

PEPWAVE



peplink x STARLINK

# Antenna MAX S

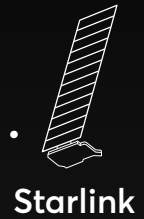
Maximum Synergy

Integrated Antenna Enclosure for Peplink and Starlink

**TAA**   
COMPLIANT

## Integration to the MAX

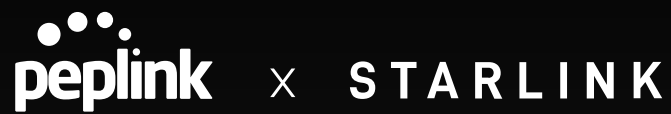
One enclosure. One install. All performance.



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**, **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

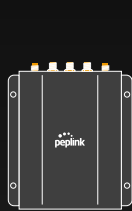
The Antenna MAX S is engineered for outdoor longevity, built with UV- and salt-resistant plastics, fitted with a metal base for heat dissipation, designed to withstand high wind loads for fixed or mobile applications.



## 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.

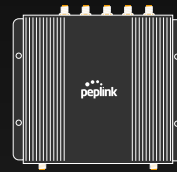
Use the top cover's watertight clasp system to conveniently secure the Peplink router of your choice:



BR1 Mini Series <sup>1</sup>



Transit Duo Pro

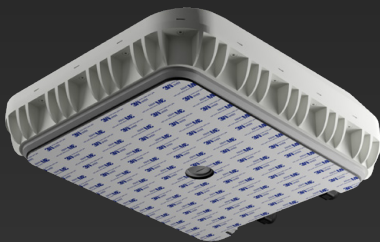


BR1 Pro Series <sup>2</sup>

<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

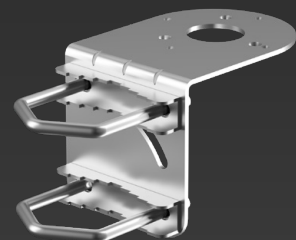
Mount it your way with a variety of installation options ideal for vehicles, rooftops, poles, or even custom rack systems.



Surface Mount



Deck Mount



Pole Mount



Magnetic Mount

Note: The deck and magnetic mount kits 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                |                                                                                            | Wi-Fi                   |                                              |
|-------------------------|--------------------------------------------------------------------------------------------|-------------------------|----------------------------------------------|
| Antenna Elements        | 4 elements                                                                                 | Antenna Elements        | 2 elements                                   |
| Peak Gain & Frequencies | 5.7dBi: 617-960MHz<br>6.8dBi: 1410-2700MHz<br>8.9dBi: 3300-4400MHz<br>7.3dBi: 5000-6000MHz | Peak Gain & Frequencies | 6.3dBi: 2400-2500MHz<br>7.4dBi: 5000-6000MHz |
| VSWR                    | < 2.5 over 95% of the band                                                                 | VSWR                    | < 3.0                                        |
| Feed Power Handling     | 10W                                                                                        | Feed Power Handling     | 10W                                          |
| Input Impedance         | 50 Ω                                                                                       | Input Impedance         | 50 Ω                                         |
| Polarisation            | Linear                                                                                     | Polarisation            | Linear                                       |
| Connectors              | Right angle SMA male                                                                       | Connectors              | Right angle RP-SMA male                      |

| GPS               |                                  |
|-------------------|----------------------------------|
| Frequency Range   | 1575-1602 MHz                    |
| Peak Gain         | 0.9dBi@1575MHz<br>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.

Specifications

| Mounting                  |                                                                                                                                                                                                                                                                                                                                                                                                                                              | Mechanical             |                                                                             |
|---------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------|-----------------------------------------------------------------------------|
| Supported Types           | Surface, Pole, Magnet, Vechicle roof racks or Custom mounts                                                                                                                                                                                                                                                                                                                                                                                  | Product Dimensions     | 17.6" / 448 mm - Length<br>14.5" / 368 mm - Width<br>5.3" / 135 mm - Height |
| Package Contents          |                                                                                                                                                                                                                                                                                                                                                                                                                                              | Packaged Dimensions    | 585 x 456 x 185 mm / 23.03" x 17.95" x 7.28"                                |
| Package Contents          | Antenna MAX S<br>L-Mount Set<br>Power supply/splitter mounting set<br>Router fixation screws<br>3pcs M25 cable glands<br>1pcs M25 hole plug<br>2pcs RJ45 glands<br>2pcs RJ45 caps<br>2pcs Hole plug<br>1pcs DC Cable Connector<br>1pcs Starlink power cable (35.4" / 900 mm)<br>1pcs Starlink Ethernet cable (35.4" / 900 mm)<br>1pcs Double sided 3M adhesive pad<br>1pcs Ethernet cable (7.87" / 200 mm)<br>1pcs DC cable (3.93" / 100 mm) | Enclosure Material     | Bottom plate - Aluminium<br>Other parts - UV stable PC                      |
| Environmental, Compliance |                                                                                                                                                                                                                                                                                                                                                                                                                                              |                        |                                                                             |
| IP Rating                 | IP67                                                                                                                                                                                                                                                                                                                                                                                                                                         | Compliance             | ROHS, REACH, WEEE                                                           |
| Operating Temperature     | -40° - 176°F /<br>-40° - 80°C                                                                                                                                                                                                                                                                                                                                                                                                                | Enclosure Flammability | UL 94 V-0 (1.47 mm)                                                         |
| Storage Temperature       | -40° - 176°F /<br>-40° - 80°C                                                                                                                                                                                                                                                                                                                                                                                                                | UV resistance          | UL 746C (F1 long-term UV exposure)                                          |
|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                              | Salt Spray             | ASTM B117 not ASTM8117                                                      |

