

PEPWAVE



peplink x STARLINK

# Antenna MAX S

Rapid Deployment.  
All-in-One. 5G + Starlink.

Integrated Antenna Enclosure for Peplink and Starlink

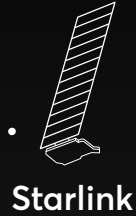
**TAA**   
COMPLIANT

## Integration to the MAX

One enclosure. One install. All performance.



Cellular



Starlink

The **Antenna MAX S** takes hybrid connectivity to the MAX by combining the power of Starlink and cellular in a **single, integrated enclosure**.



With built-in **4x 5G/LTE**, **Wi-Fi**, and **GPS** antennas, you can install your **Peplink router** and **Starlink Mini** together with no external RF cables required to virtually eliminate signal loss and maintain maximum signal quality.

## peplink × STARLINK

Use **Peplink's SpeedFusion** to seamlessly bond or failover between Starlink and 5G, ensuring continuous, high-quality connectivity even in areas with physical obstructions.



## Durability to the **MAX**

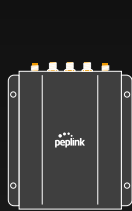
The Antenna MAX S is engineered for outdoor longevity, built with UV- and salt-resistant plastics, fitted with a metal base for heat dissipation, designed to withstand high wind loads for fixed or mobile applications.



## Convenience to the MAX

Designed for flexible deployment, the Antenna MAX S includes extra room for a user-installed internal power module powered via DC or PoE input.

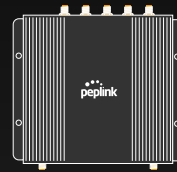
Use the top cover's watertight clasp system to conveniently secure the Peplink router of your choice:



BR1 Mini Series <sup>1</sup>



Transit Duo Pro

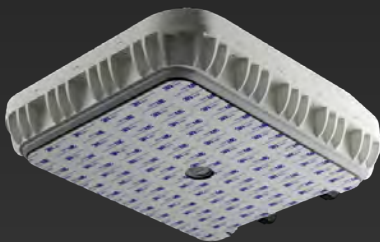


BR1 Pro Series <sup>2</sup>

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

<sup>2</sup> BR1 Pro series: BR1 Pro 5G, BR1 Pro CAT-20

Mount it your way with a variety of installation options ideal for vehicles, rooftops, poles, or even custom rack systems.



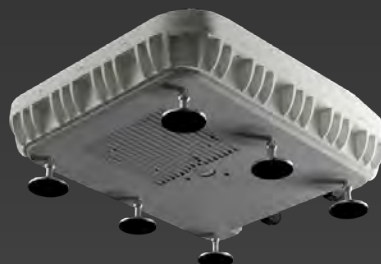
Surface Mount



Deck Mount



Pole Mount



Magnetic Mount

Note: The deck and magnetic mount kits is **NOT included** in the package.

## Value to the MAX

Designed for performance and priced for practicality, the Antenna MAX S delivers an all-in-one Starlink and cellular solution at a price that makes sense for businesses, fleets, and integrators alike.

Whether you're operating from a remote location, working in an RV, or maintaining mission-critical connections on the move, it saves time, space, and cost - without compromising performance.





## Specifications

### Cellular

<b>Antenna Elements</b>	4 elements
<b>Peak Gain &amp; Frequencies</b>	5.7dBi: 617-960MHz 6.8dBi: 1410-2700MHz 8.9dBi: 3300-4400MHz 7.3dBi: 5000-6000MHz
<b>VSWR</b>	< 2.5 over 95% of the band
<b>Feed Power Handling</b>	10W
<b>Input Impedance</b>	50 Ω
<b>Polarisation</b>	Linear
<b>Connectors</b>	Right angle SMA male

### Wi-Fi

<b>Antenna Elements</b>	2 elements
<b>Peak Gain &amp; Frequencies</b>	6.3dBi: 2400-2500MHz 7.4dBi: 5000-6000MHz
<b>VSWR</b>	< 3.0
<b>Feed Power Handling</b>	10W
<b>Input Impedance</b>	50 Ω
<b>Polarisation</b>	Linear
<b>Connectors</b>	Right angle RP-SMA male

### GPS

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

## Specifications

Mounting		Mechanical	
<b>Supported Types</b>	Surface, Pole, Magnet, Vehicle roof racks or Custom mounts	<b>Product Dimensions</b>	17.6" / 448 mm - Length 14.5" / 368 mm - Width 5.3" / 135 mm - Height
Package Contents		<b>Packaged Dimensions</b>	585 x 456 x 185 mm / 23.03" x 17.95" x 7.28"
<b>Package Contents</b>	Antenna MAX S L-Mount Set Power supply/splitter mounting set Router fixation screws 2pcs M25 cable glands 1pcs M25 hole plug 2pcs RJ45 glands 2pcs RJ45 caps 2pcs Hole plug 1pcs DC Cable Connector 1pcs Starlink power cable (35.4" / 900 mm) 1pcs Starlink Ethernet cable (35.4" / 900 mm) 1pcs Double sided 3M adhesive pad 1pcs Ethernet cable (7.87" / 200 mm) 1pcs DC cable (3.93" / 100 mm)	<b>Enclosure Material</b>	Bottom plate - Aluminium Other parts - UV stable PC
Environmental, Compliance			
<b>IP Rating</b>	IP67	<b>Compliance</b>	ROHS, REACH, WEEE
<b>Operating Temperature</b>	-40° - 176°F / -40° - 80°C	<b>Enclosure Flammability</b>	UL 94 V-0 (1.47 mm)
<b>Storage Temperature</b>	-40° - 176°F / -40° - 80°C	<b>UV resistance</b>	UL 746C (F1 long-term UV exposure)
		<b>Salt Spray</b>	ASTM B117

