

PEPWAVE



peplink x STARLINK

Antenna MAX S HW3

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

Integrated Antenna Enclosure for Peplink and Starlink

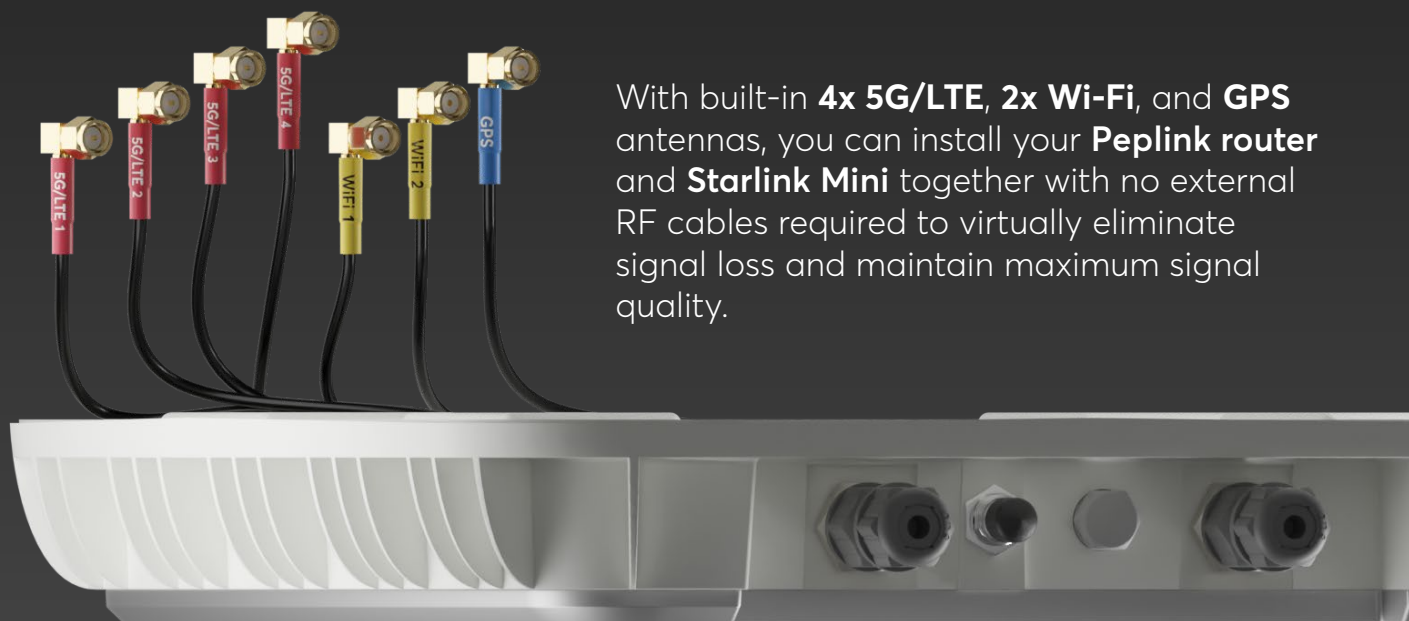
TAA 
COMPLIANT

Integration to the MAX

One enclosure. One install. All performance.



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**, **2x 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.



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**

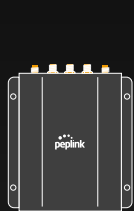
The Antenna MAX S is engineered for outdoor longevity, built with UV- and salt-resistant plastics, fitted with a metal base for heat dissipation, designed to withstand high wind loads for fixed or mobile applications.



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.

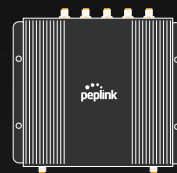
Use the top cover's watertight clasp system to conveniently secure the Peplink router of your choice:



BR1 Mini Series ¹



Transit Duo Pro



BR1 Pro Series ²

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

² BR1 Pro series: BR1 Pro 5G, BR1 Pro CAT-20.

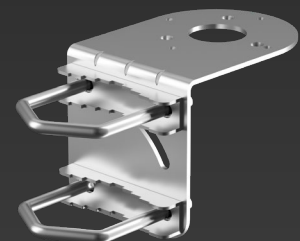
Mount it your way with a variety of installation options ideal for vehicles, rooftops, poles, or even custom rack systems.



Surface Mount



Deck Mount



Pole Mount



Magnetic Mount

Note: The deck and magnetic mount kits are **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

Antenna Elements	4 elements
Peak Gain & Frequencies	5.7dBi: 617-960MHz 6.8dBi: 1410-2700MHz 8.9dBi: 3300-4400MHz 7.3dBi: 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	6.3dBi: 2400-2500MHz 7.4dBi: 5000-6000MHz
VSWR	< 3.0
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

Mounting

Supported Types Surface, Pole, Magnetic, Vehicle roof rack, or Custom mounts

Package Contents

Package Contents Antenna MAX S
L-mount set
Power supply/splitter mounting set
Router fixation screws
2pcs M25 cable glands
1pc M25 hole plug
2pcs RJ45 glands
2pcs RJ45 caps
2pcs Hole plug
1pc DC cable-connector
1pc Starlink power cable (35.4" / 900mm)
1pc Starlink Ethernet cable (35.4" / 900mm)
1pc Double-sided 3M adhesive pad
1pc Ethernet cable (7.87" / 200mm)
1pc DC cable (3.93" / 100mm)

Mechanical

Product Dimensions 17.6" / 448mm - Length
14.5" / 368mm - Width
5.3" / 135mm - Height

Packaged Dimensions 585 x 456 x 185mm / 23.03" x 17.95" x 7.28"

Enclosure Material Bottom plate - Aluminium
Other parts - 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 (1.47mm)

