

2x2 MIMO Wi-Fi Dual Band Antenna

Features

- 2x2 MIMO Wi-Fi dual band antenna
- Wi-Fi frequencies: 2400-2500 MHz & 4900-6000 MHz
- Durable and UV-stable housing
- Black or white color options
- IP68 rated

7 dBi IP **68**







Overview

Antenna elements 2x Wi-Fi

Frequency bands 6.2dBi: 2400-2500 MHz

7.3dBi: 4900-6000 MHz

IP rating IP68

Dimensions (Height) 1.42" / 36mm (spigot not included)

(Diameter) 5.12" / 130mm

Coax cable type CFD-200
Connector Type RP-SMA male

Description

The Peplink Mobility 02 is a dual-band (2.4GHz & 5GHz) Wi-Fi antenna built for mobile applications.

The Mobility 02 supports 2x2 MIMO and 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 RP-SMA connector.

Applications

- Transportation connectivity (trucks, busses, utility vehicles)
- Mining vehicles and machinery communications

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sales@peplink.com

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Mobility 0.



Specification

Wi-Fi

Antenna elements 2 elements

Cellular frequency bands 6.2dBi: 2400-2500 MHz

7.3dBi: 4900-6000 MHz

VSWR < 2.0 Feed power handling 10W Input impedance 50 Ω Polarisation Linear

Cable

Type CFD-200

Length 6 ft 7 in. / 2m

Loss 0.33 dB/m @ 900 MHz

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

Diameter 0.2 in. / 5.0mm

Jacket Half matt PVC, UV resistant

Termination RA-SMA male

Mounting

Supported types Panel, wall, pole
Mounting hole 1 11/16" / 43mm
Max panel thickness 19/32" / 15mm

Mechanical

Product dimensions (Height) 1.42 in. / 36mm (spigot not included)

(Diameter) 5.12 in. / 130mm

Packaged dimensions $8.90 \times 8.46 \times 4.29 \text{ in.} /$

226 x 215 x 109mm

Radome material UV stable PC+ABS

Package contents

Antenna Mobility 02

Mounting Mounting bracket Wall/pole mount

Double sided 3M adhesive pad Diameter: 5.08 in. / 129 mm Thickness: 0.08 in. / 2 mm

UL 746C (F1, long-term UV exposure)

Environmental, compliance

Cable flammability UL 758 (VW-1)

Compliance RoHS, REACH & WHEE

Enclosure flammability UL 94 HB IP rating IP68

Operating temperature $-40^{\circ} - 176^{\circ} \text{F} / -40^{\circ} - 80^{\circ} \text{C}$ Storage temperature $-40^{\circ} - 176^{\circ} \text{F} / -40^{\circ} - 80^{\circ} \text{C}$