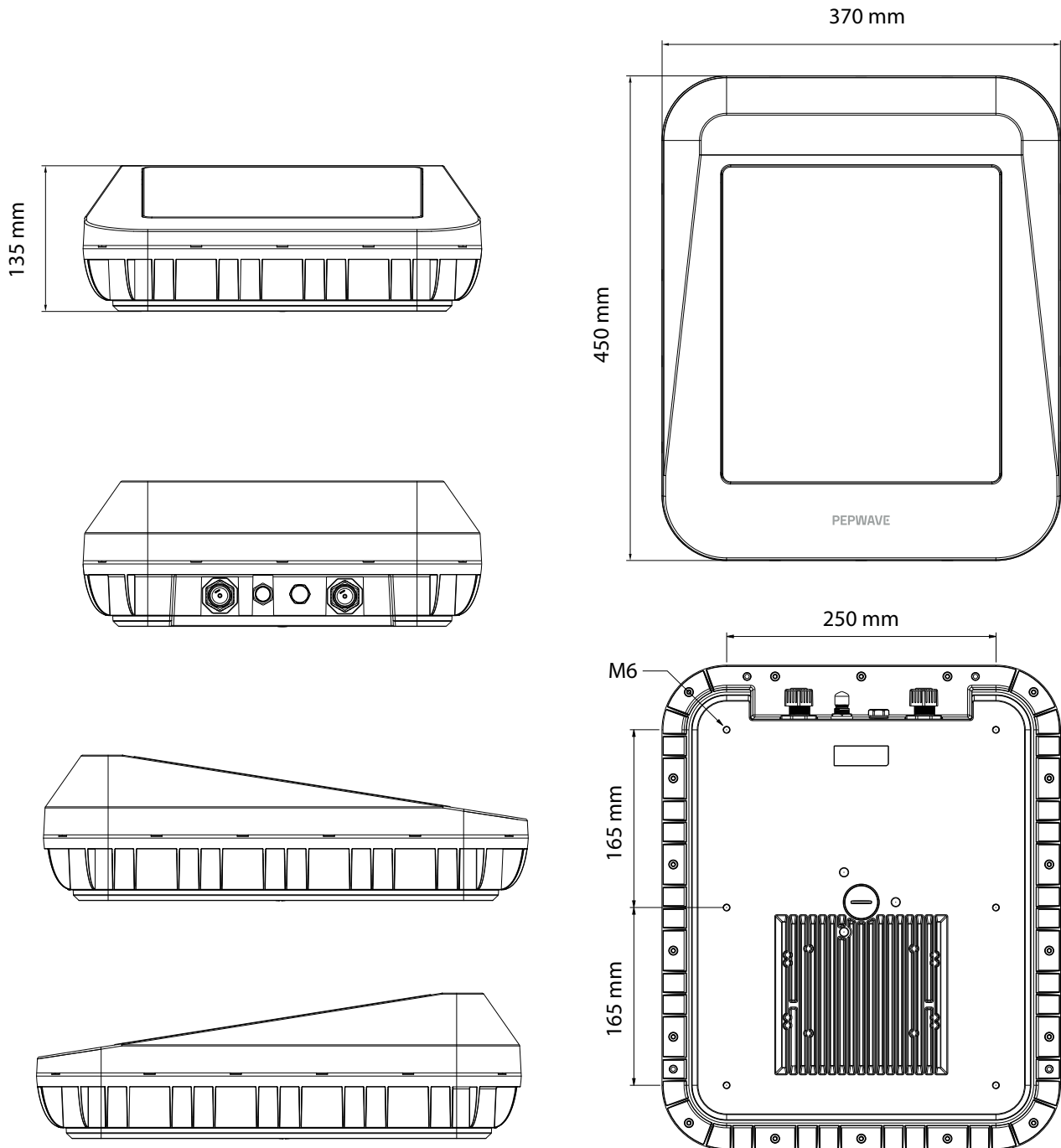
## Ordering Information

Product Code	Description
ANT-MAX-S	Enclosure with integrated 4x 5G/LTE, 2x Wi-Fi, GPS antennas for Peplink routers and Starlink Mini bundle solution.

## Featured Add-on

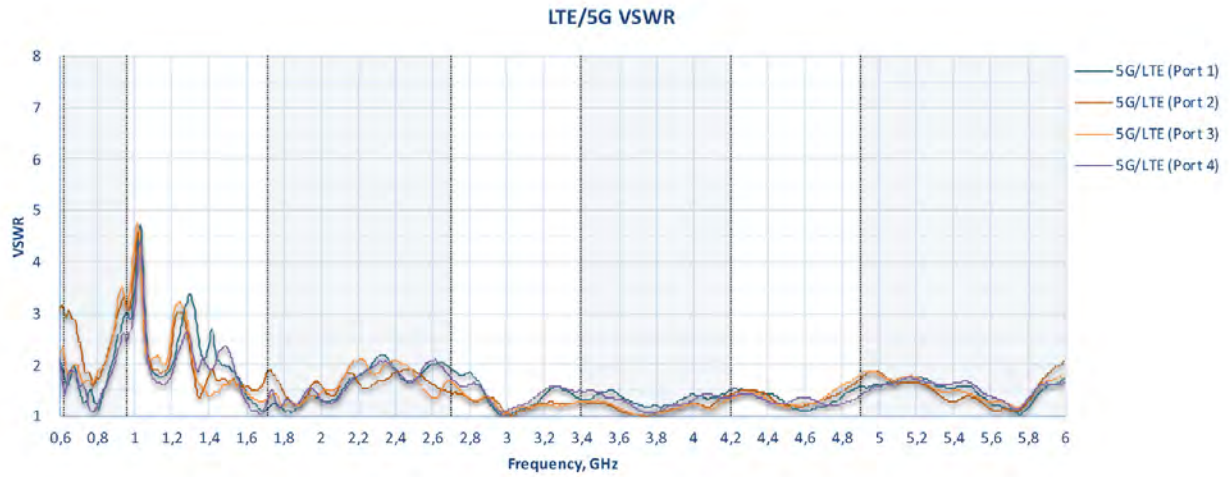
Product Code	Description
ACW-651	1" 14 TPI female to Mobility thread for deck mount
ACW-653A	1 1/4" 11 TPI male adapter for deck mount