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

Salt Spray ASTM B117

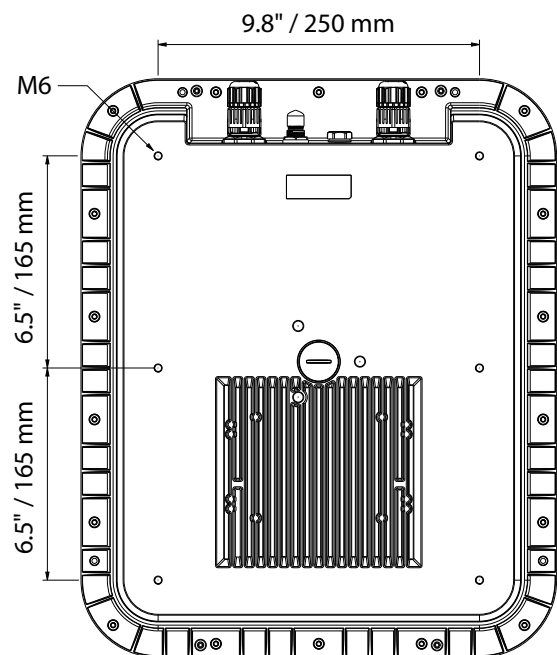
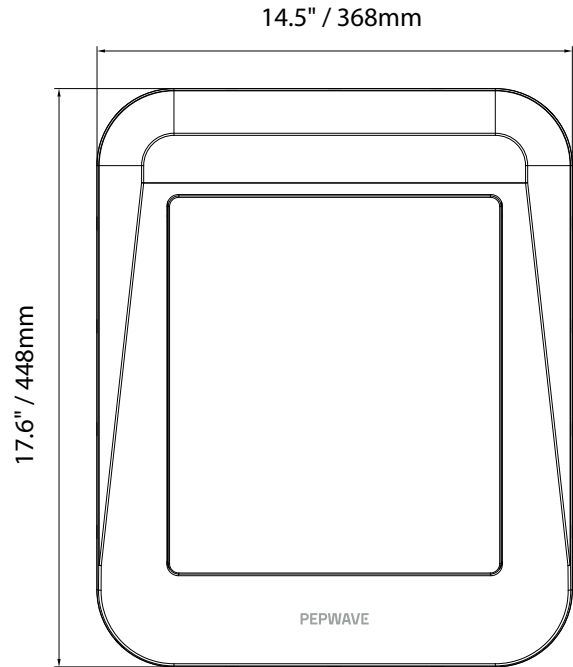
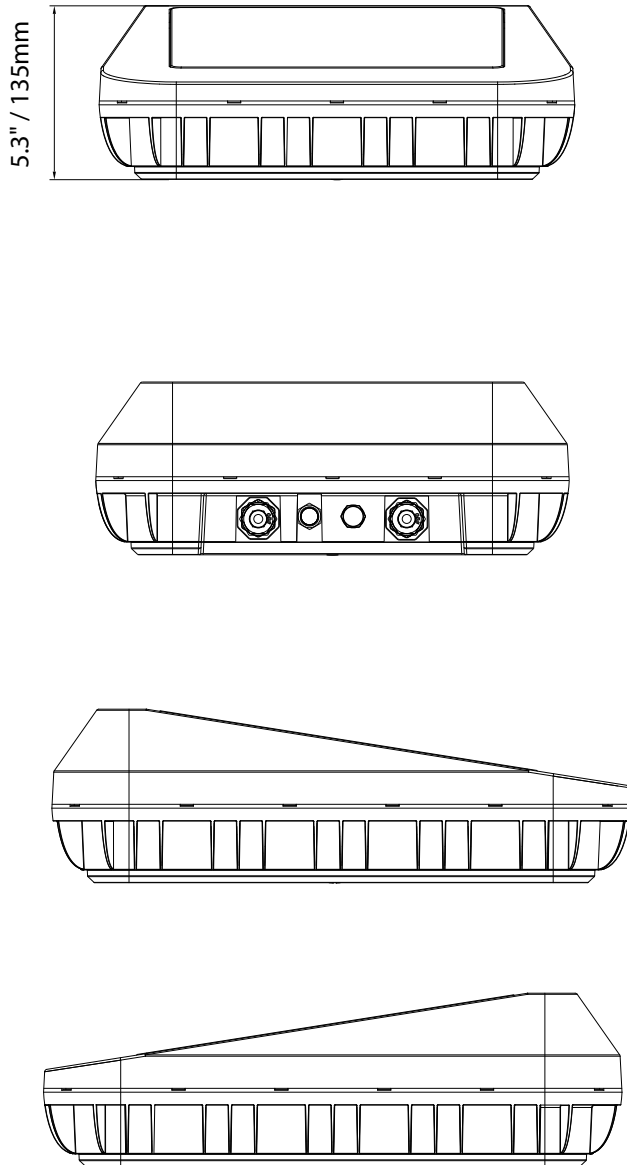
Ordering Information

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

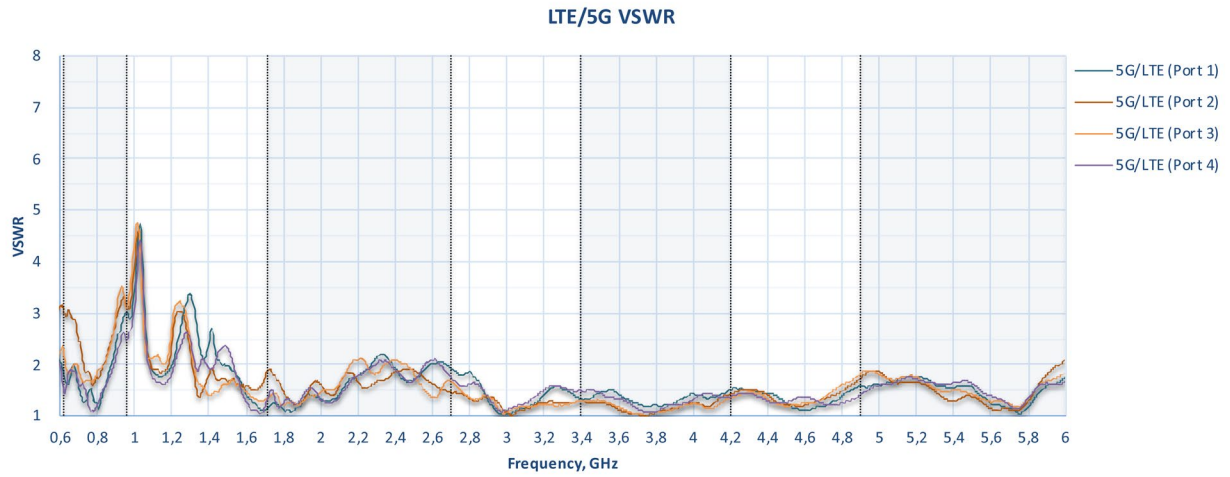
Product Code	Description
ACW-651	1" 14 TPI female to Mobility thread for deck mount
ACW-653A	1 1/4" 11 TPI male adapter for deck mount