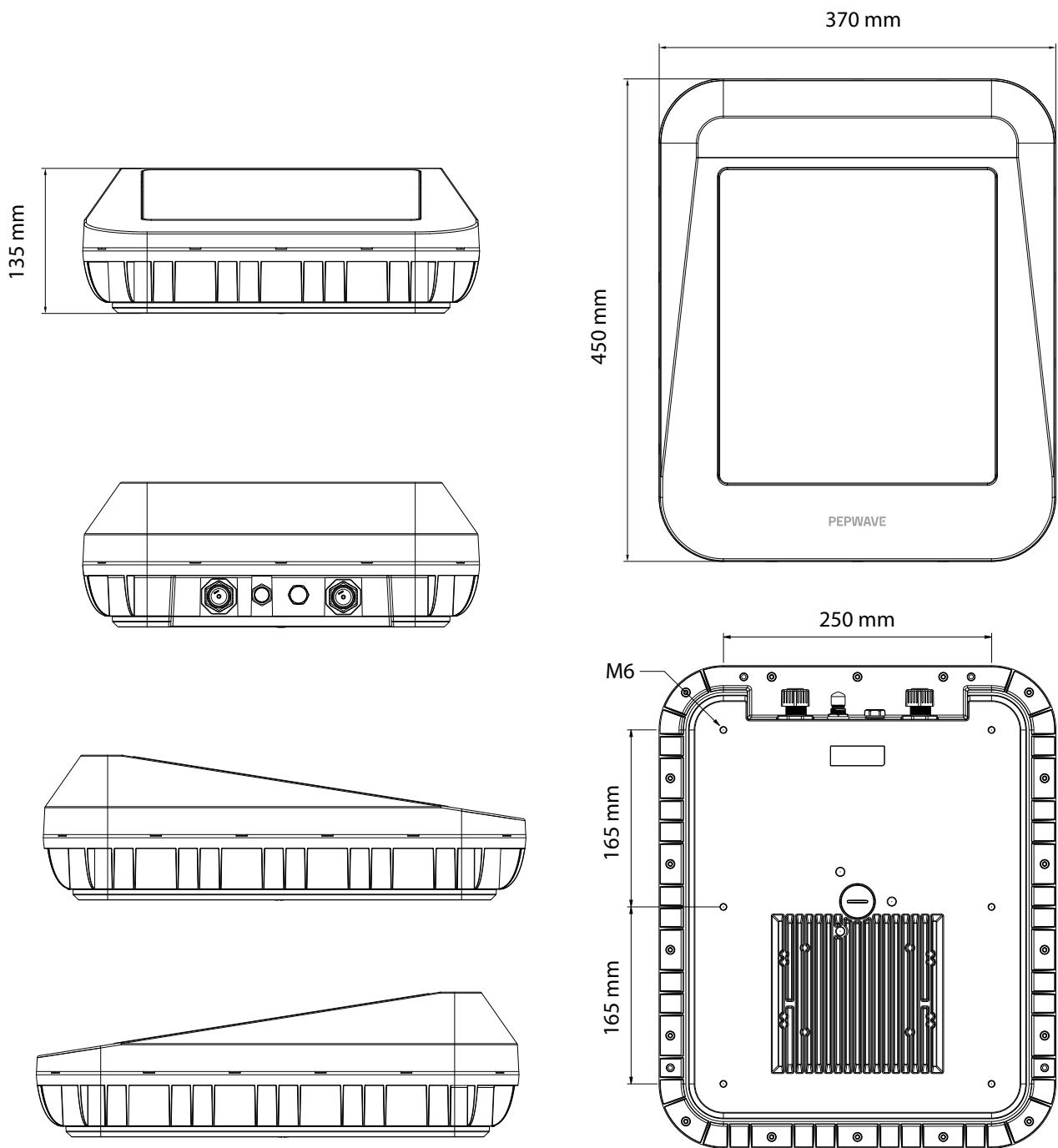
Ordering Information

| 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          |

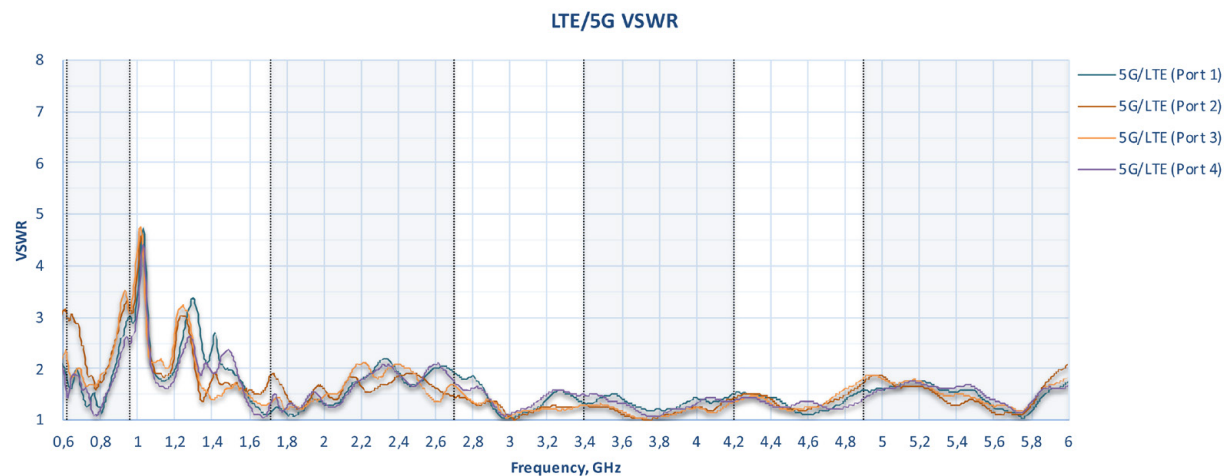