## Technical Drawing

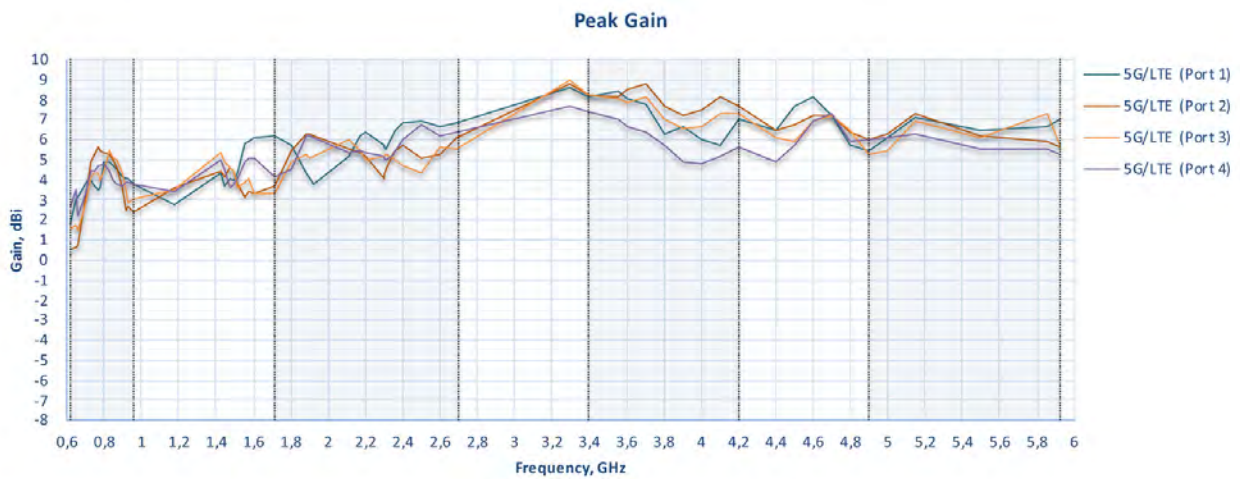


## Cellular Antenna Performance

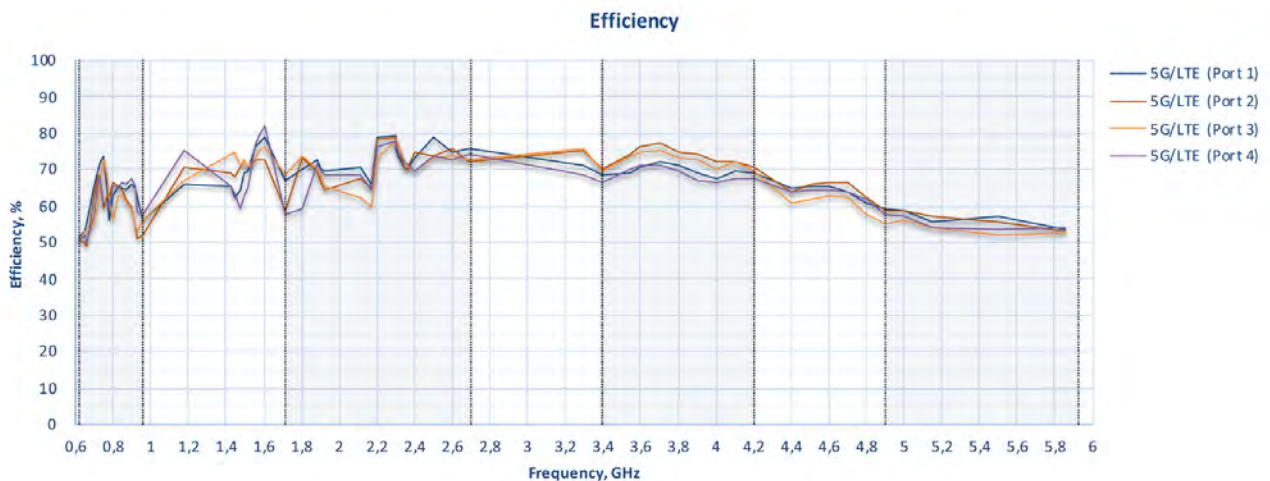
### Cellular Antenna VSWR



### Cellular Antenna Gain

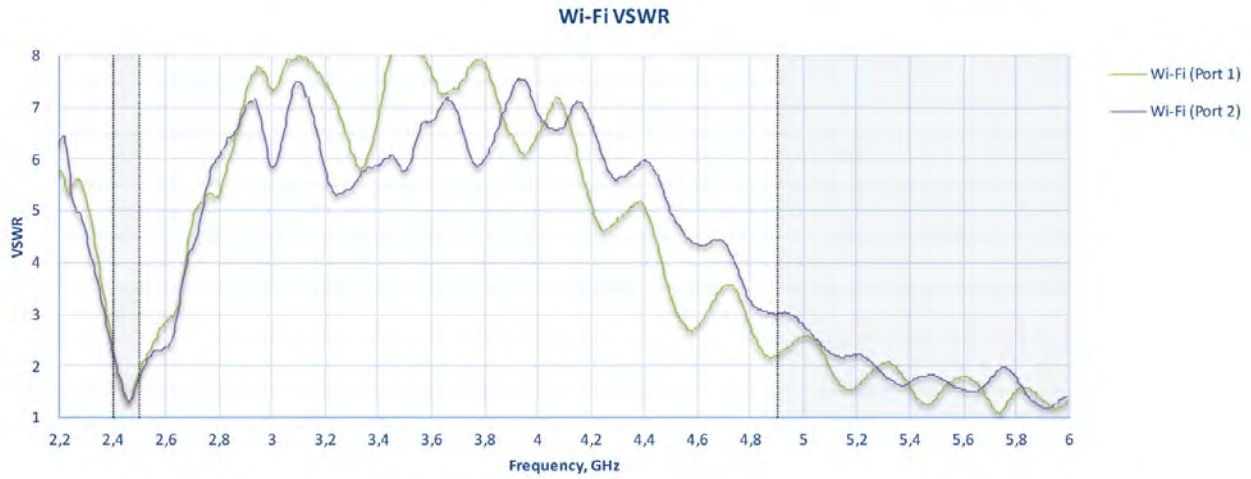


### Cellular Antenna Efficiency

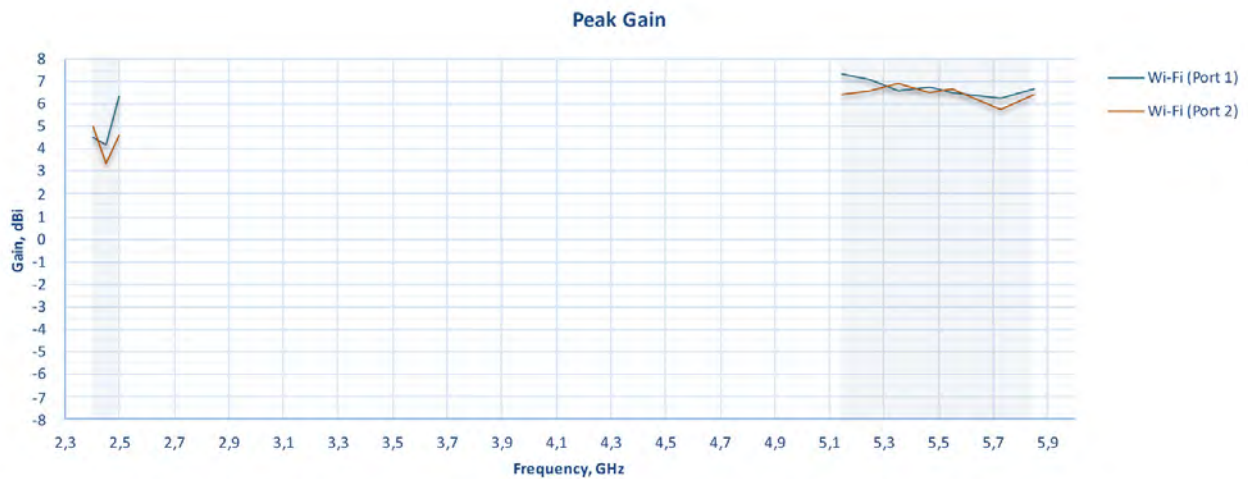


## Wi-Fi Antenna Performance

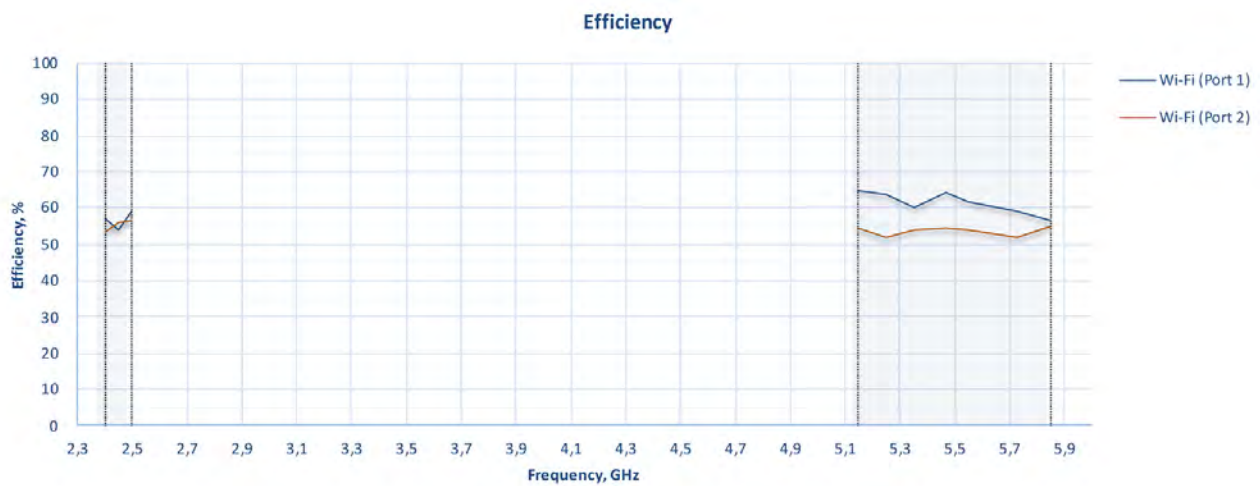