Technical Drawing

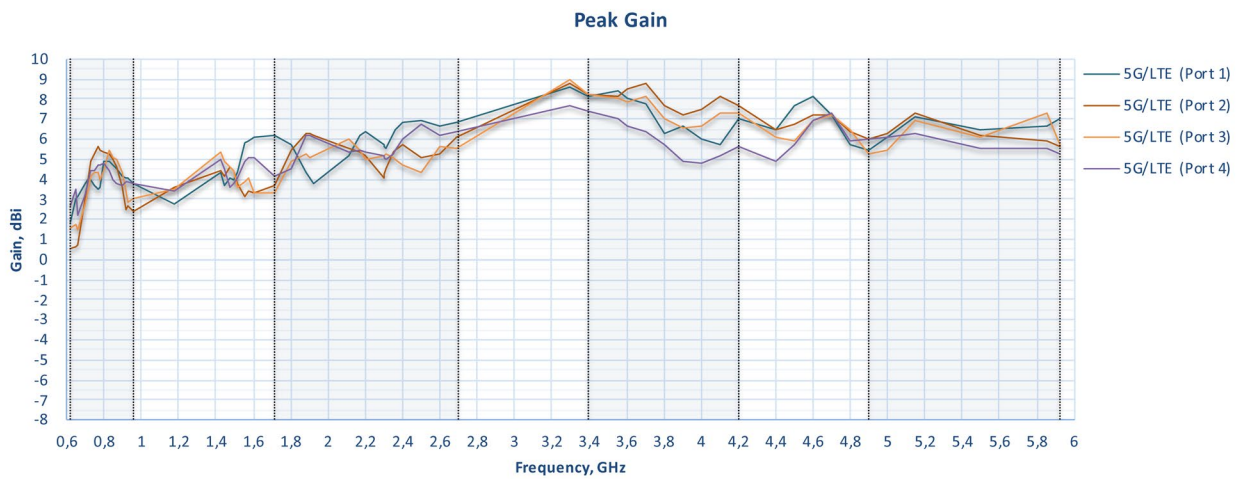


Cellular Antenna Performance

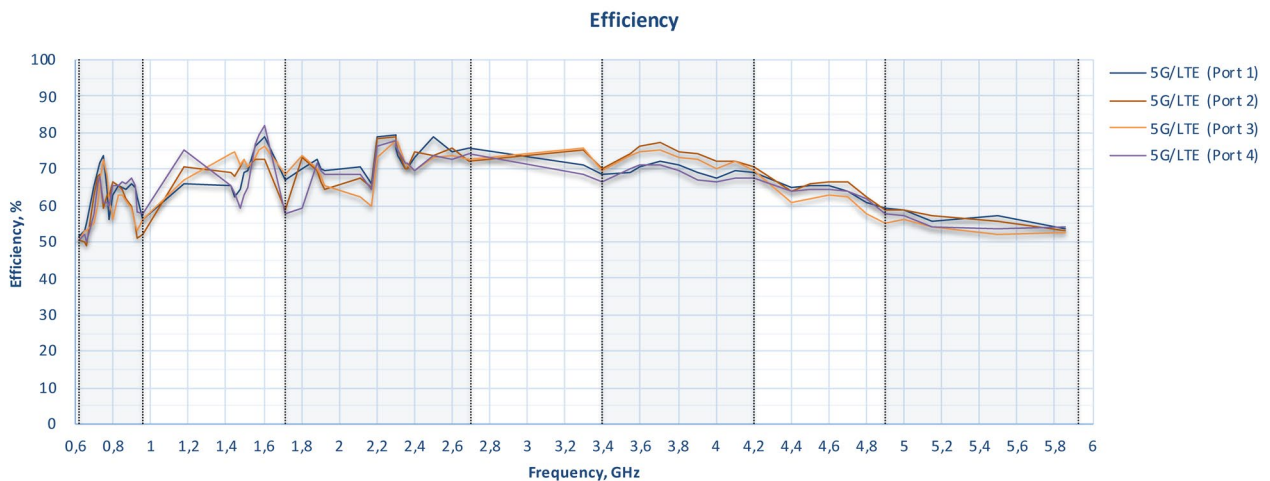
Cellular Antenna VSWR



Cellular Antenna Gain

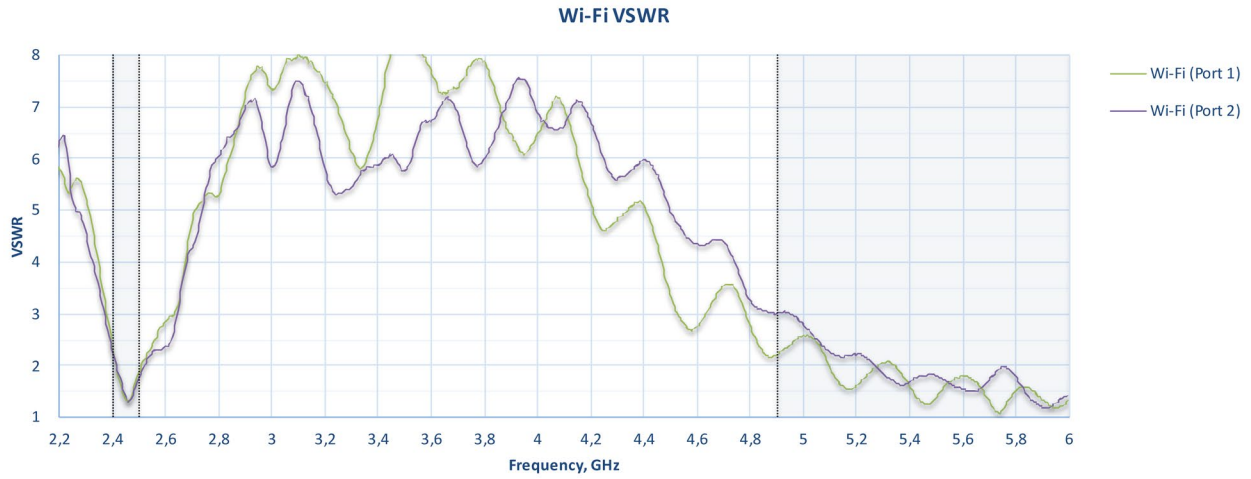


