ANTENNA MAX

Maximum Flexibility, Maximum Gain
Outdoor Cellular / GPS Antenna + Enclosure

ref: 2412 - v04

Antenna MAX

peplink

Maximum Gain: Up to 6.6dBi

Worried about cable loss?

Minimize cable loss by installing your router directly into the antenna enclosure.
Retain maximum signal gain by connecting the Antenna Max to the rest of your network with an ethernet cable.

Conventional Antenna

Achieve Near 0dB cable loss

by eliminating RF cables from your setup.

5m RF cable 5dB+ cable loss

A 5m RF cable could lead to nearly complete signal loss on higher frequencies (2100MHz+)

Switch

Client devices

Router

Maximum Durability

UV-resistant plastic enclosure resists moisture, water intrusion, salt spray and corrosion.

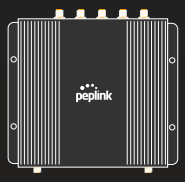
Antenna MAX

Maximum Flexibility

Mix-and-match the antenna with many routers including:

BR1 Mini Series [1]

Transit Duo Pro [2]



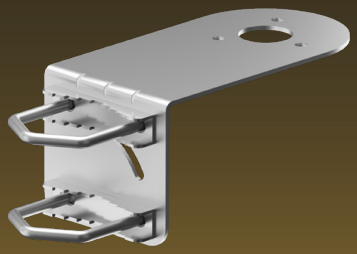
BR1 Pro 5G [2] / CAT20 [2]

POTS Adapter [2]

[1] BR1 Mini series: BR1 Mini, BR1 Mini Core, BR1 Mini 5G, BR1 Mini M2M.

[2] For certain products which do not support PoE In, a PoE Splitter is required.

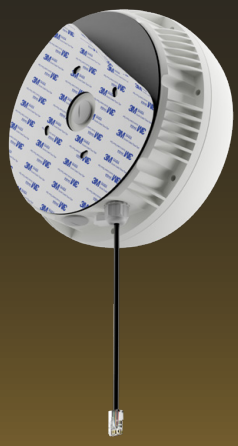
Mounts easily on mobile equipment and vehicles - trucks, vans, boats.



Pole Mount

Fixed-roof L-mount set included

Wall - Mount

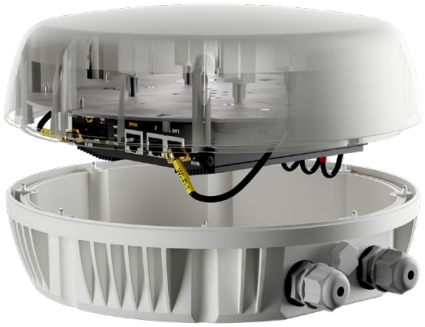


Surface Mount

Maximum Value

Antenna Max is a **cost-effective way** to get maximum performance from your cellular and 5G routers in outdoor environments.

Antenna MAX



Specification

Cellular

Antenna Elements	4 elements
Peak Gain & Frequencies	3.0dBi: 617-960MHz 6.2dBi: 1410-2700MHz 5.7dBi: 3400-4400MHz 6.6dBi: 5000-6000MHz
VSWR	< 2.5 over 95% of the band
Feed Power Handling	10W
Input Impedance	50 Ω
Polarisation	Linear
Connectors	Right angle SMA male

Wi-Fi

Antenna Elements	2 elements
Peak Gain & Frequencies	5.4dBi: 2400-2500MHz 7.4dBi: 5000-6000MHz
VSWR	< 2.5
Feed Power Handling	10W
Input Impedance	50 Ω
Polarisation	Linear
Connectors	Right angle RP-SMA male

GPS

Frequency Range	1575-1602 MHz
Peak Gain	0.9dBi@1575MHz 0.8dBi@1602MHz
VSWR	< 2.0
Gain: LNA	27 ±3dB
Noise Figure	2.5dB
Operating Voltage	3.3V
Power Consumption	10 ±3.0mA
Connectors	Right angle SMA male

Specifications are subject to change without notice.

Antenna MAX

Specification

Mounting

Supported Types	Surface, wall, pole

Package Contents

Package Contents	Antenna MAX L-Mount Set Double sided 3M adhesive pad 3pcs Cable Gland 2pcs Hole Plug

Mechanical

Product Dimensions	4.72" / 120 mm - Height 9.84" / 250 mm - Diameter
Packaged Dimensions	13.82" x 11.61" x 5.75" 351x295x146mm
Enclosure Material	UV stable PC

Environmental, Compliance

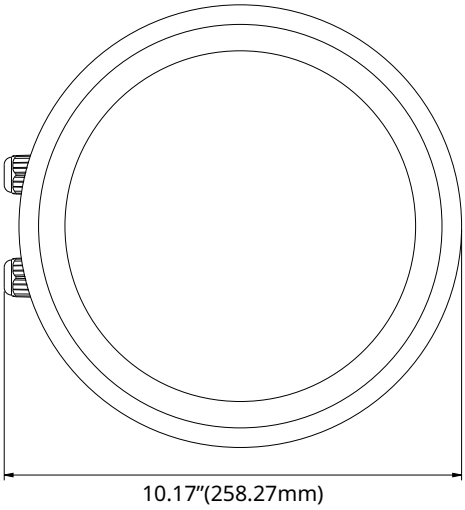
IP Rating	IP67
Operating Temperature	-40° - 176°F / -40° - 80°C
Storage Temperature	-40° - 176°F / -40° - 80°C
Compliance	ROHS, REACH, WEEE
Enclosure Flammability	UL 94 V-0 (1.47 mm)
UV resistance	UL 746C (F1 long-term UV exposure)
Salt Spray	MIL-STD 810F/ASTM 8117

