# ANTENNA MAX

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

peplink

peplink

### **Maximum Gain**

Up to +7.4dB effective antenna gain at router ports

#### 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.

#### Antenna

# 10m RF cable 5dB cable loss

A 10m RF cable could lead to nearly complete signal loss on higher frequencies (2100MHz+)

Router



# Maximum Durability

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

# Up to 7.4dB

### eliminating RF cable loss

Increase up to 7.4dB gain by eliminating RF cables from your setup.







### **Maximum** Flexibility

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



BR1 Pro 5G <sup>2</sup> / CAT20 <sup>2</sup>

<sup>1</sup> BR1 Mini series: BR1 Mini, BR1 Mini Core, BR1 Mini 5G, BR1 Mini M2M.

<sup>2</sup> For certain products which do not support PoE In, a PoE Splitter is required.

#### **Fixed-roof L-mount included**











### Specification

Cellular		Wi-Fi	
Antenna Elements	4 elements	Antenna Elements	2 elements
Peak Gain &	3.0dBi: 617-960MHz	Peak Gain &	5.4dBi: 2400-2500MHz
Frequencies	6.2dBi: 1410-2700MHz 5.7dBi: 3400-4400MHz	Frequencies	7.4dBi: 5000-6000MHz
	6.6dBi: 5000-6000MHz	VSWR	< 2.5
VSWR	< 2.5 over 95% of the band	Feed Power Handling	10W
Feed Power Handling	10W	Input Impedance	50 Ω
Input Impedance	50 Ω	Polarisation	Linear
Polarisation	Linear	Connectors	Right angle RP-SMA male
Connectors	Right angle 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.



### **Specification**

Mounting		Mechanical	
Supported Types	Surface, wall, pole, deck	Product Dimensions	4.72" / 120 mm - Height 9.84" / 250 mm - Diameter
Package Contents		Packaged Dimensions	13.82" x 11.61" x 5.75" 351x295x146mm
Package Contents	Antenna MAX L-Mount Set Double sided 3M adhesive pad 3pcs Cable Gland 2pcs Hole Plug	Enclosure Material	UV stable PC
Environmental, Comp	bildince		
IP Rating	IP67	Compliance	ROHS, REACH, WEEE
Operating Temperature Storage Temperature	-40° - 176°F / -40° - 80°C -40° - 176°F / -40° - 80°C	Wind Survivability	ТВД
		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