Cellular Antenna Efficiency

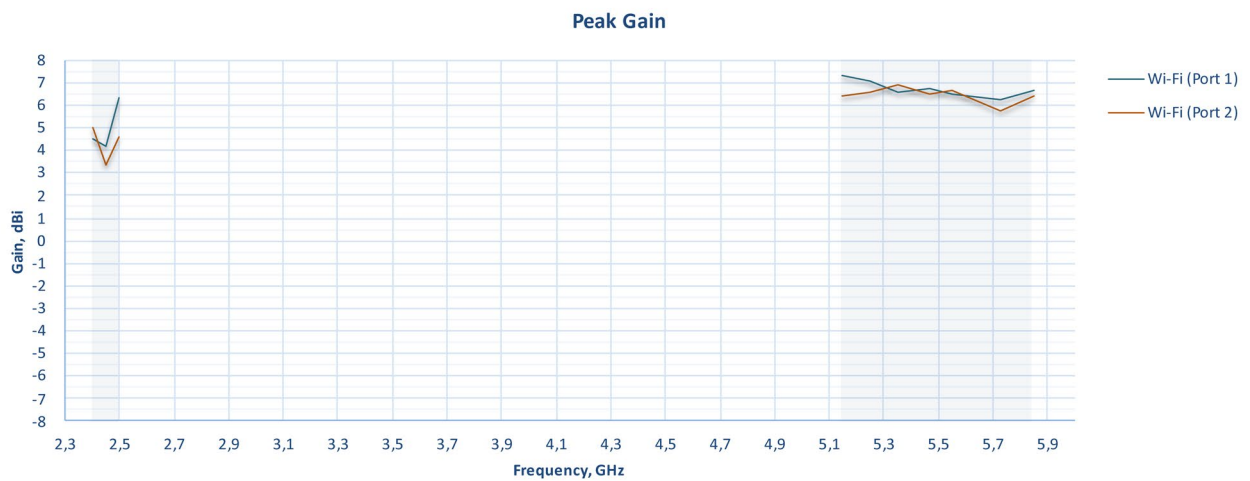


Wi-Fi Antenna Performance

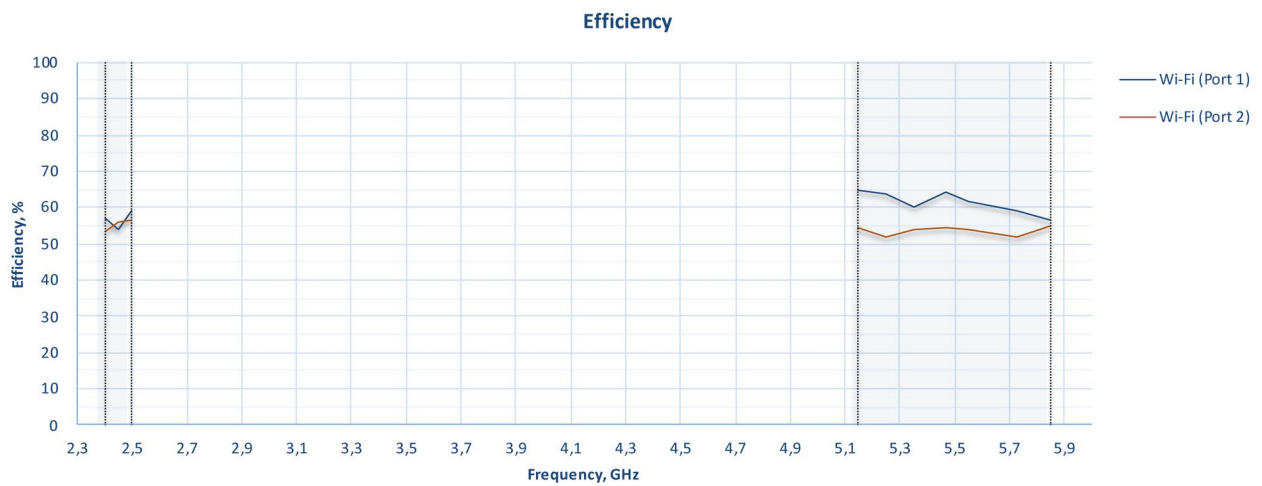
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain