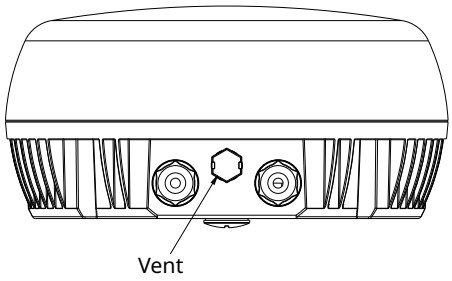
Ordering Information

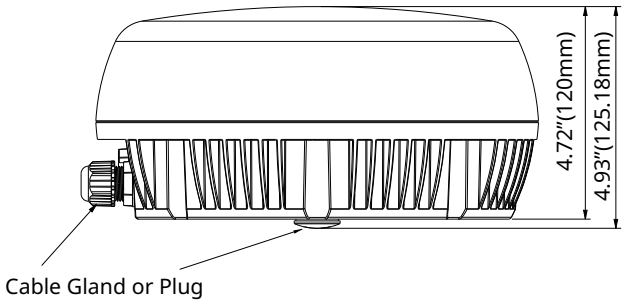
Product Code	Description
ANT-MAX	4xLTE/5G, 2x Wi-Fi, 1xGPS 600-6000MHz, IP67, SMA male (Cellular, GPS), RP-SMA male (Wi-Fi), White