## Technical Drawing



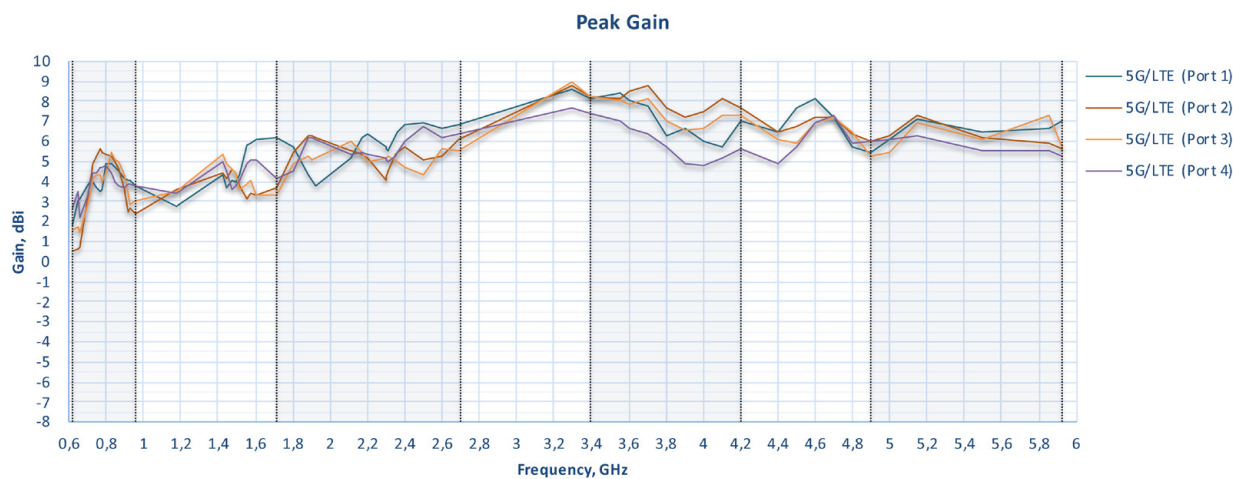


## Cellular Antenna Performance

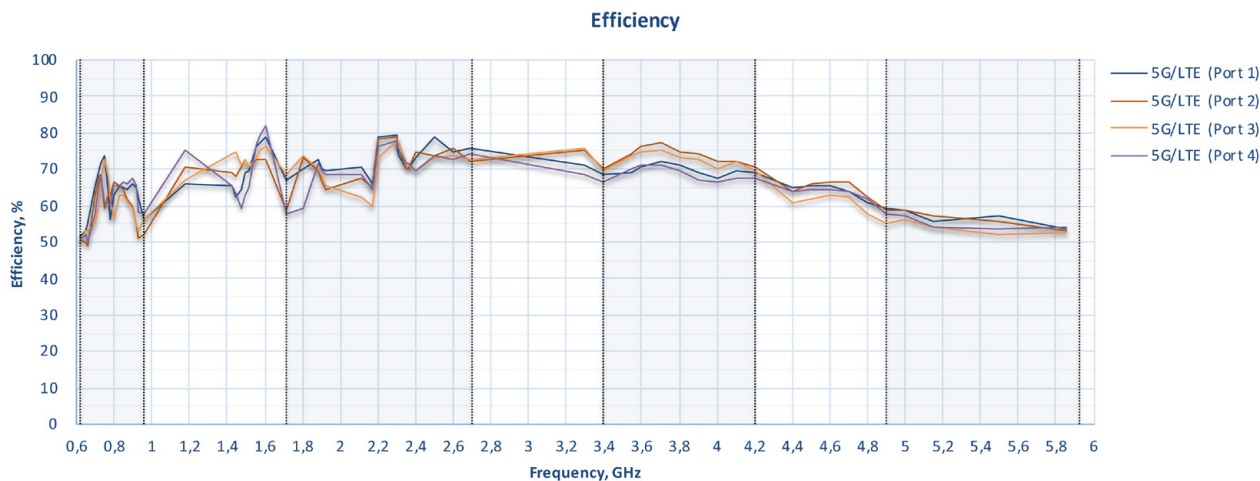
Cellular Antenna VSWR



Cellular Antenna Gain