### Wi-Fi Antenna VSWR



### Wi-Fi Antenna Gain

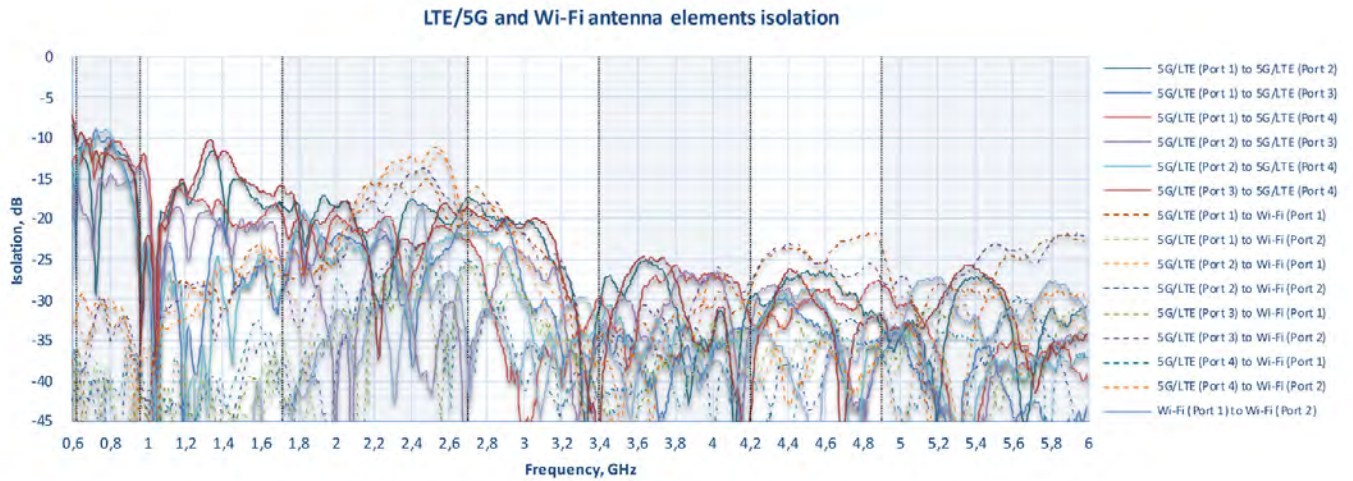


### Wi-Fi Antenna Efficiency



## Cellular & Wi-Fi Antenna Performance

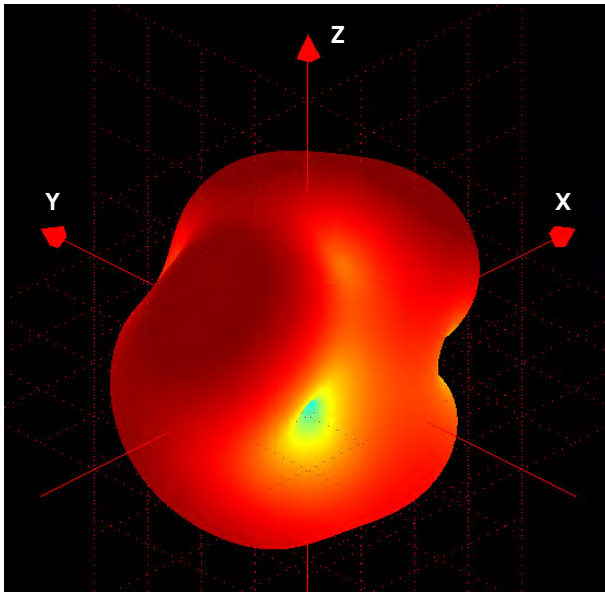
### Cellular & Wi-Fi Antenna Isolation



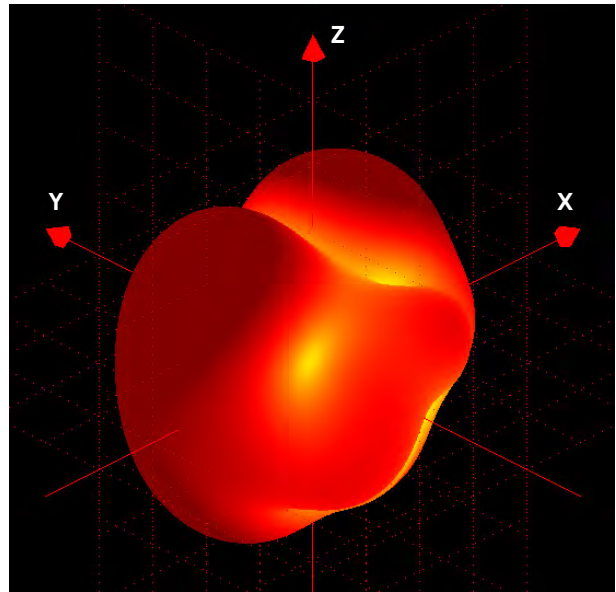
## Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