Salt Spray MIL-STD 810F/ASTM 8117

Wind Survival 220 km/h

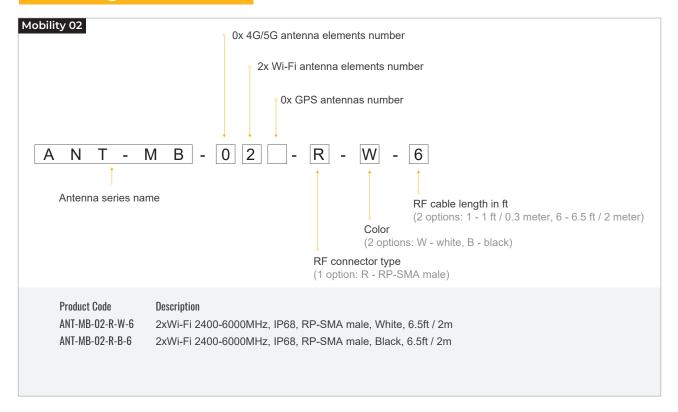
UV resistance rating

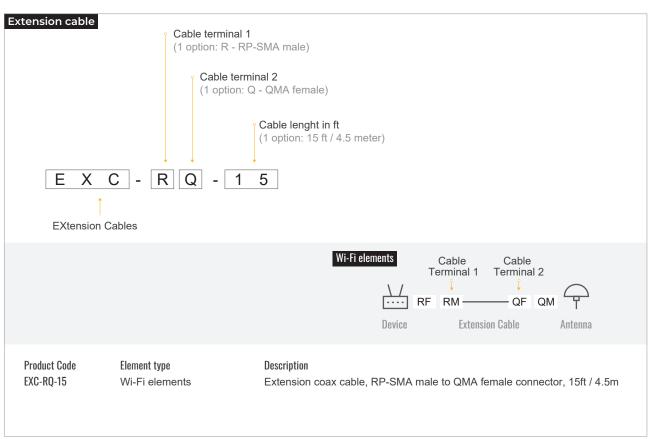






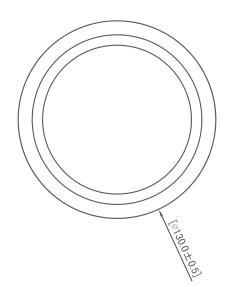
Ordering information

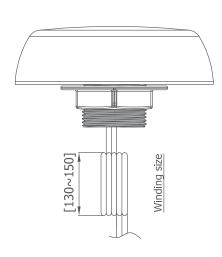




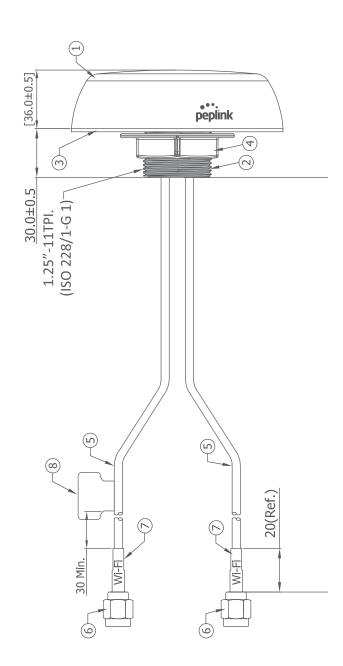


Technical drawing





Mobility 02

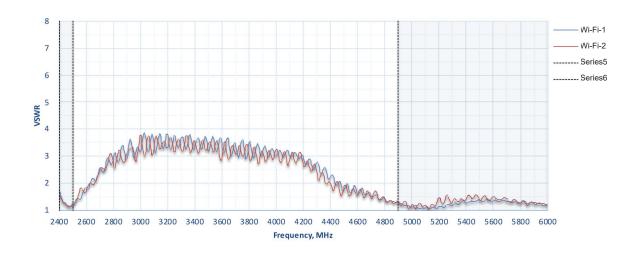


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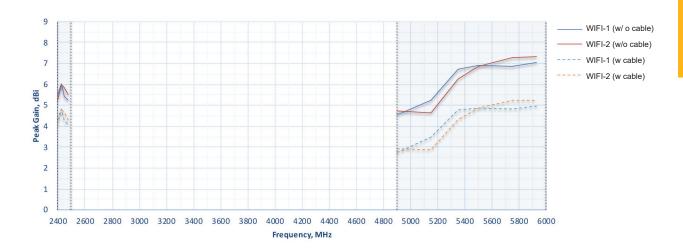
No.	Description	Qty
1	Antenna top cover (PC+ABS)	1
2	Antenna bottom cover (PC+ABS)	1
3	Double sided 3M adhesive pad	1
4	Hexagon NUT (PC+ABS)	1
5	Cable (CFD-200)	2
6	Connector (RP-SMA male)	2
7	Heat shrinking tube	2
8	Wi-Fi cable marking (blue color)	1



Wi-Fi Antenna VSWR

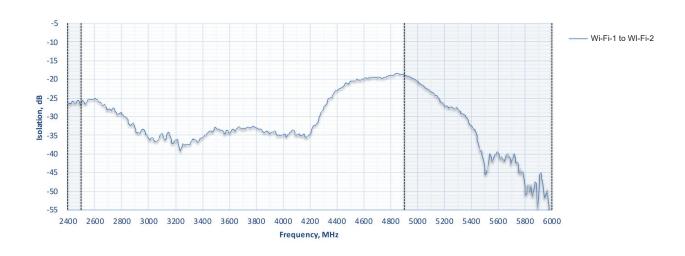


Wi-Fi Antenna Gain

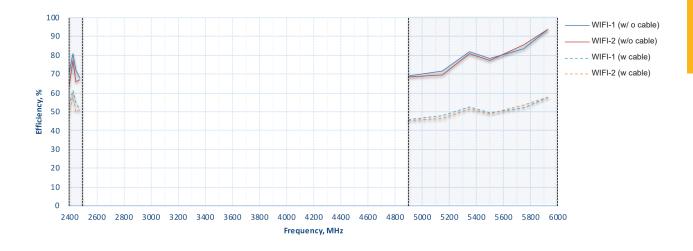




Wi-Fi Antenna Isolation



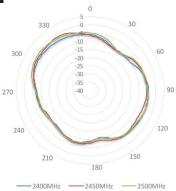
Wi-Fi Antenna Efficiency



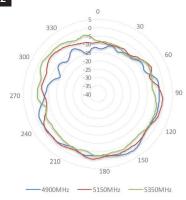


Wi-Fi Radiation Patterns (Azimuth)