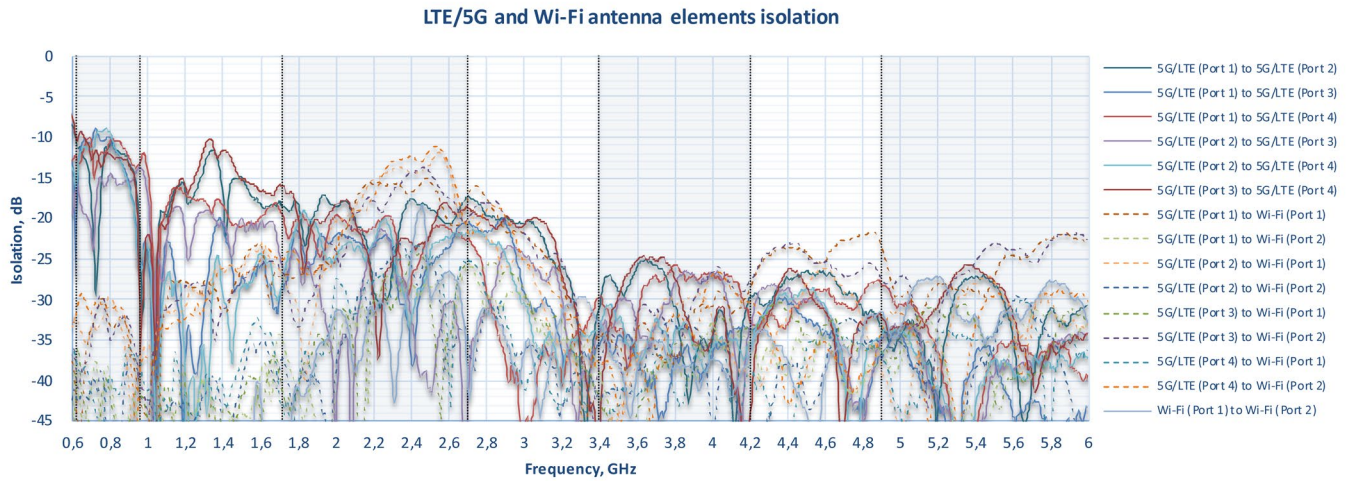


Wi-Fi Antenna Efficiency



Cellular & Wi-Fi Antenna Performance

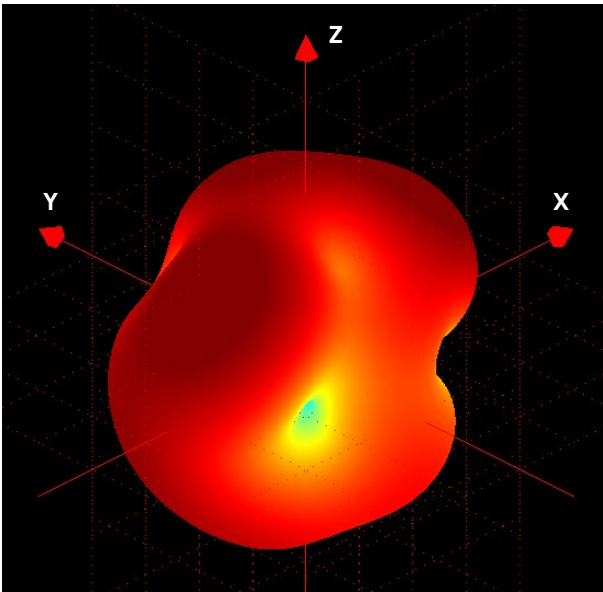
Cellular & Wi-Fi Antenna Isolation



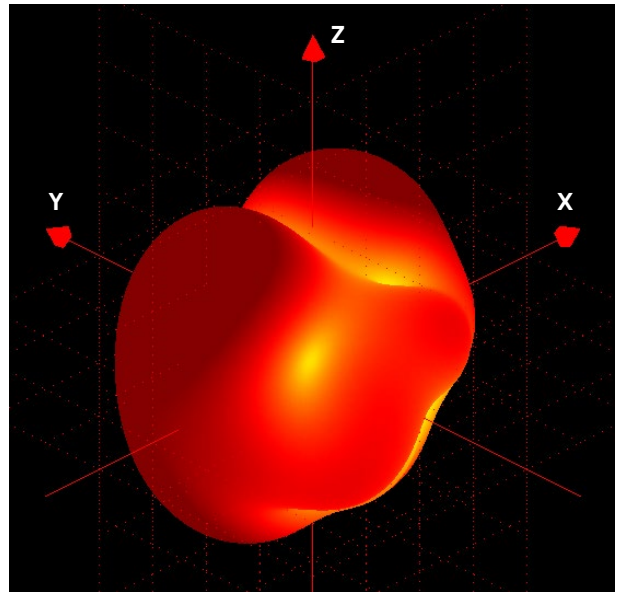
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

