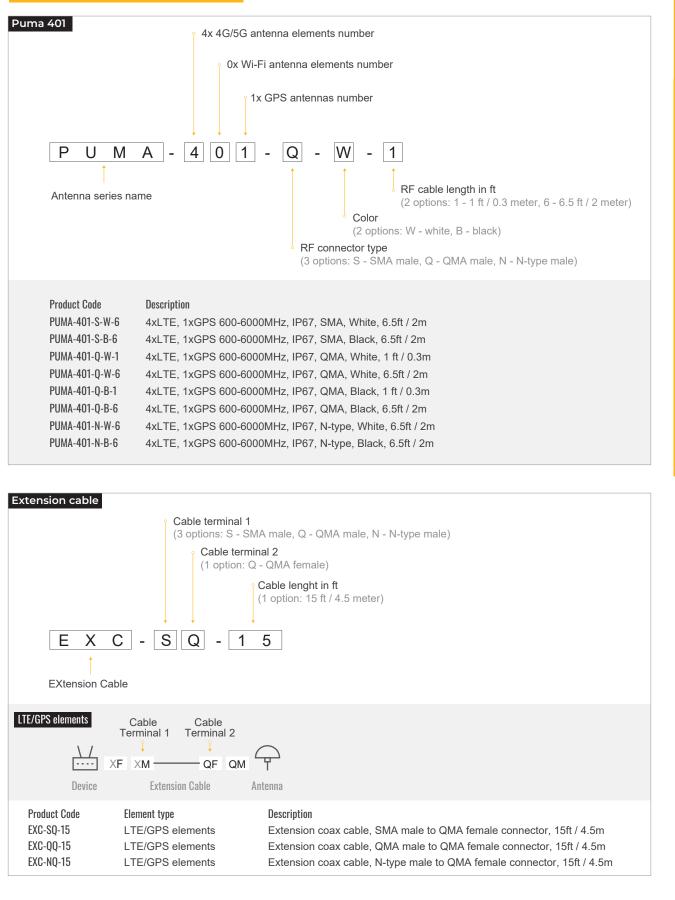
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Ordering information

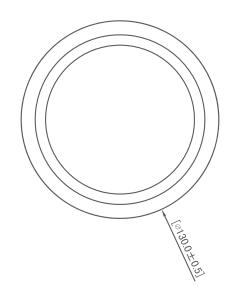


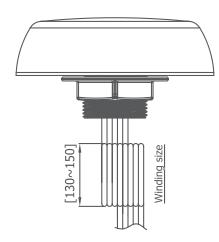
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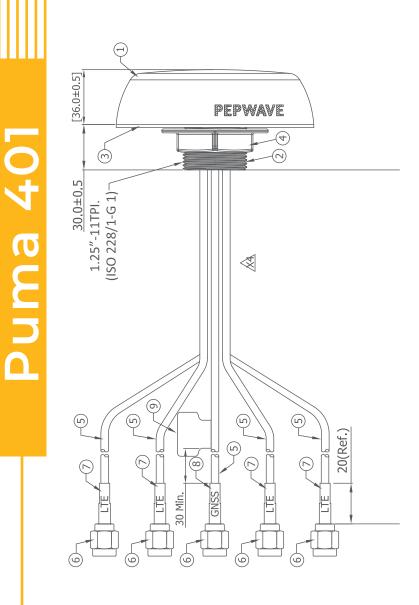




Technical drawing







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No.	Description	Qty
1	Antenna top cover (PC+ABS)	1
2	Antenna bottom cover (PC+ABS)	1
3	Double sided 3M adhesive pad	1
4	Hexagon NUT (PC+ABS)	1
5	Cable CFD-200 (4G/5G)	5
6	4G/5G, GPS antenna connector	5
7	LTE cable marking	4
8	GPS cable marking	1
9	Label	1