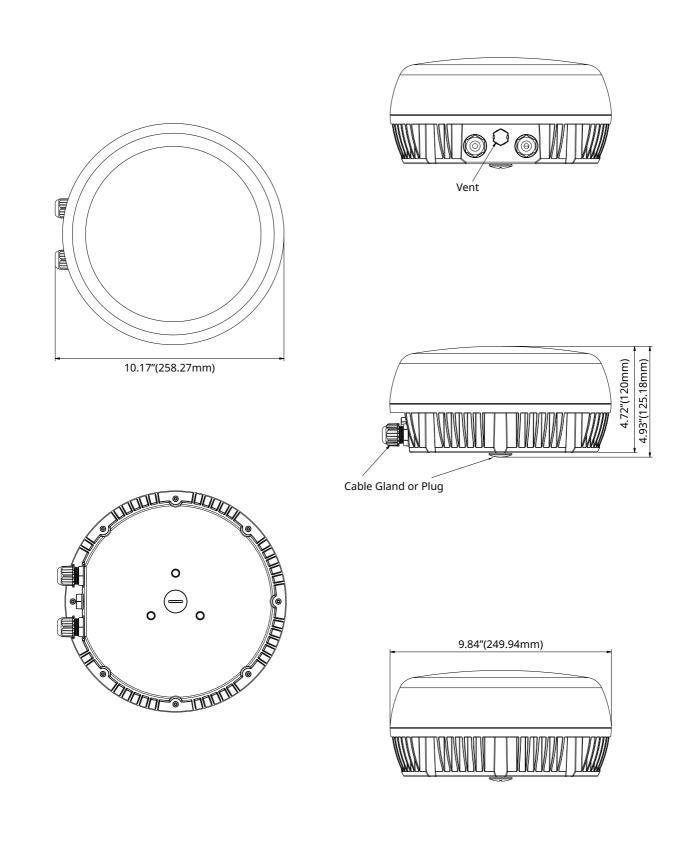
### **Ordering Information**

**Product Code** ANT-MAX Description

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

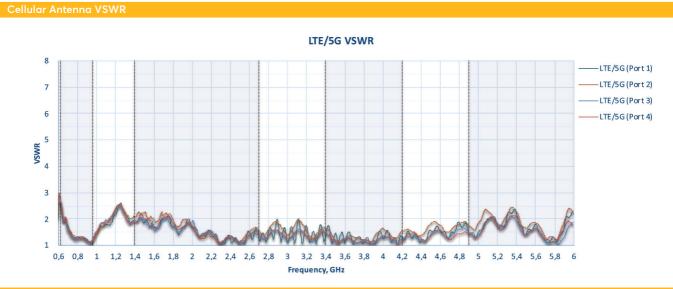


### **Technical Drawing**





### **Cellular Antenna Performance**



#### Cellular Antenna Gain

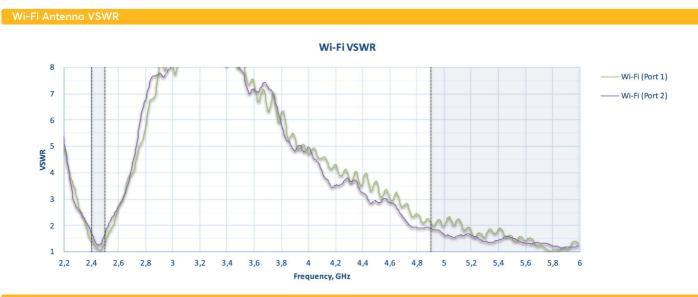


#### **Cellular Antenna Efficiency**

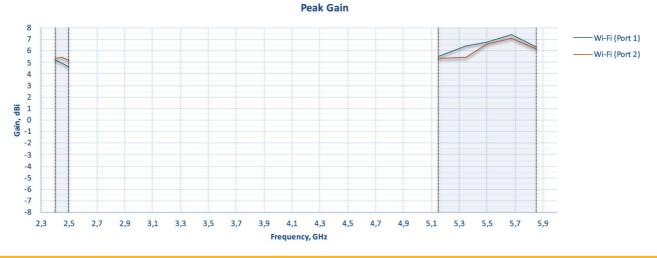




### Wi-Fi Antenna Performance



Wi-Fi Antenna Gain



Wi-Fi Antenna Efficiency

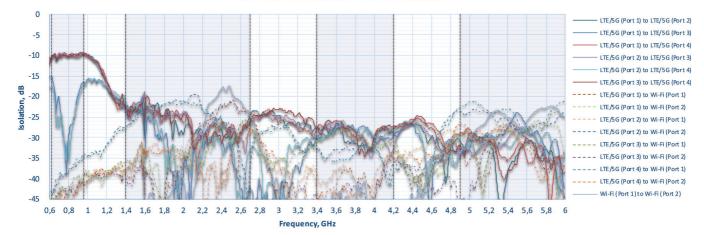




### Cellular & Wi-Fi Antenna Performance

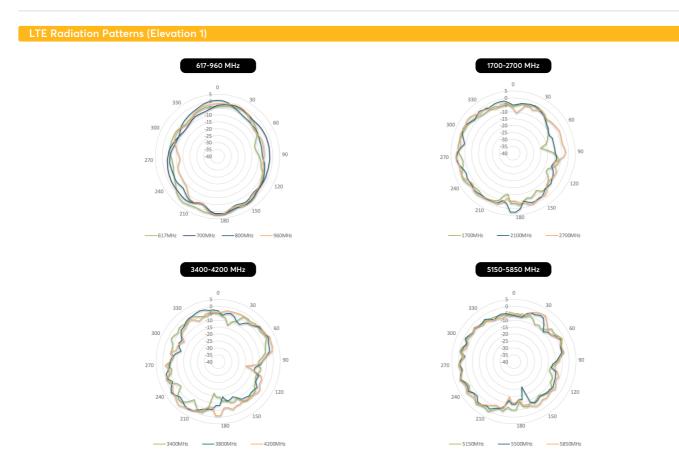
#### Cellular & Wi-Fi Antenna Isolation



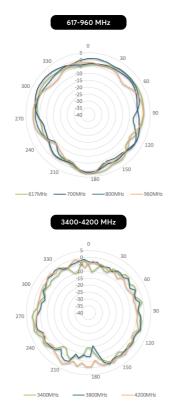


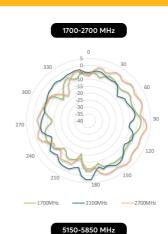


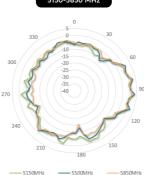
### **Radiation Pattern**



#### LTE Radiation Patterns (Elevation 2)



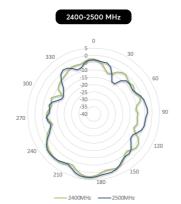


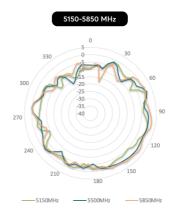




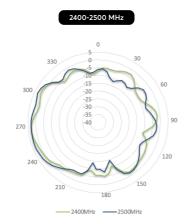
### **Radiation Pattern**

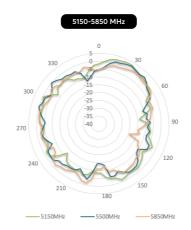