Cellular Antenna Efficiency

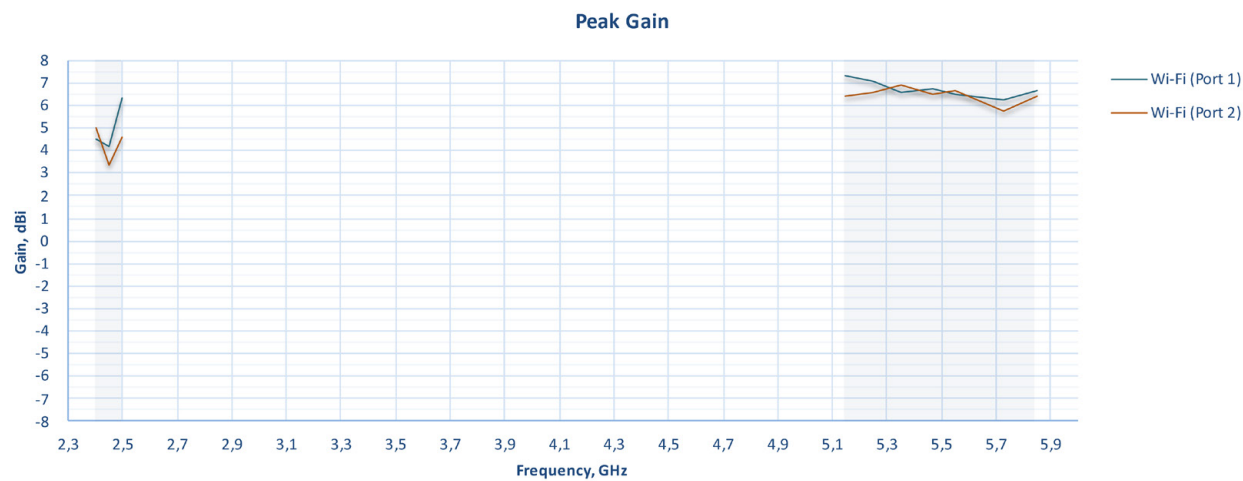


Wi-Fi Antenna Performance

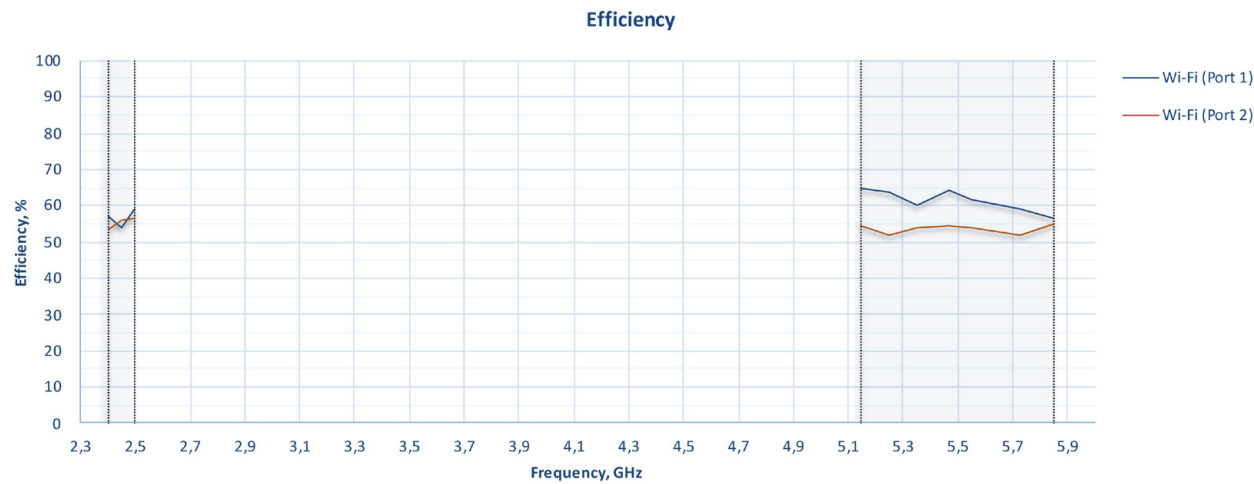
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain