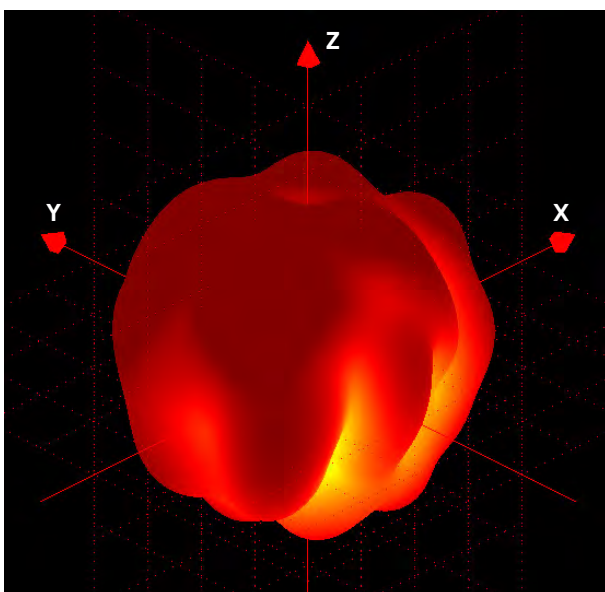
617 MHz



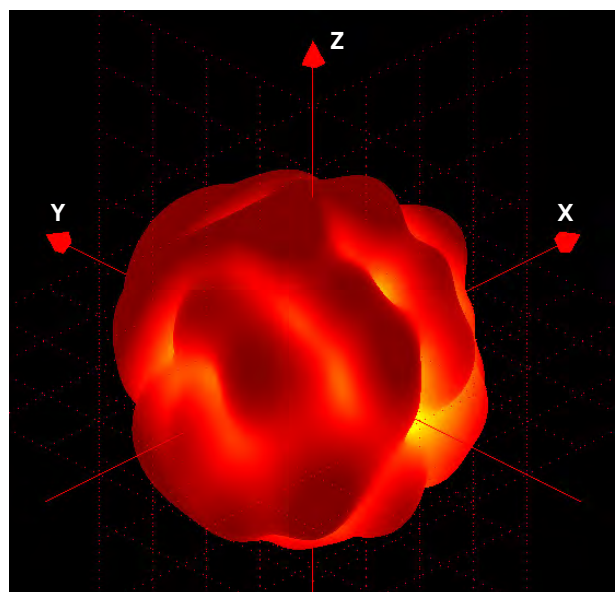
798 MHz



1496 MHz



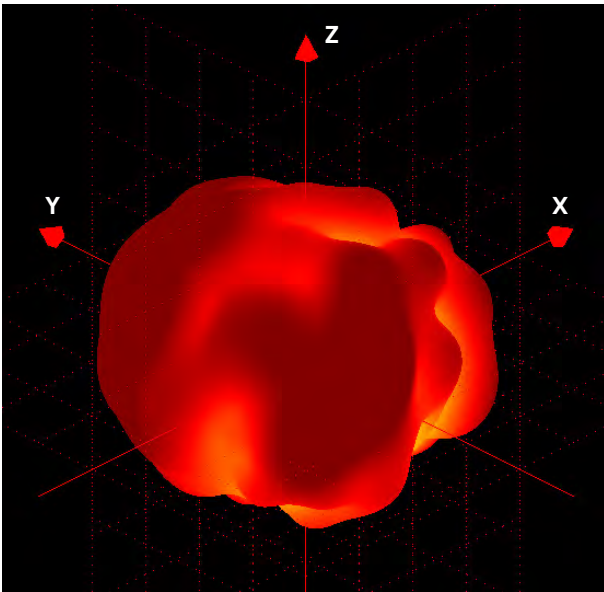
1805 MHz



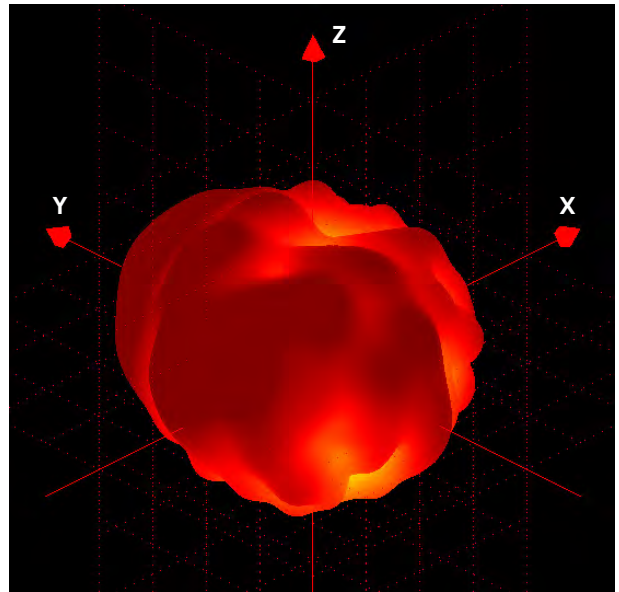
## Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

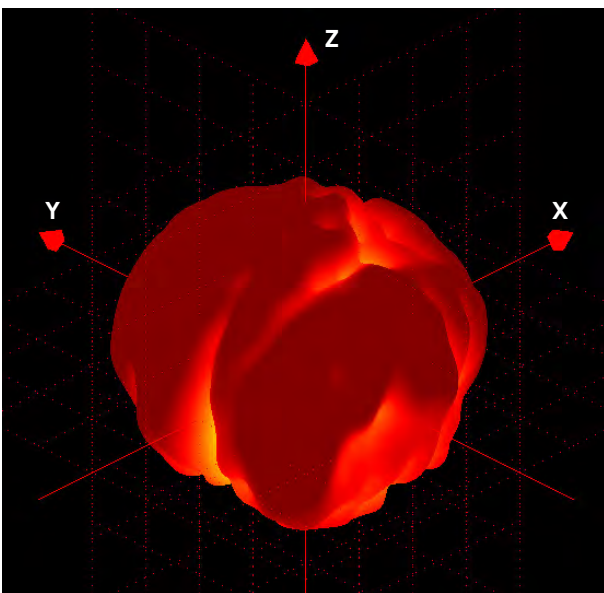