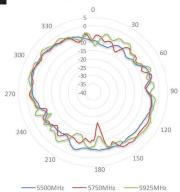
2400-2500 MHz



4900-5350 MHz

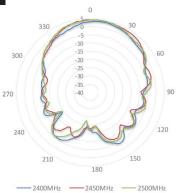


5550-5950 MHz

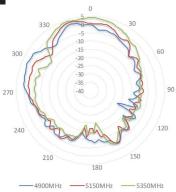


Wi-Fi Radiation Patterns (Elevation 1)

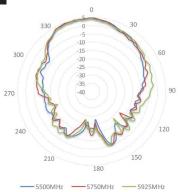
2400-2500 MHz



4900-5350 MHz



5550-5950 MHz

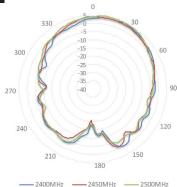




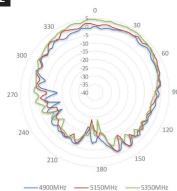


Wi-Fi Radiation Patterns (Elevation 2)

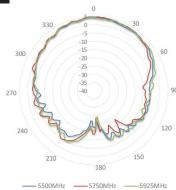
2400-2500 MHz



4900-5350 MHz



5550-5950 MHz

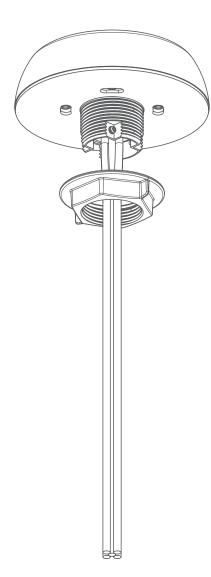


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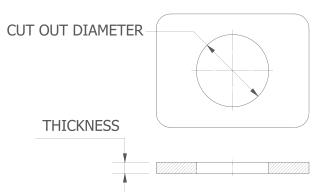


Installation recommendation

Panel Mount







Notes

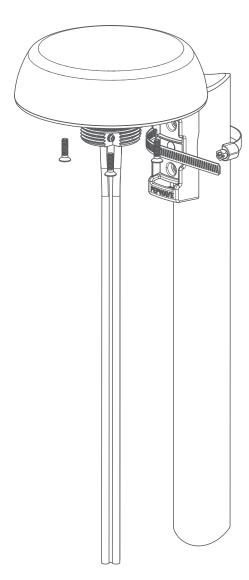
- Cover panel surface to protect the paint work. When drilling a hole, start with a small one, then increase it.
- Cut out diameter 1.7 in. / 43 mmMaximum allowed panel thickness 0.6 in. / 15 mm
- After a drill clean up the surface and apply some paint around the hole to prevent corrosion. Attach the antenna.



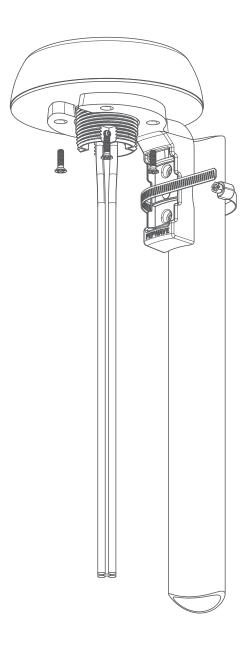


Installation recommendation

Pole Mount



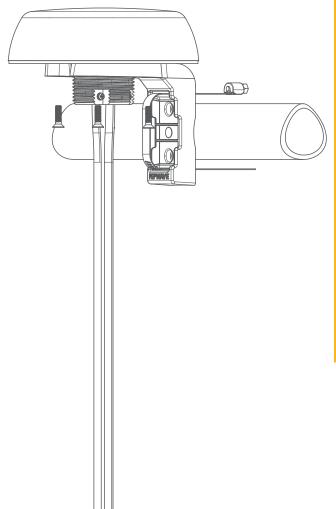
Mobility 02





Installation recommendation

Horizontal Pole Mount



Mobility 02