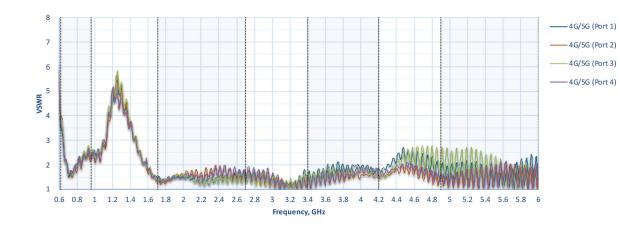


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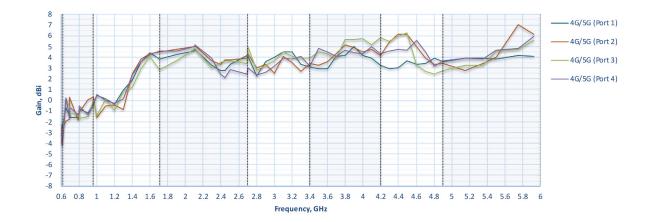
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Cellular Antenna VSWR



Cellular Antenna Gain

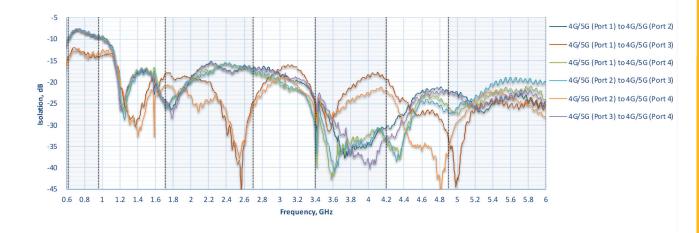




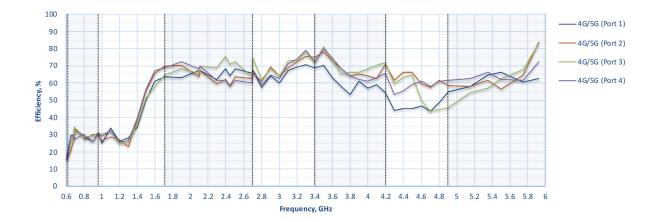




Cellular Antenna Isolation



Cellular Antenna Efficiency



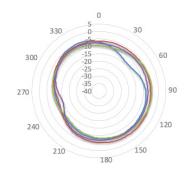




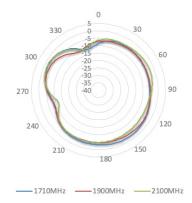


Radiation patterns (Azimuth)

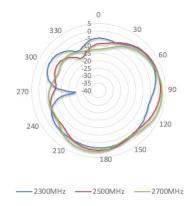
617-960 MHz



1710-2100MHz

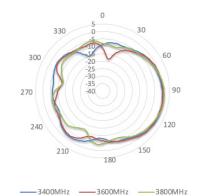


2300-2700 MHz

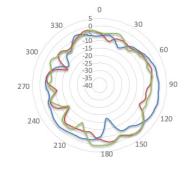




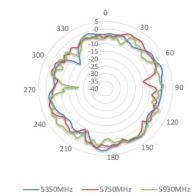
3400-3800 MHz



4200-5150 MHz



5350-5925 MHz



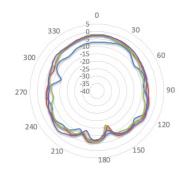






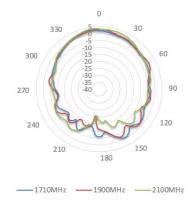
Radiation patterns (Elevation 1)

617-960 MHz

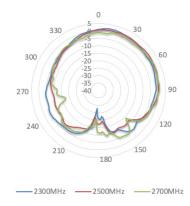


_____617MHz _____800MHz _____900MHz _____960MHz

1710-2100MHz

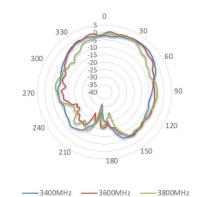


2300-2700 MHz

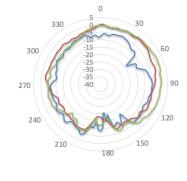




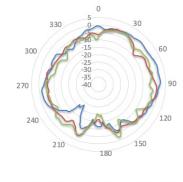
3400-3800 MHz



4200-5150 MHz



5350-5925 MHz



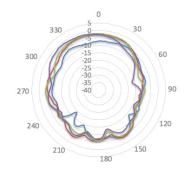






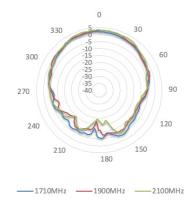
Radiation patterns (Elevation 2)