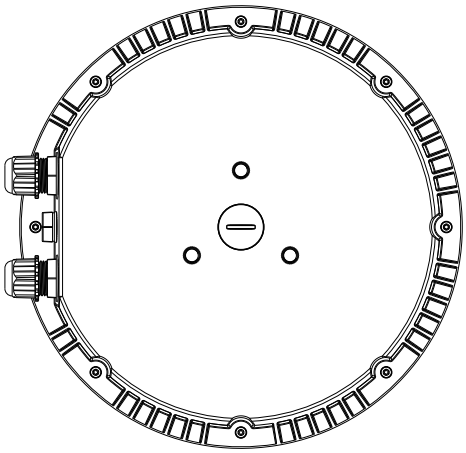
Antenna MAX

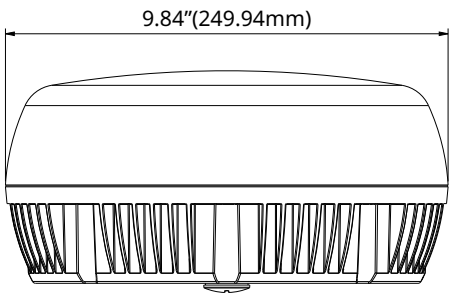
Technical Drawing







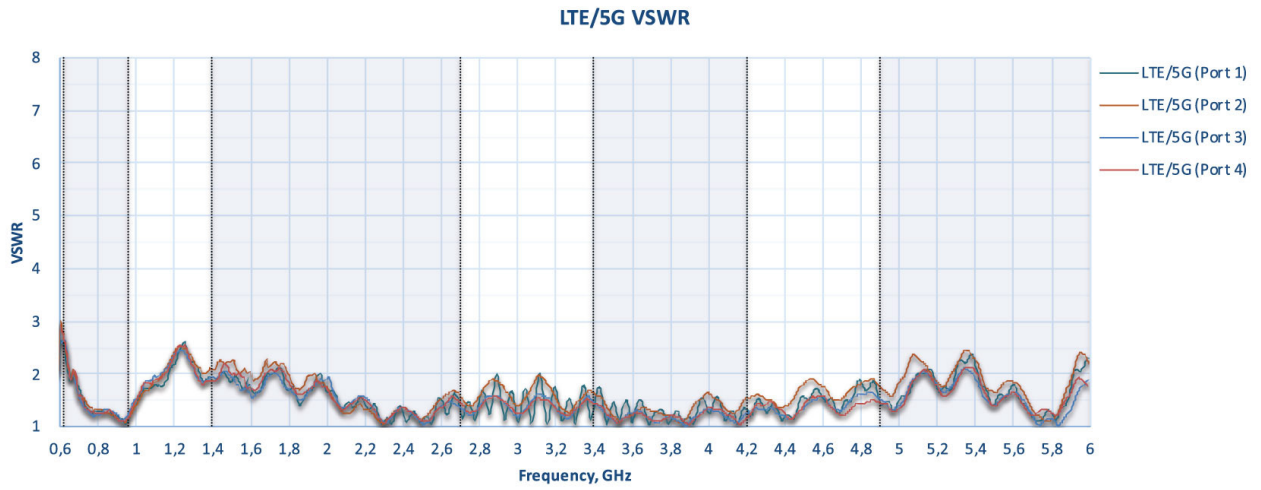




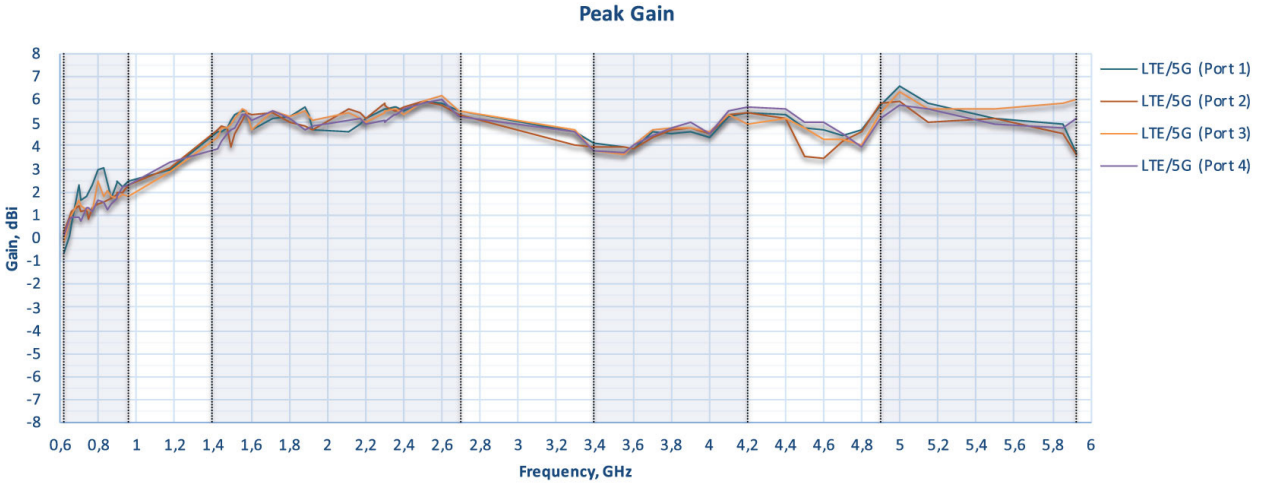
Antenna MAX

Cellular Antenna Performance

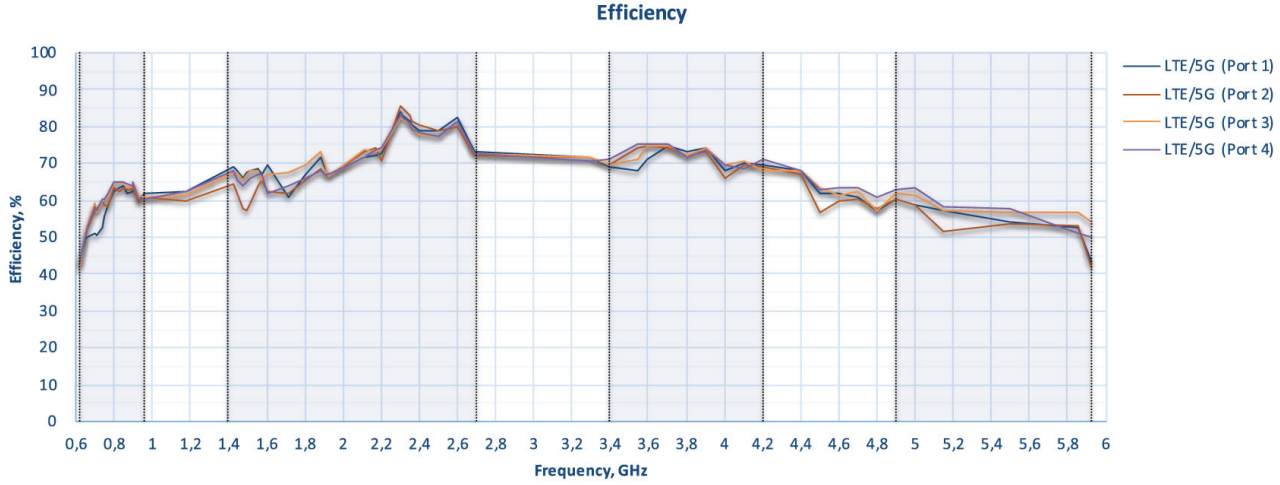