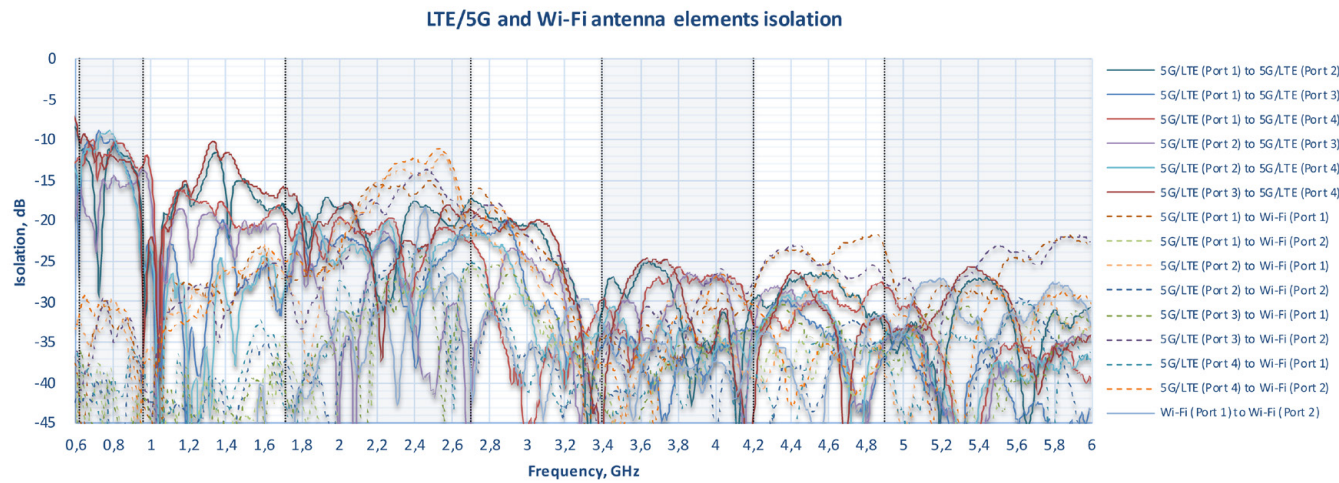


Wi-Fi Antenna Efficiency



## Cellular & Wi-Fi Antenna Performance

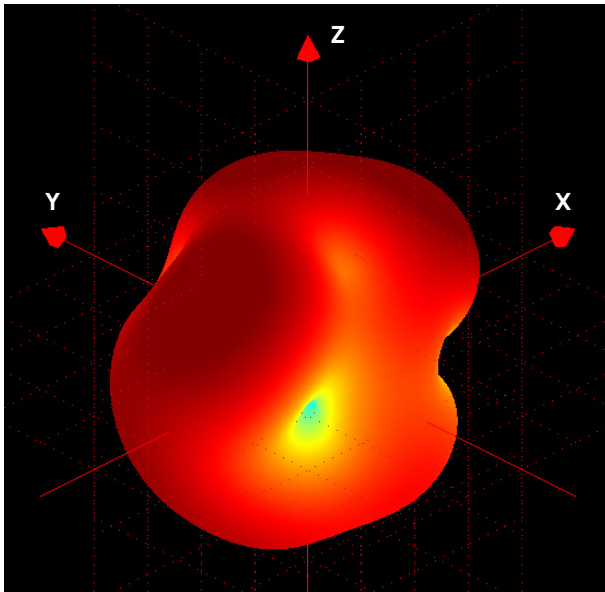
Cellular & Wi-Fi Antenna Isolation



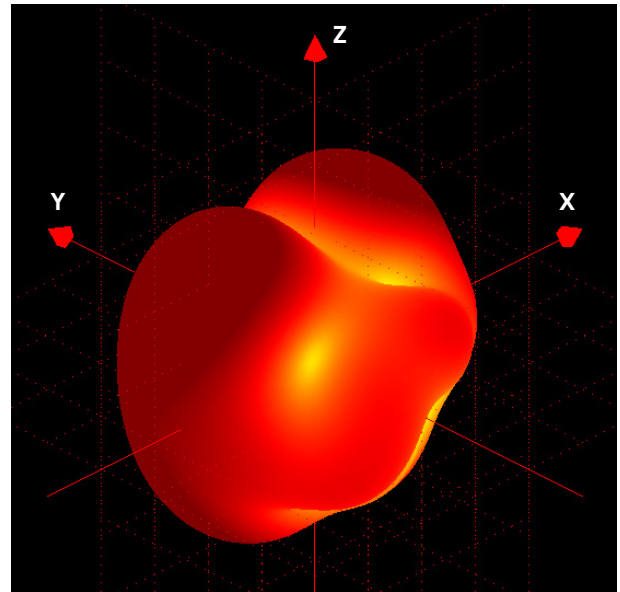
## Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