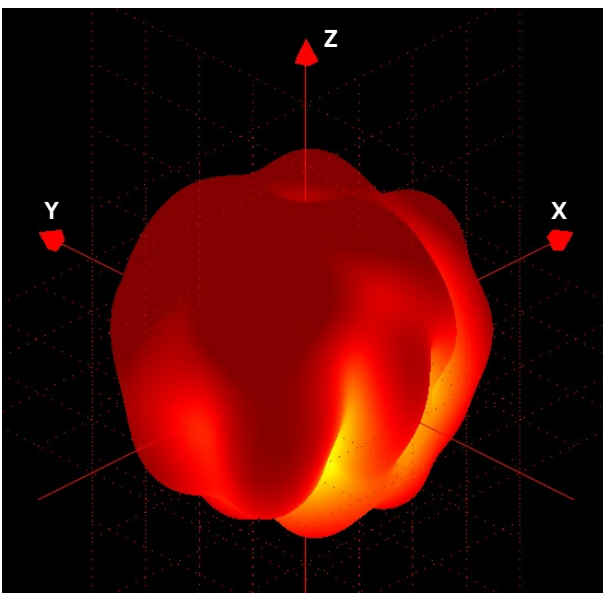
617 MHz



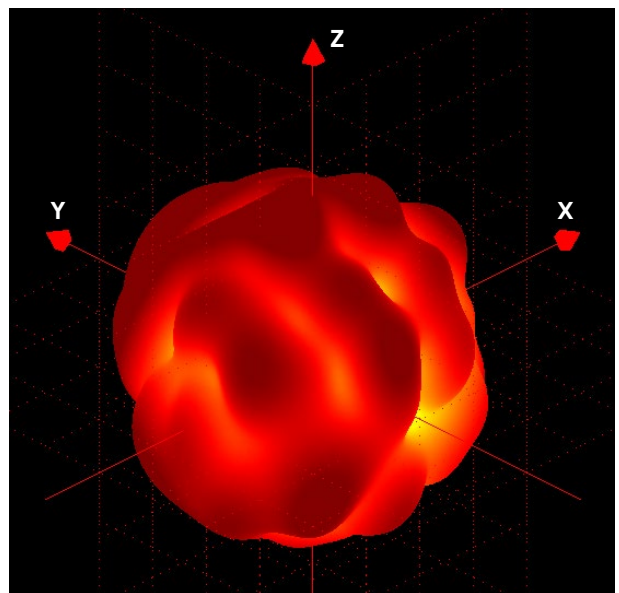
798 MHz



1496 MHz



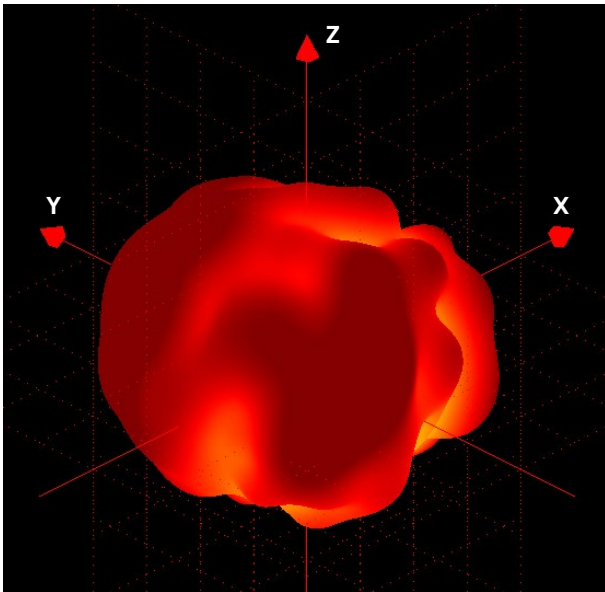
1805 MHz



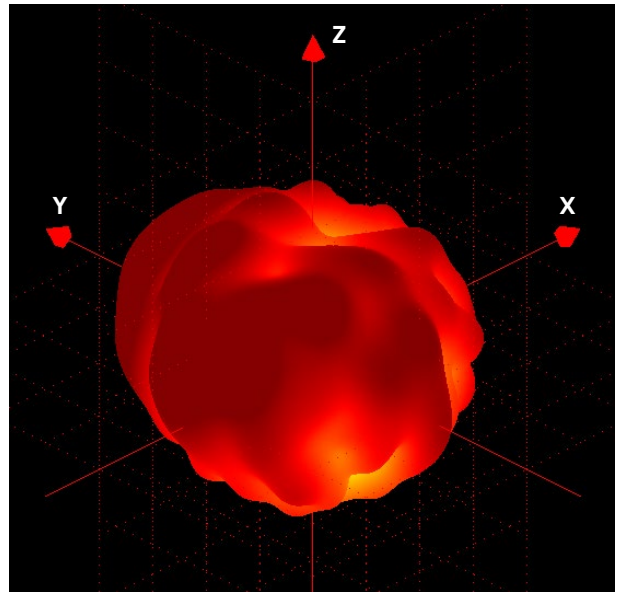
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