2110 MHz



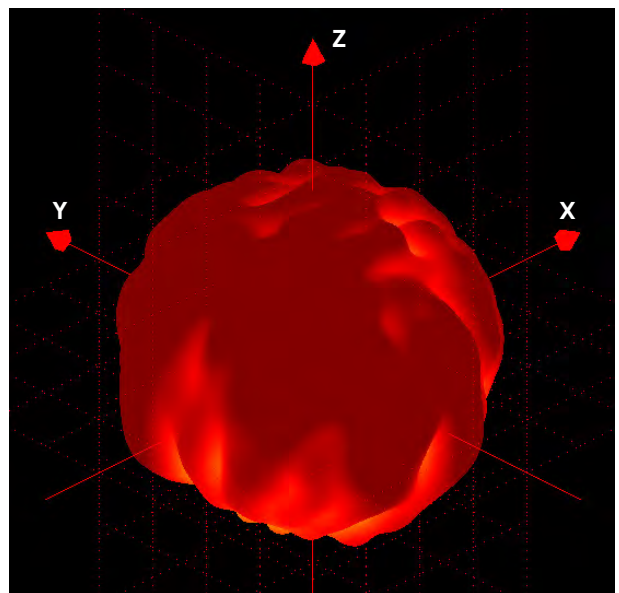
2400 MHz



3550 MHz

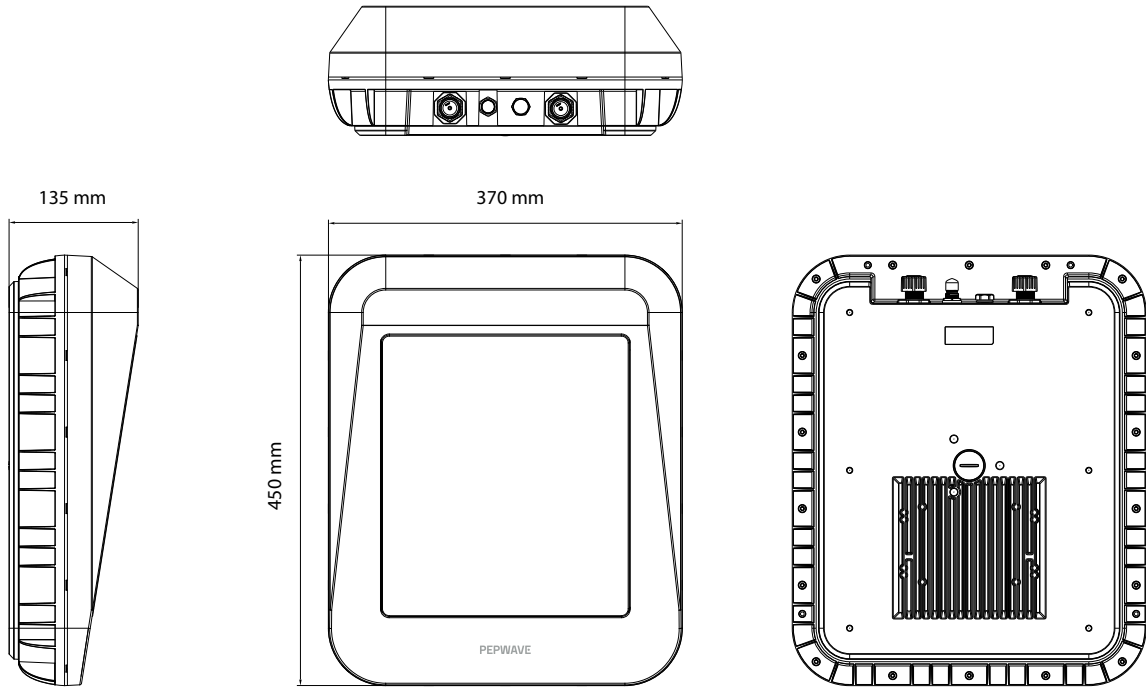


3800 MHz



## Packing List Information

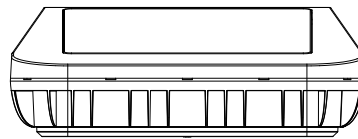
### Antenna



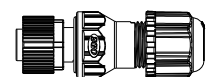
L-wrench  
(T20 M4\*8)