Cellular Antenna VSWR



Cellular Antenna Gain



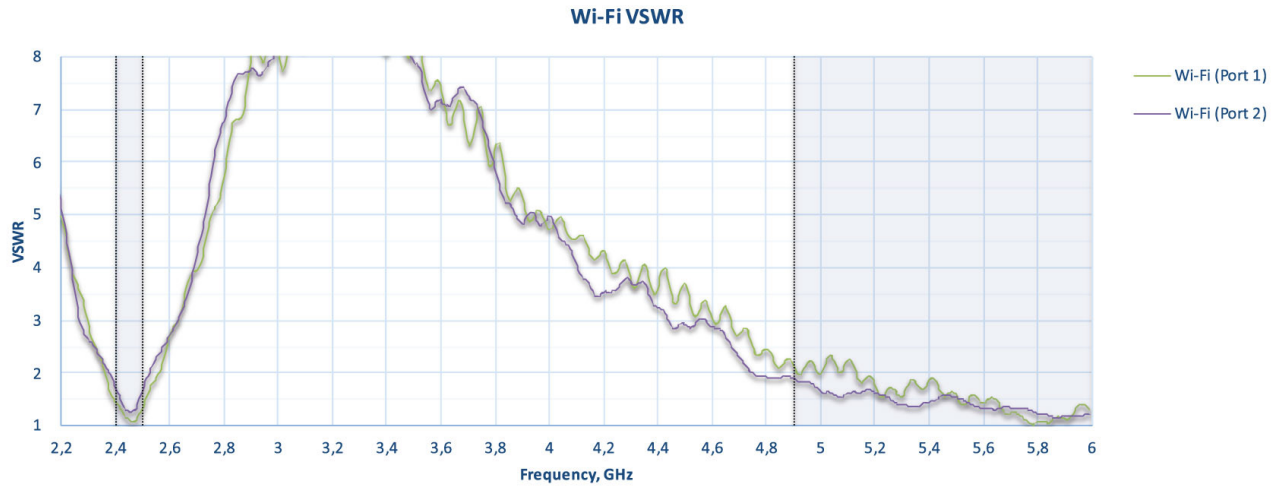
Cellular Antenna Efficiency



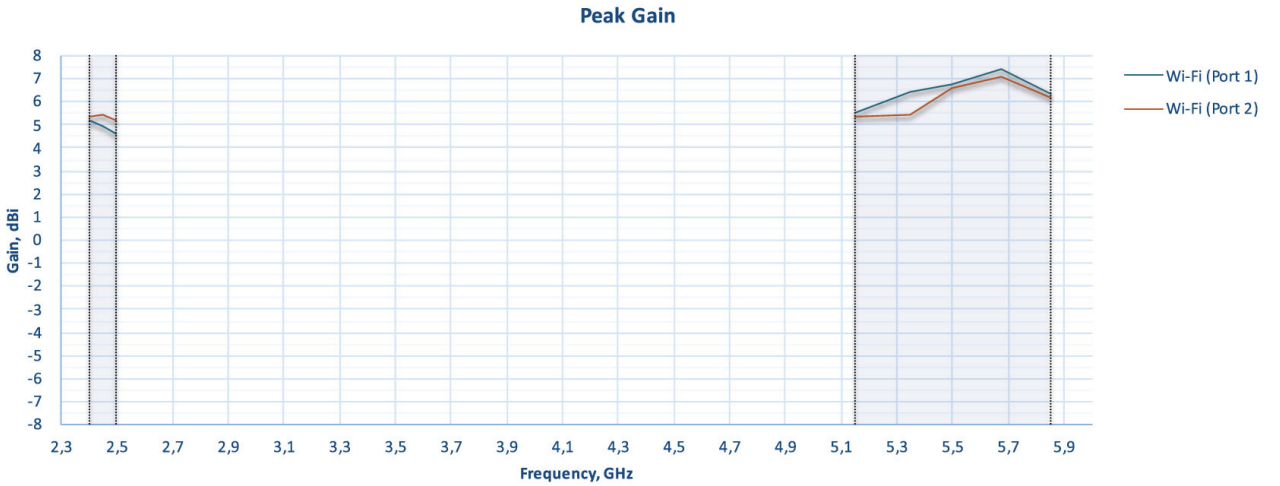
Antenna MAX

Wi-Fi Antenna Performance

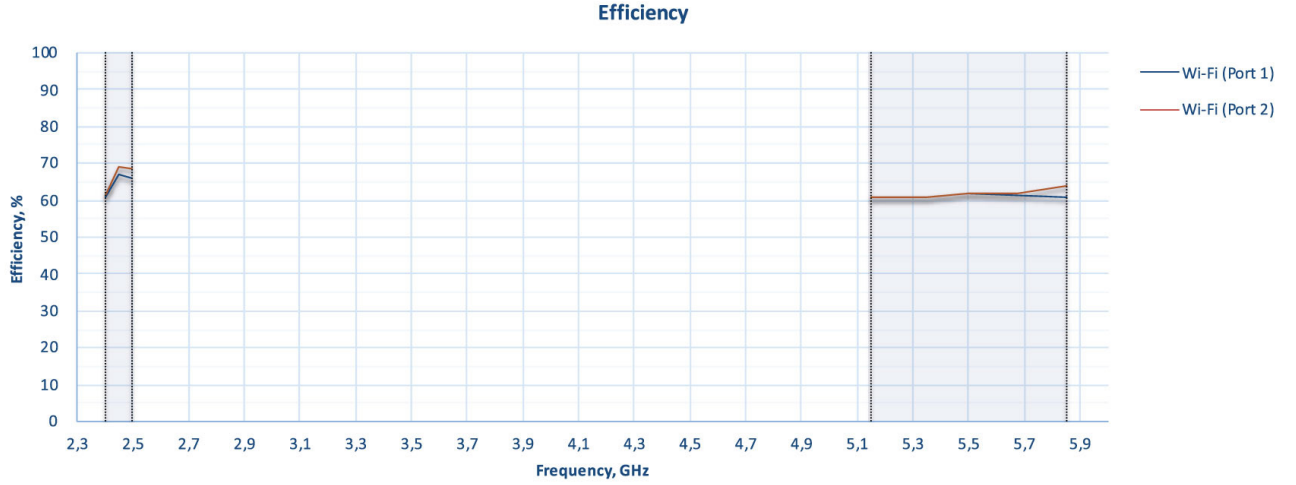
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain