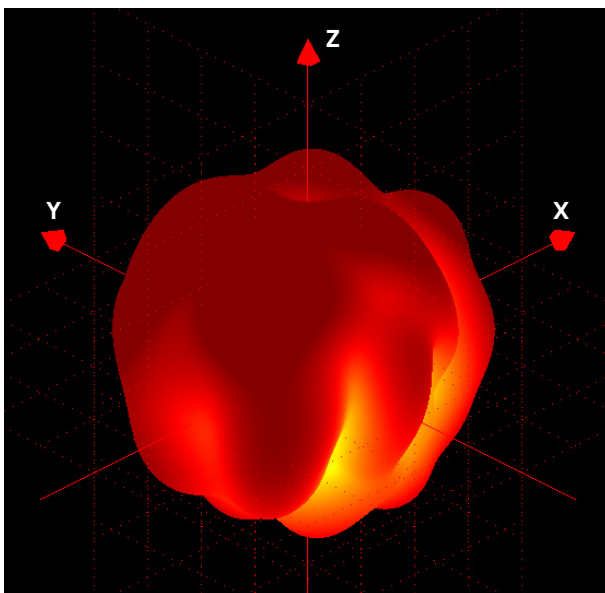
617 MHz



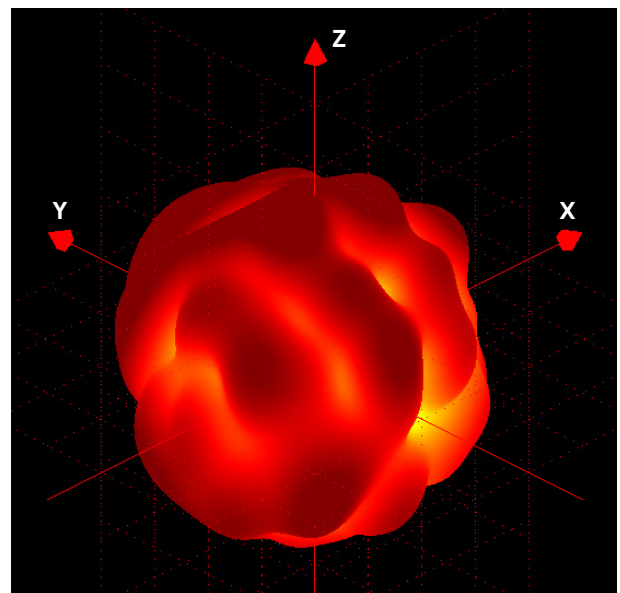
798 MHz



1496 MHz



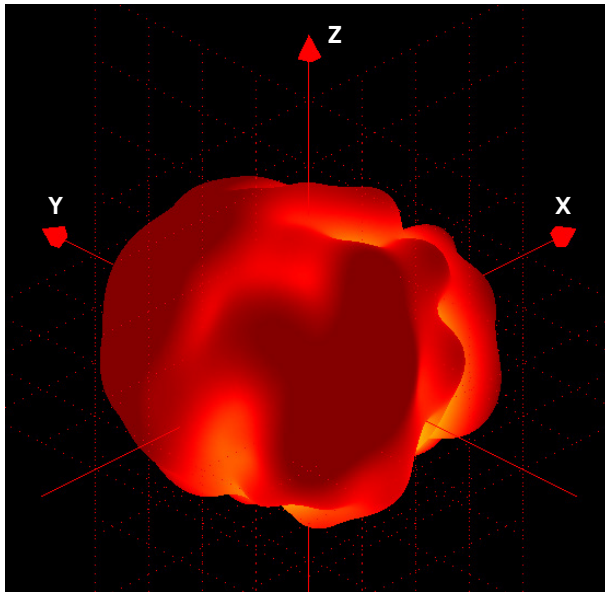
1805 MHz



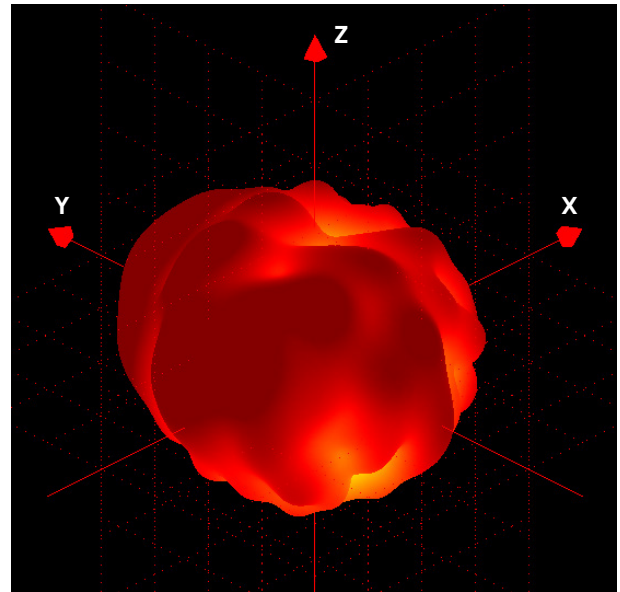