M25 hole plug  
(1 pcs)



RJ45 Caps  
(2 pcs)



DC Cable Connector  
(1 pcs)



Bolt  
(28 pcs, T20 M4xL8)  
Cover



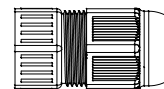
Bolt  
(4 pcs, T20 M4xL8)  
PoE



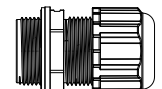
M4 Spring Washer  
(4 pcs)



M4 HEX Standoff Screw  
(4 pcs)

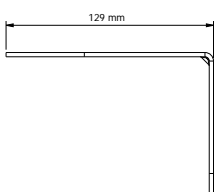


RJ45 Gland  
(2 pcs)

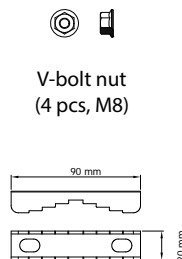
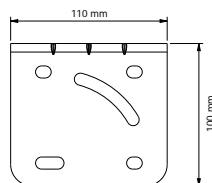


M25 Cable Gland  
(2 pcs)

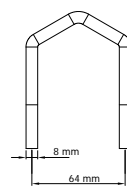
### L-Mount Mount Set



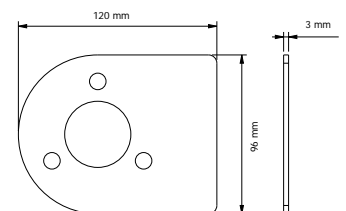
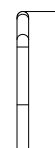
L-Mount



Bracket  
(2 pcs)



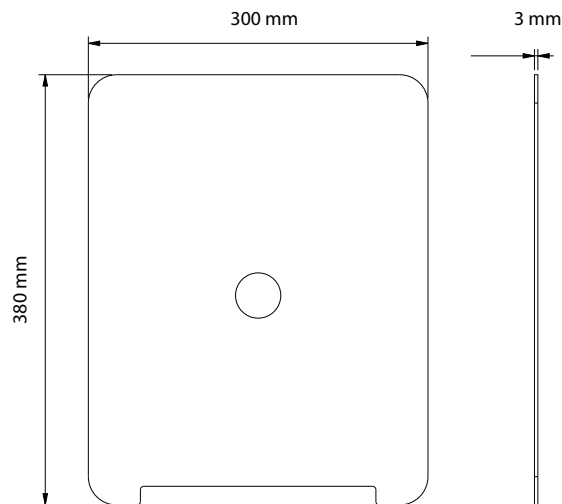
V-bolt  
(2 pcs)



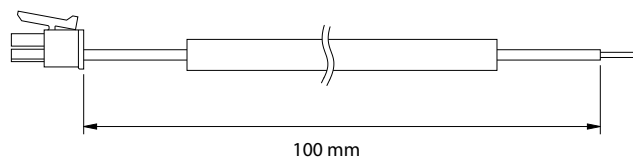
Rubber Pad  
(1 pcs)