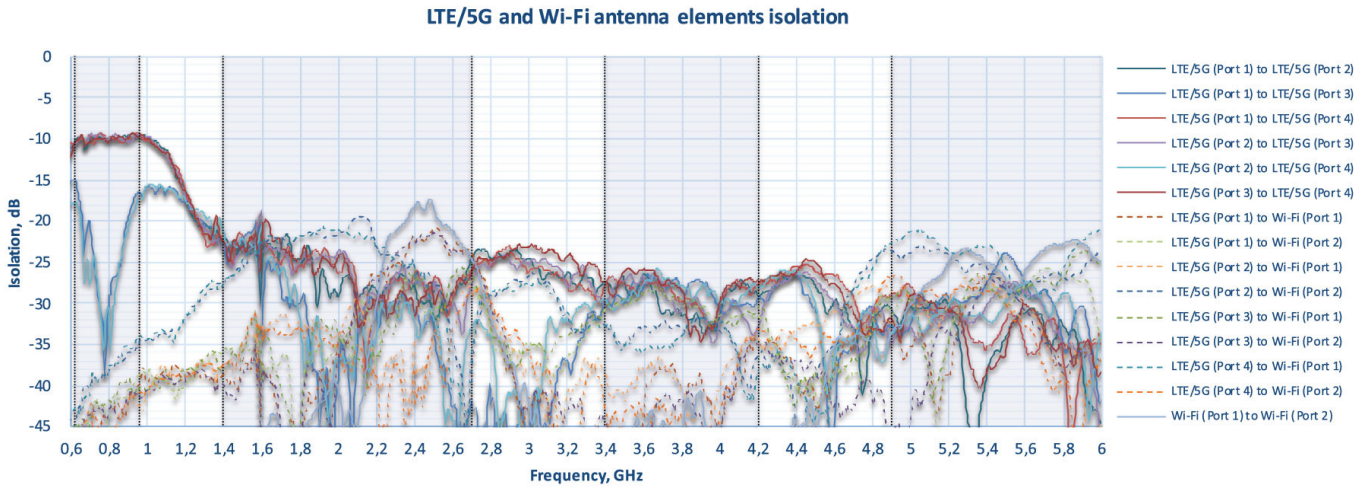
Wi-Fi Antenna Efficiency



Antenna MAX

Cellular & Wi-Fi Antenna Performance

Cellular & Wi-Fi Antenna Isolation

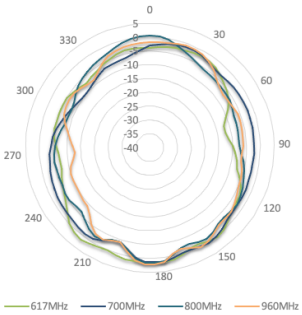


Antenna MAX

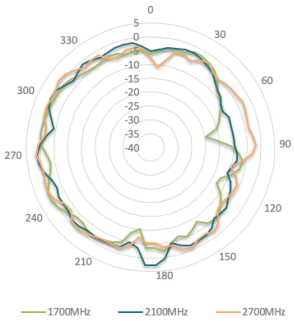
Radiation Pattern

LTE Radiation Patterns (Elevation 1)

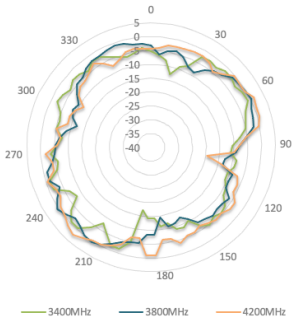
617-960 MHz



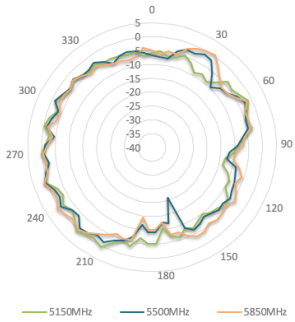
1700-2700 MHz



3400-4200 MHz

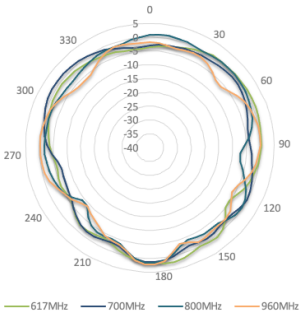


5150-5850 MHz

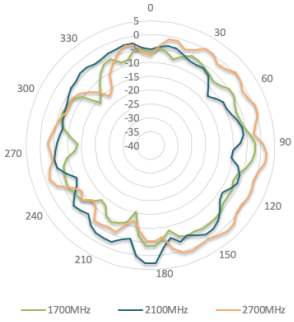


LTE Radiation Patterns (Elevation 2)

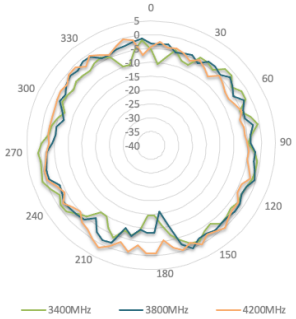
617-960 MHz



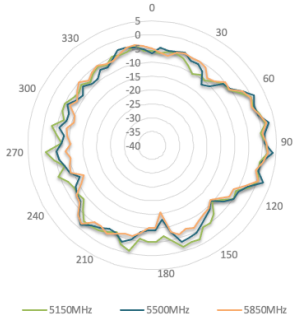
1700-2700 MHz



3400-4200 MHz



5150-5850 MHz

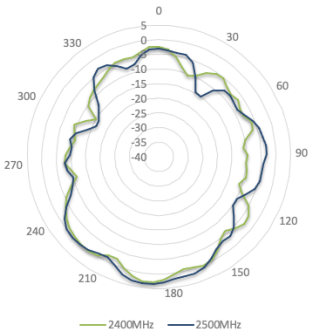


Antenna MAX

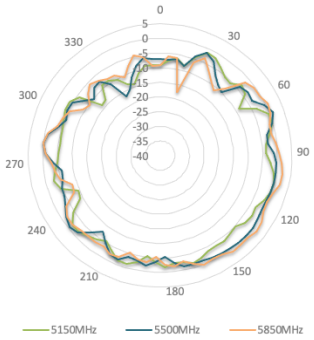
Radiation Pattern

Wi-Fi Radiation Patterns (Azimuth)