## Cellular & Wi-Fi Antenna Performance

### Typical Radiation Pattern

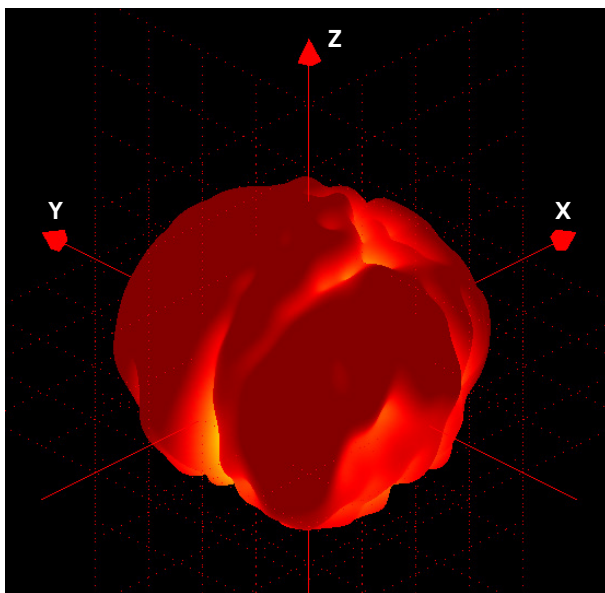
2110 MHz



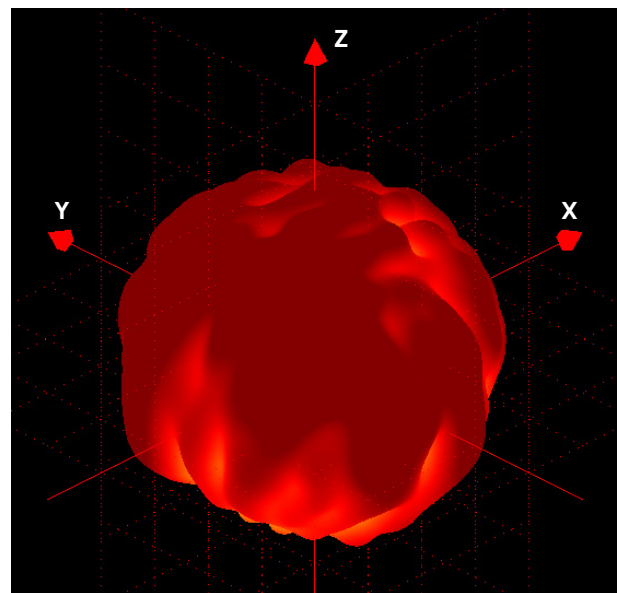
2400 MHz



3550 MHz



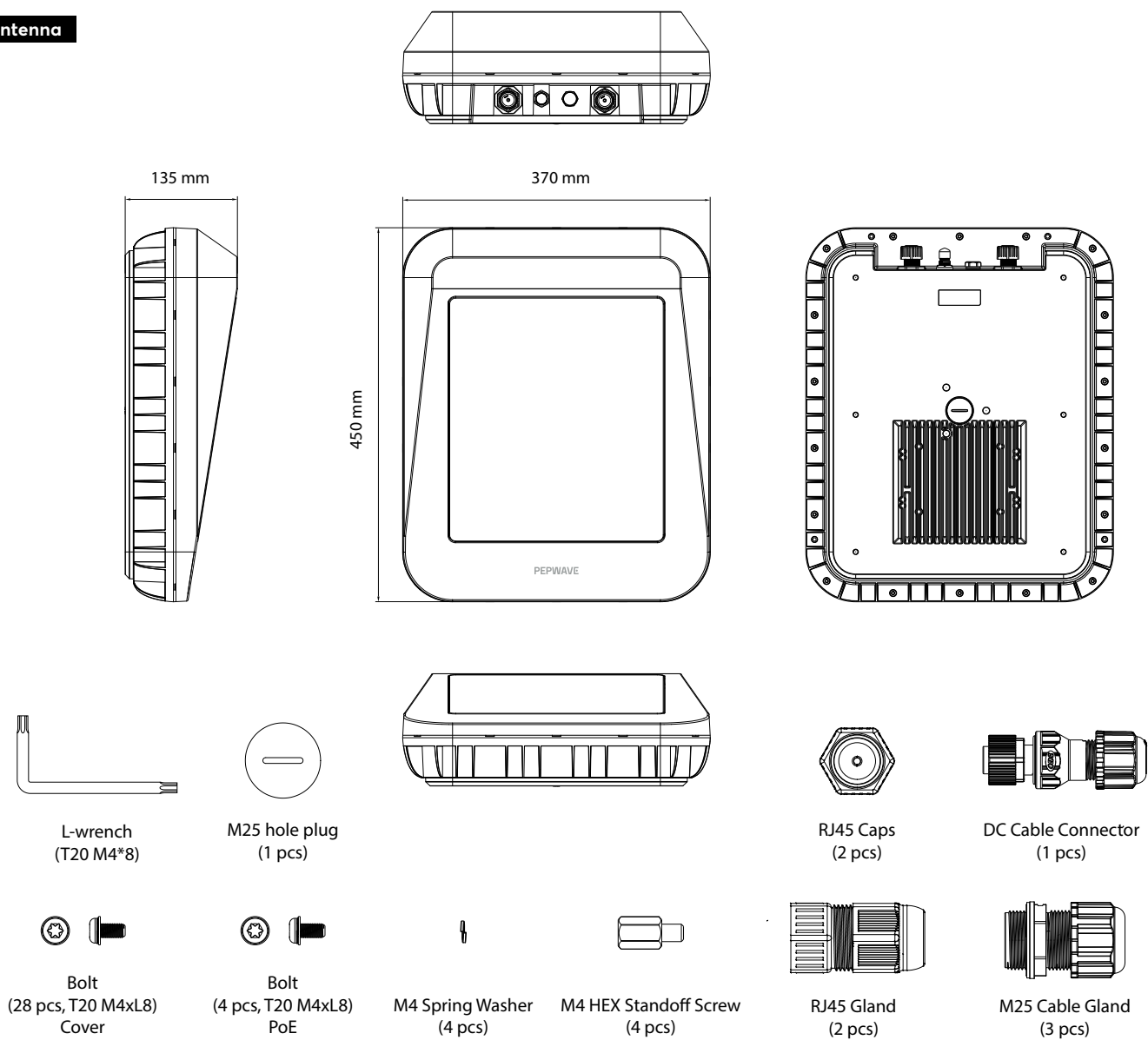
3800 MHz



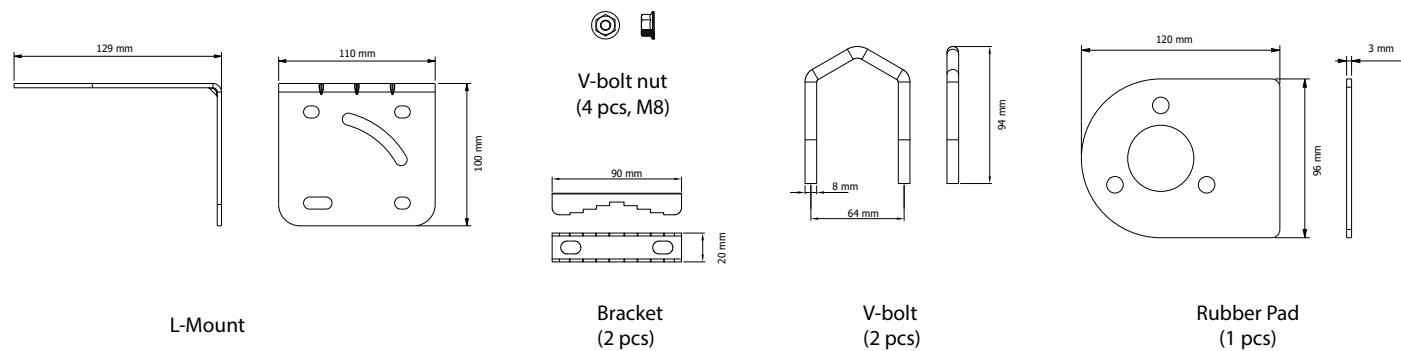