## Packing List Information

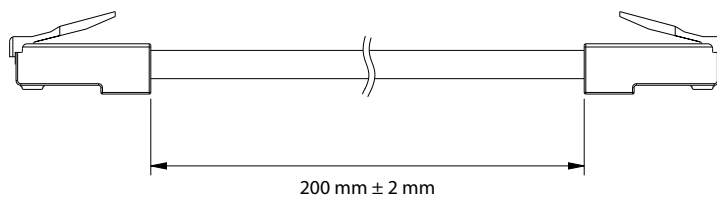
### Adhesive Pad



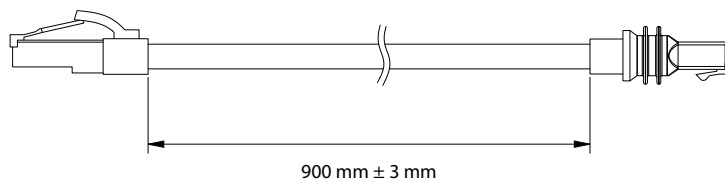
### Cables



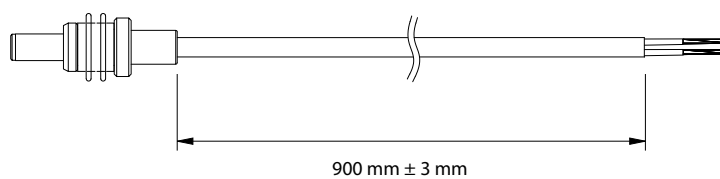
DC Cable



Ethernet Cable



Starlink Ethernet cable

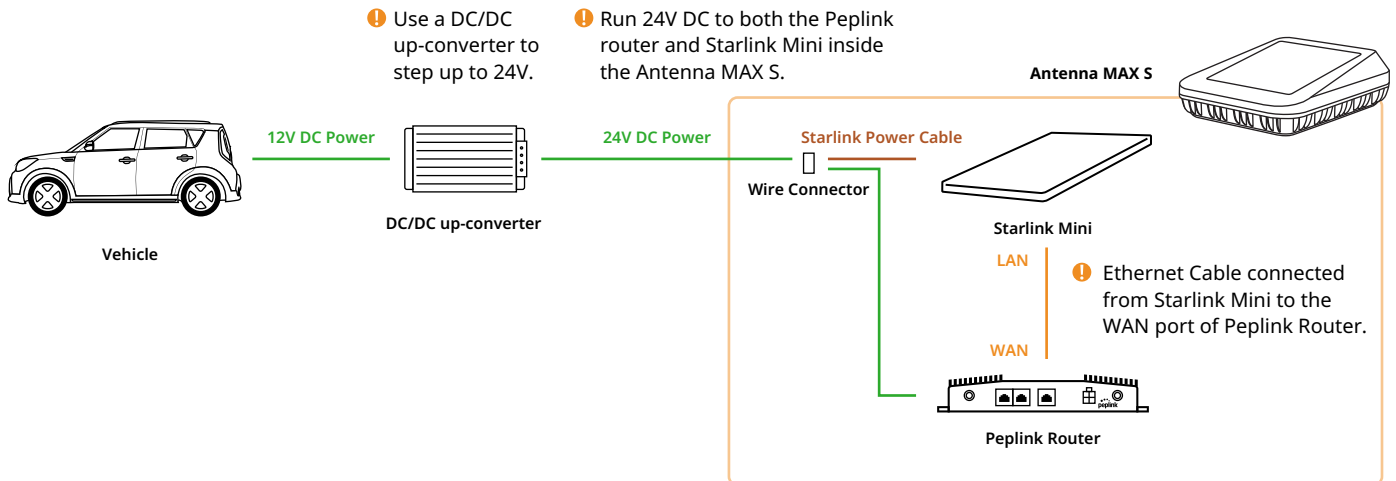


Starlink power cable

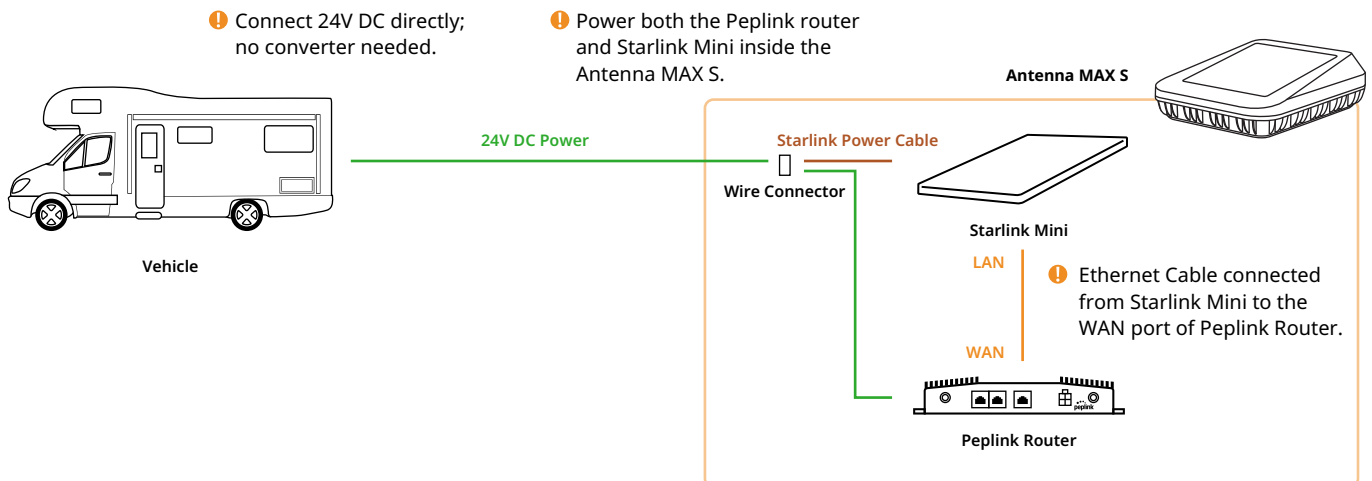
## FAQ

Q. What are the recommended vehicle power setups for Antenna MAX S with Peplink router and Starlink Mini?

### 12V Vehicle Battery



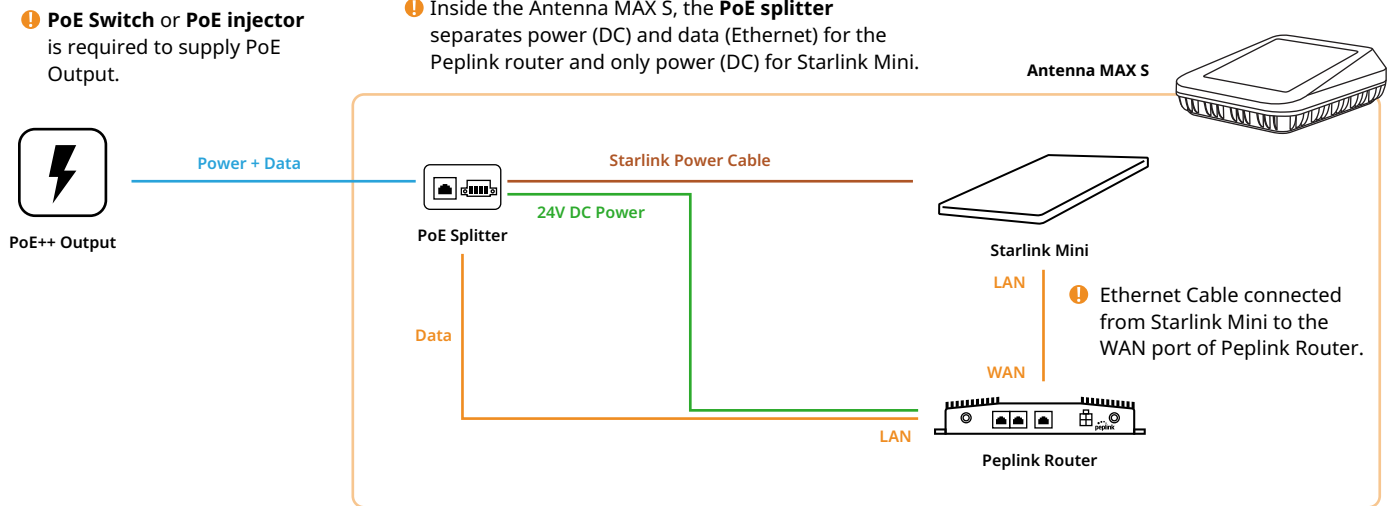
### 24V Vehicle Battery



## FAQ

Q. How does Power over Ethernet (PoE) work for Antenna MAX S installations?

802.3bt 90W PoE



**Advantec Srl**  
Via Caduti per la Libertà, 13  
10060 Pinasca TO - Italy  
Tel. +39 0121326770  
info@advantec.it - www.advantec.it