2400-2500 MHz

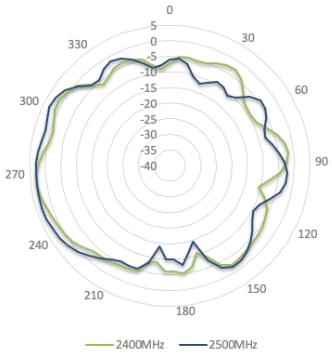


5150-5850 MHz

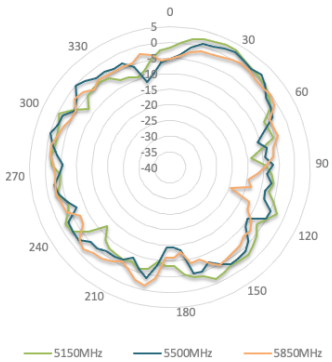


Wi-Fi Radiation Patterns (Elevation 1)

2400-2500 MHz

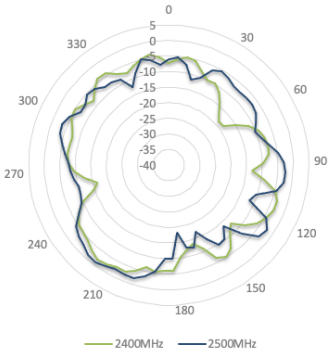


5150-5850 MHz

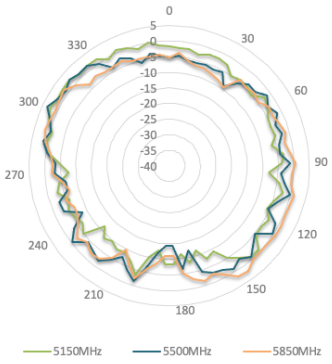


Wi-Fi Radiation Patterns (Elevation 2)

2400-2500 MHz



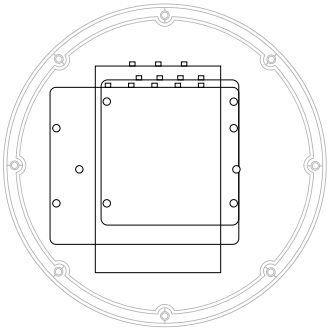
5150-5850 MHz



Antenna MAX

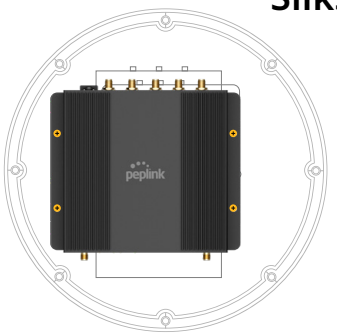
Installation Recommendation

Position Router

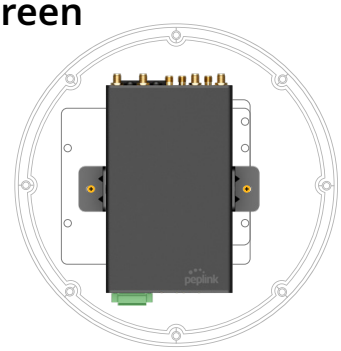


Make sure you align the router with the placement mark on the silkscreen.

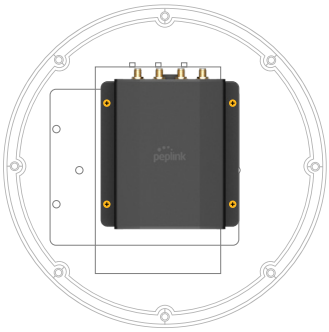
Silkscreen



BR1 Pro 5G

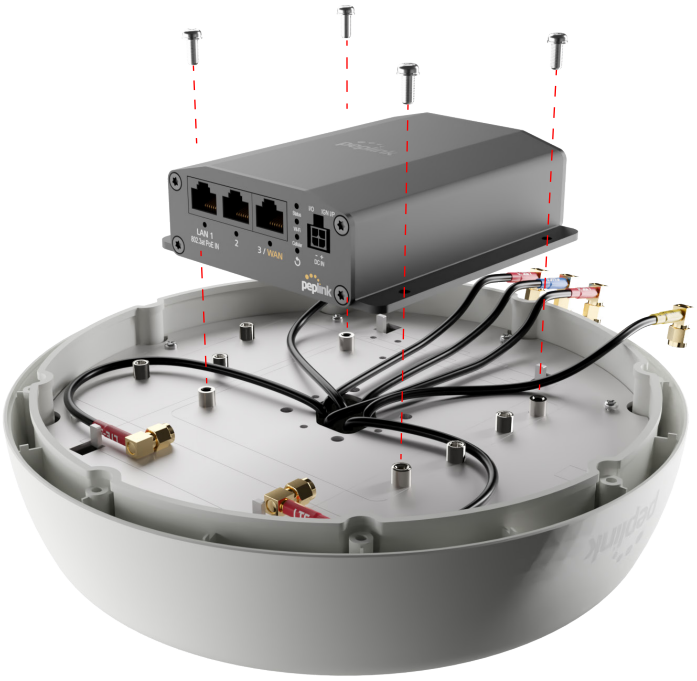


Transit Duo Pro

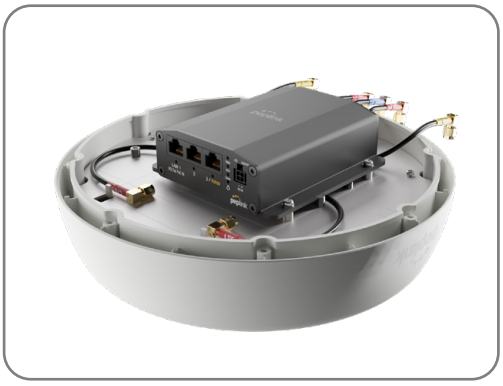


BR1 Mini Series

Install Router



Tighten the screws securely into the corresponding router's mounting holes.