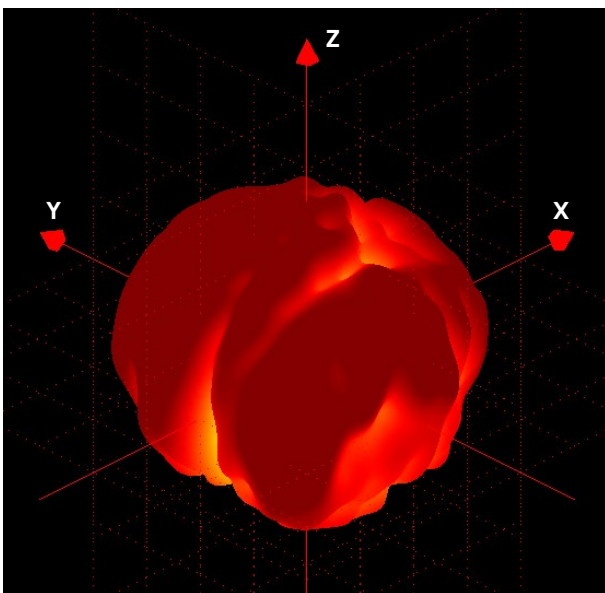
2110 MHz



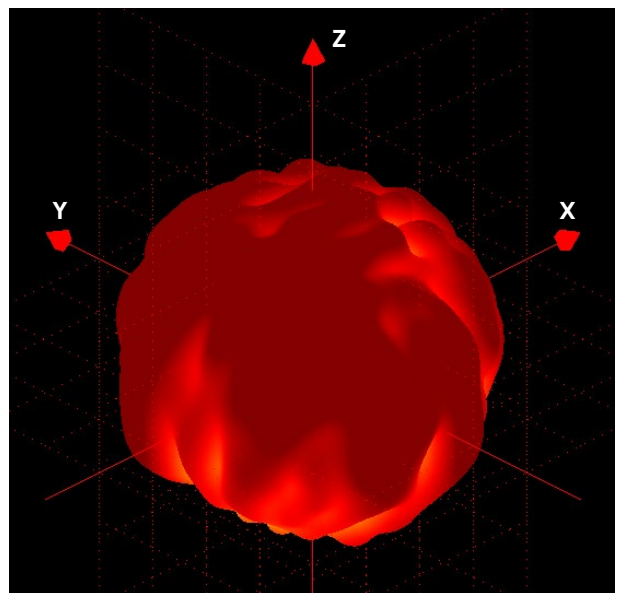
2400 MHz



3550 MHz

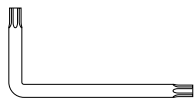
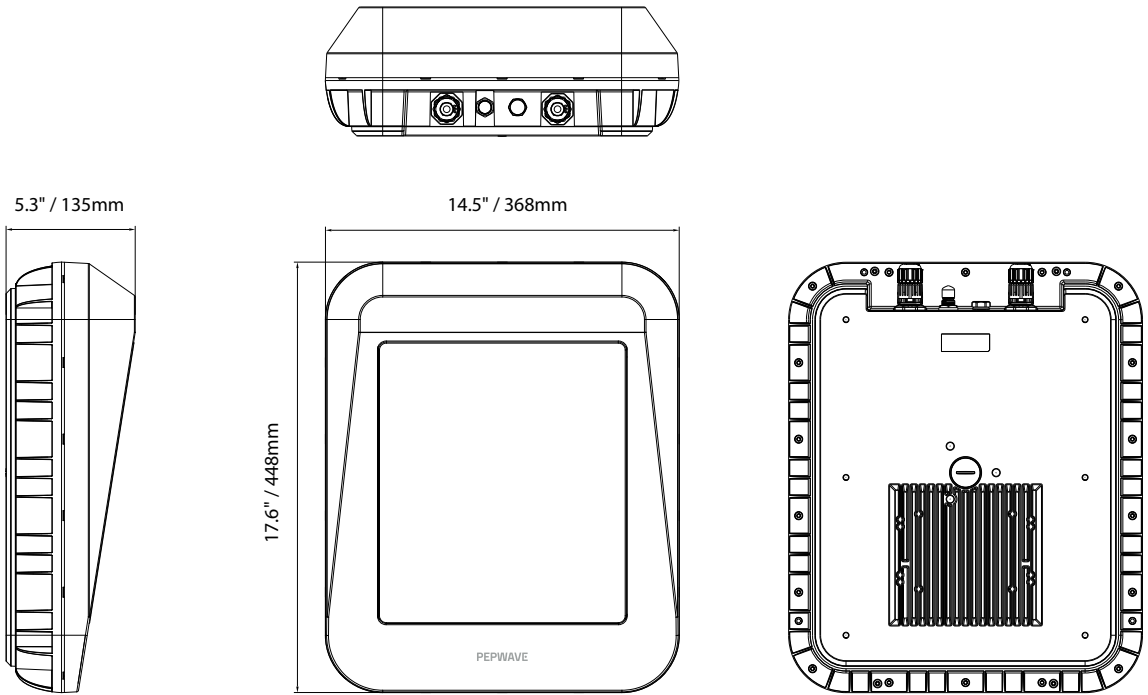


3800 MHz



Packing List Information

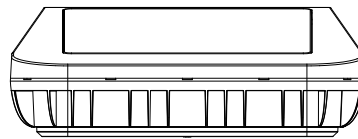
Antenna



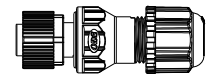
L-Wrench
(T20 M4*8)



M25 Hole Plug
(1 pc)



RJ45 Caps
(2 pcs)



DC Cable Connector
(1 pc)



Bolt
T20 M4xL20
(4 pcs)



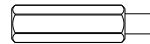
Bolt
T20 M4xL10
(20 pcs)



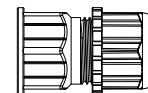
Bolt
T20 M4xL8
(12 pcs)



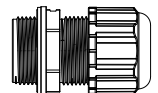
M4 Spring Washer
(4 pcs)



M4 HEX Standoff Screw
(4 pcs)

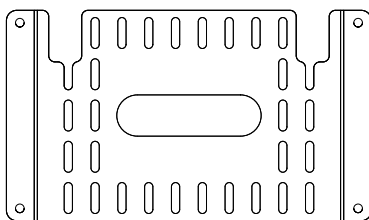


RJ45 Gland
(2 pcs)

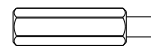


M25 Cable Gland
(2 pcs)

PoE Splitter Mount Set



Splitter MAX S Mount
(1 pc)



M4 HEX Standoff Screw
(4 pcs, M4xL27)



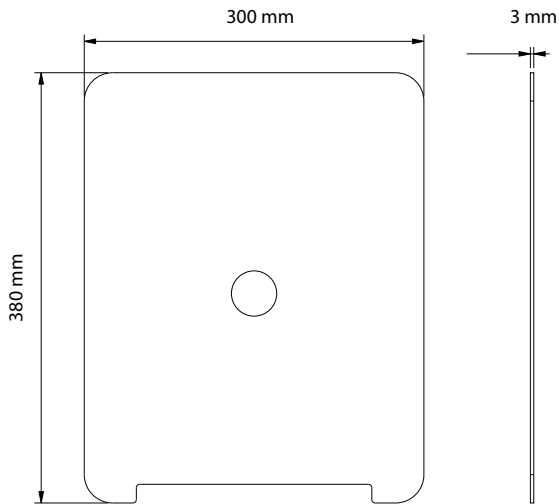
Bolt
(4 pcs, T20 M4xL8)



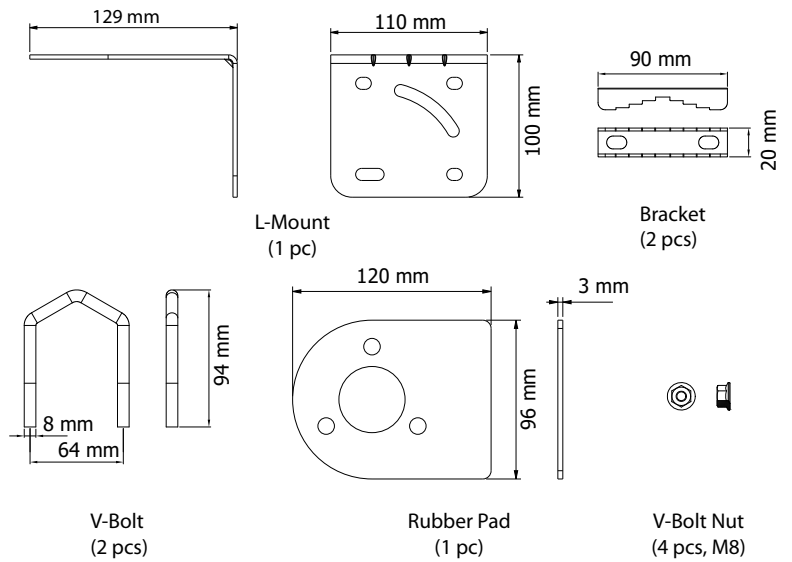
Spring Washer
(4 pcs, M4)