#### Wi-Fi Radiation Patterns (Azimuth)



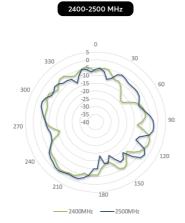


#### Wi-Fi Radiation Patterns (Elevation 1)

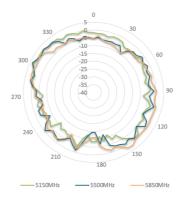




#### Wi-Fi Radiation Patterns (Elevation 2)



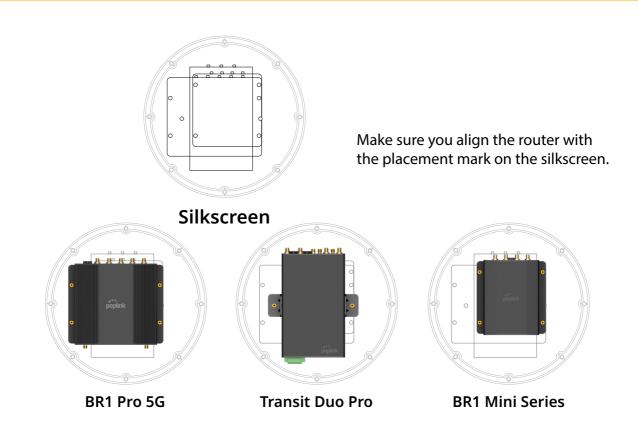






#### Installation Recommendation





Install Router



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





#### 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 2

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

The holes which are not used should use **ethernet hole plug** to seal the hole securely.

#### Installation Recommendation

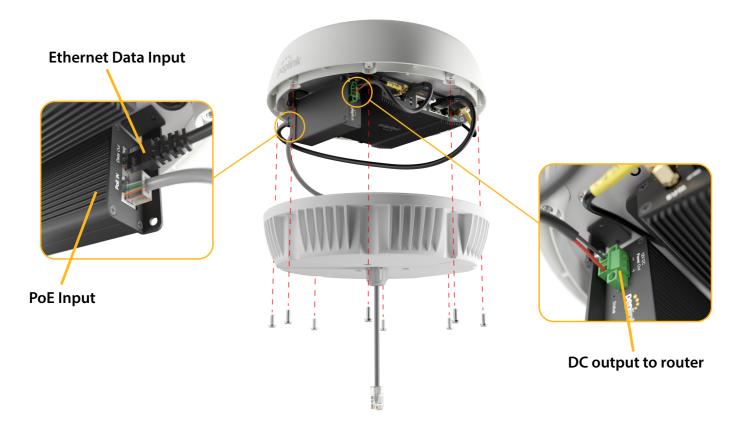
Attach Bottom Cover



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.









### Installation Recommendation

Wall Mount



Pole Mount



**Vertical Pole** 

**Horizontal Pole** 





### Installation Recommendation

Surface Mount



Deck Mount



Note: The deck mount kit is **NOT included** in the package.

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