Antenna MAX

Installation Recommendation

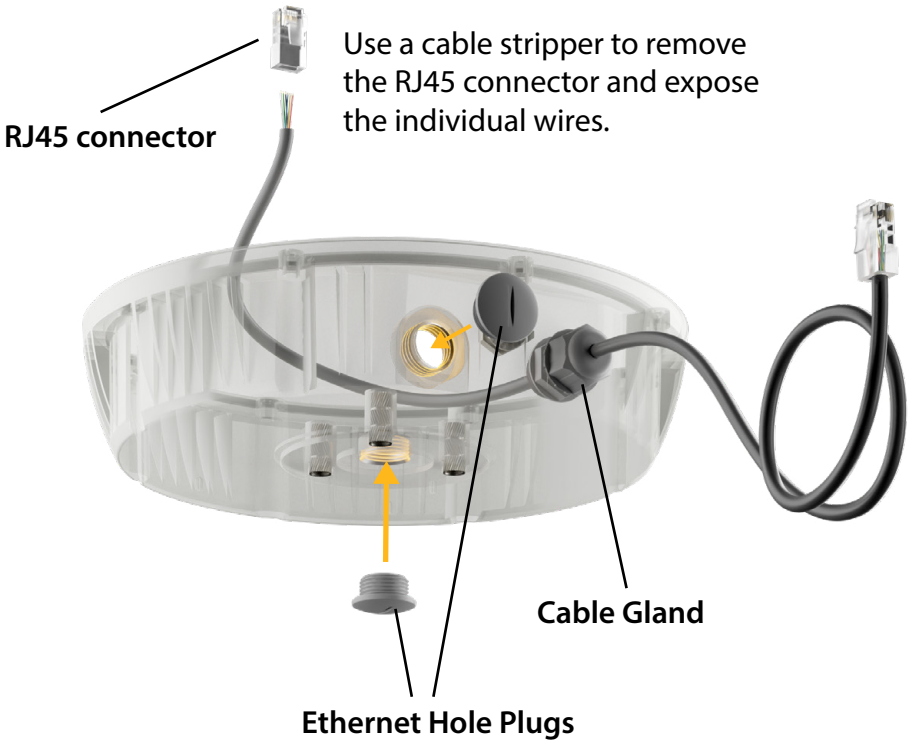
Connect Cables to Router

Align the **Wi-Fi**, **LTE** and **GPS** SMA cables with the corresponding ports on the router. Tighten the connector into the port securely in place.

Ethernet Cable

Step 1

Use a cable stripper to remove the RJ45 connector and expose the individual wires.



Step 2

Ethernet cable can be connected via the bottom or side cable gland on the device.

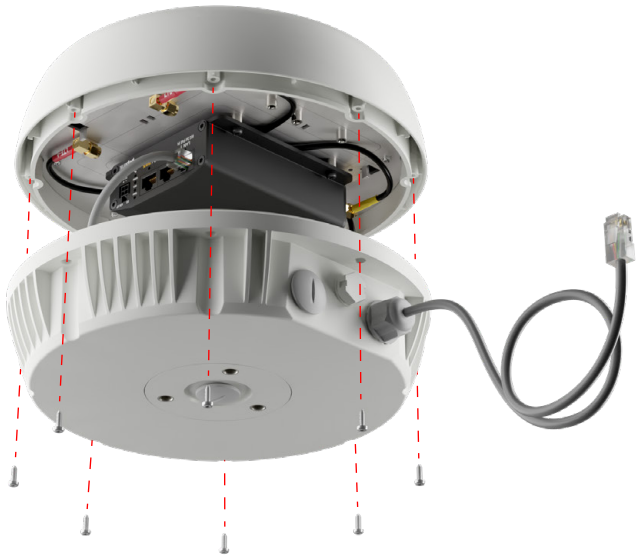
For any unused hole, use a **ethernet hole plug** to securely seal it.

Note: Be sure not to use excessive force when removing the connector as it is delicate.