617-960 MHz

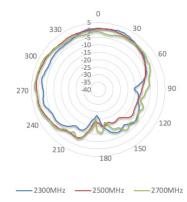


_____617MHz _____800MHz _____900MHz _____960MHz

1710-2100MHz

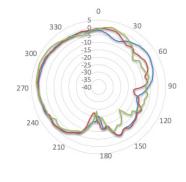


2300-2700 MHz



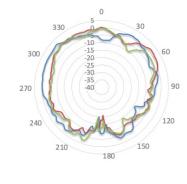
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3400-3800 MHz



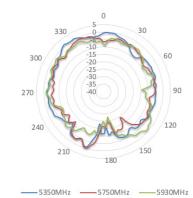
_____3400MHz _____3600MHz _____3800MHz

4200-5150 MHz



4200MHz 4900MHz 5150MHz

5350-5925 MHz

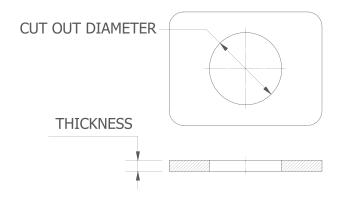




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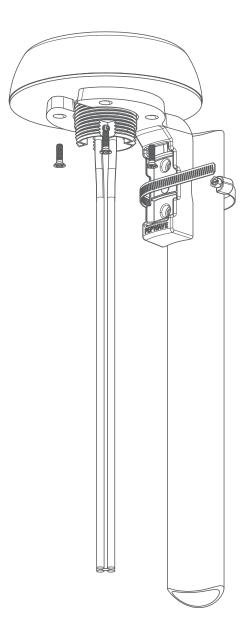
Notes

- Cover panel surface to protect the paint work. When drilling a hole, start with a small one, then increase it.
- Cut out diameter should be 1 11/16" / 43mm.
 Maximum allowed panel thickness 15mm.
- After a drill clean up the surface and apply some paint around the hole to prevent corrosion. Attach the antenna.





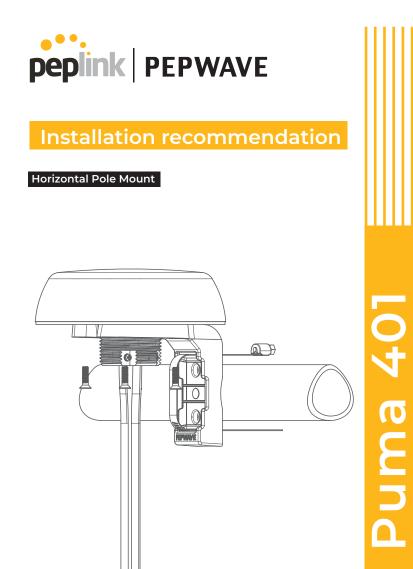


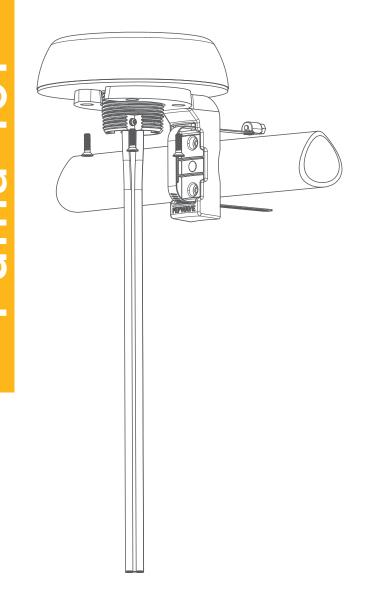




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