Packing List Information

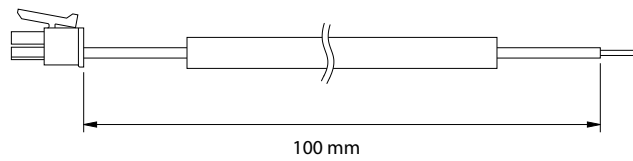
Adhesive Pad



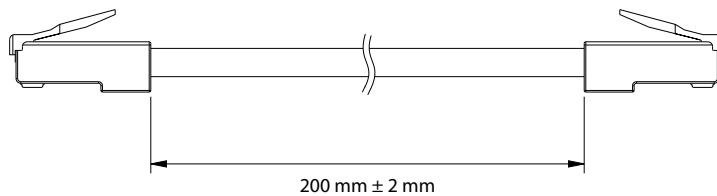
L-Mount Mount Set



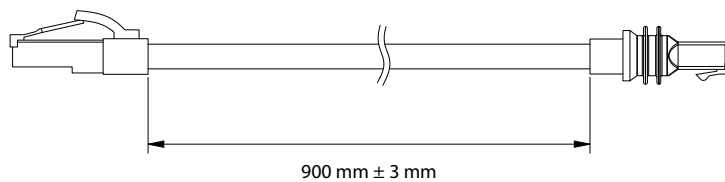
Cables



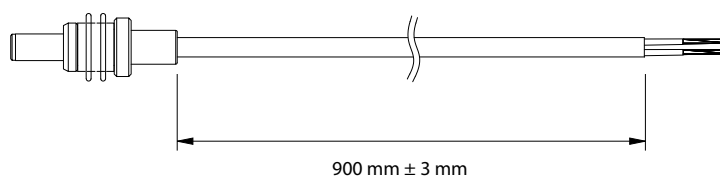
DC Cable



Ethernet Cable



Starlink Ethernet Cable

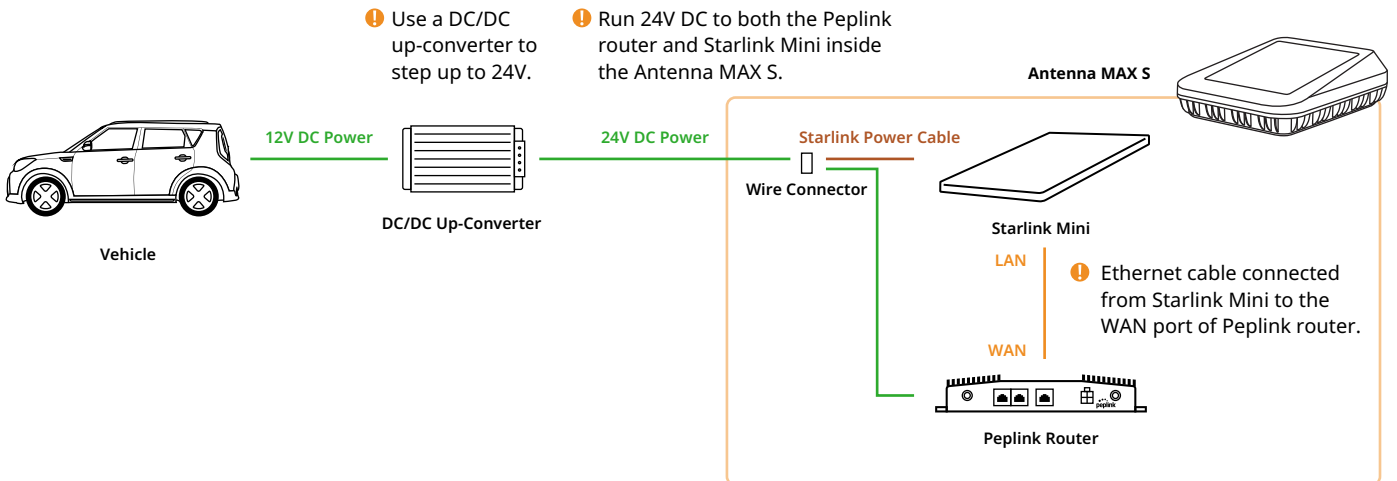


Starlink Power Cable

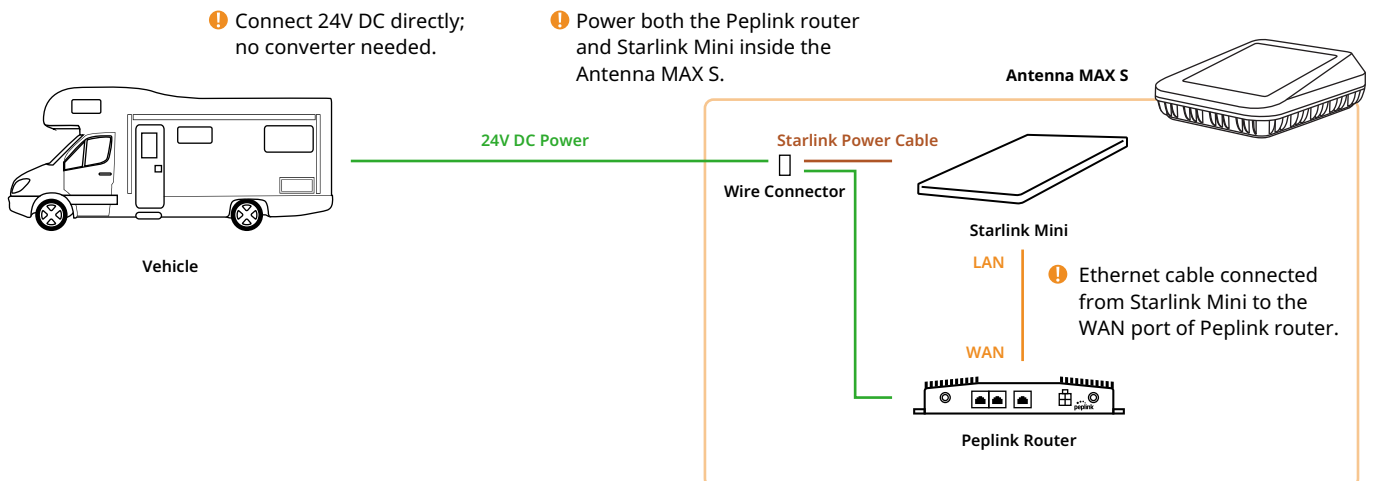
FAQ

Q. What are the recommended vehicle power setups for the Antenna MAX S with a 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