Antenna MAX

Installation Recommendation

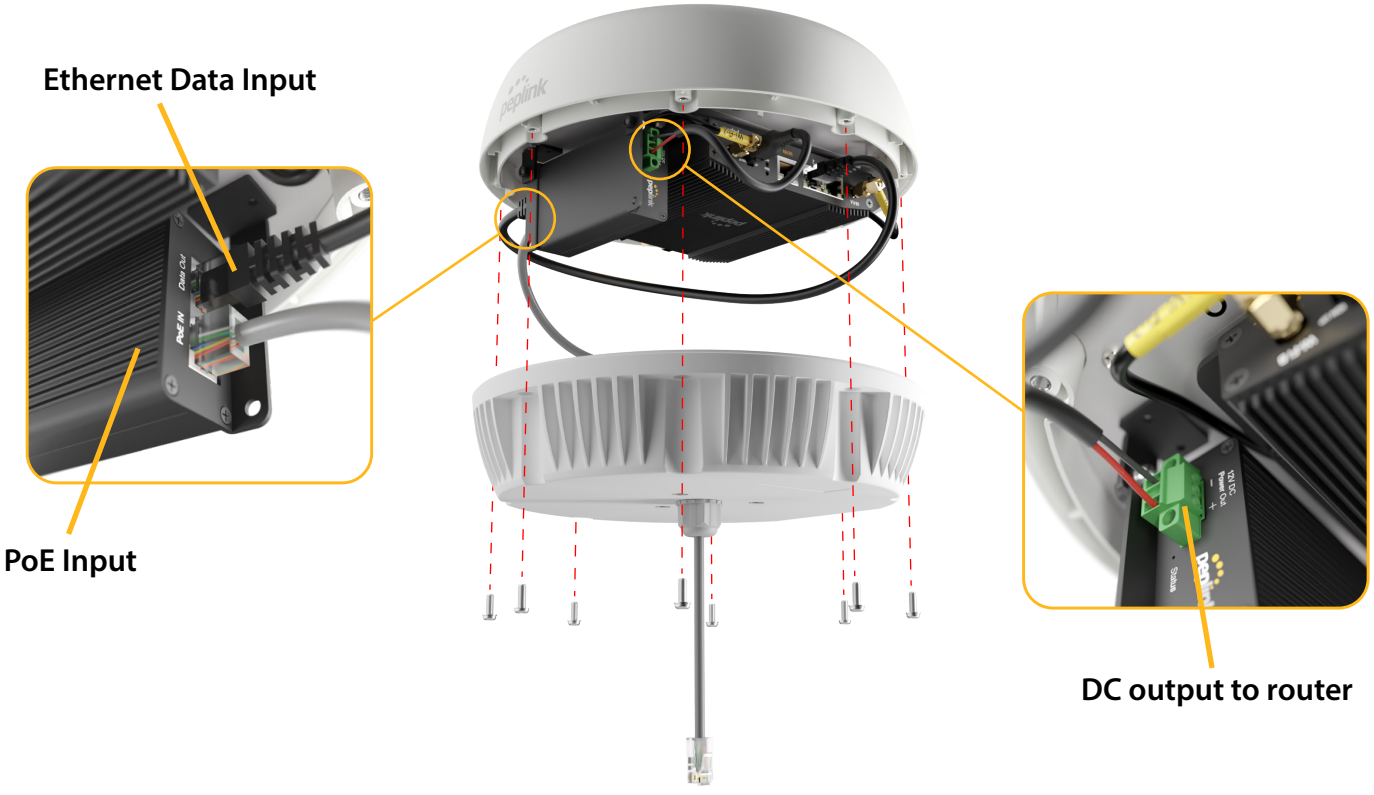
Attach Bottom Cover



Align the bottom cover with the top cover , secure it in place, and then tighten the screws.

Install PoE Splitter

While some routers may not support Power over Ethernet (PoE) input, **Peplink PoE splitter** can be used to provide power to these devices.



Antenna MAX

Installation Recommendation

Wall Mount

Pole Mount

Vertical Pole

Horizontal Pole

Antenna MAX

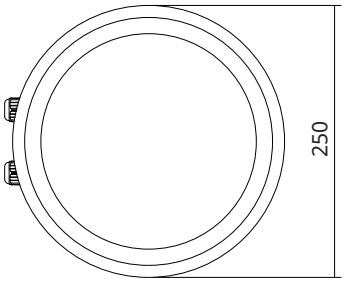
Installation Recommendation

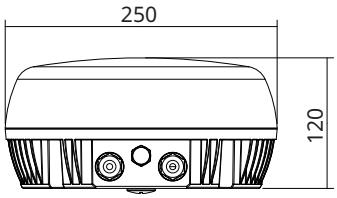
Surface Mount

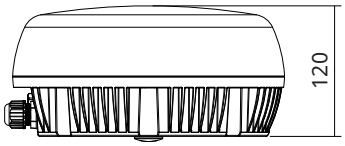
Antenna MAX

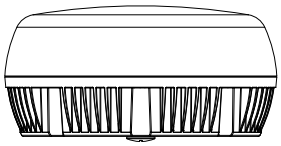
Packing List Information

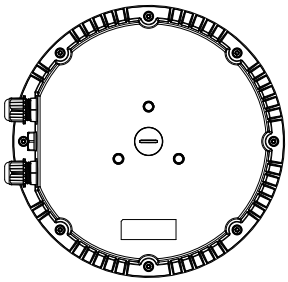
Antenna

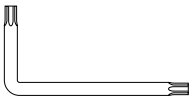












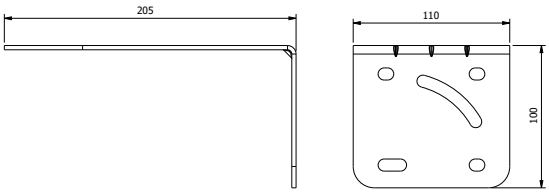
L-wrench for T20 bolts

Bolt
(4 pcs, T20 M4xL8)
Router

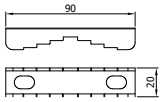
Bolt
(2 pcs, T20 M4xL8)
PoE

Bolt
(8 pcs, T20 M4xL12)
Cover

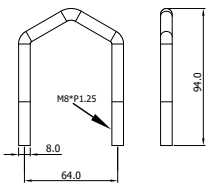
L-Mount Mount Set



L-Mount



Bracket
(2 pcs)



V-bolt
(2 pcs)

V-bolt nut
(4 pcs, M8)