## Packing List Information

### Antenna

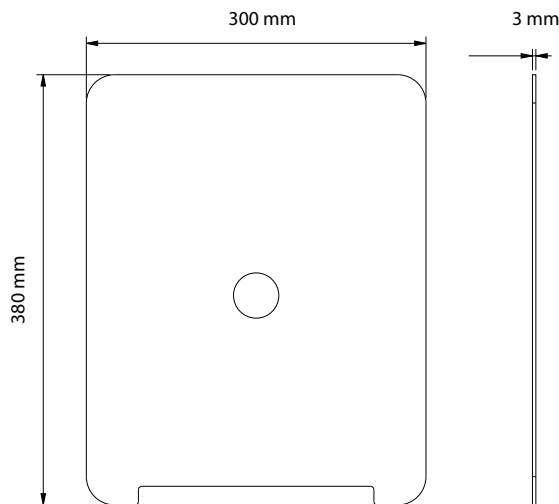


### L-Mount Mount Set

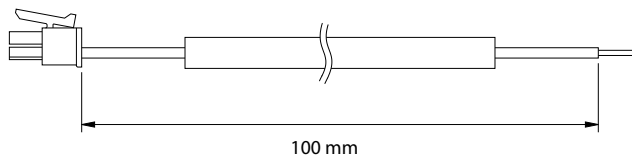


## Packing List Information

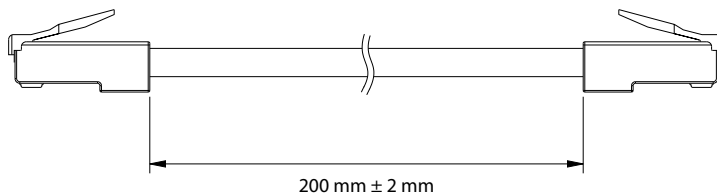
Adhesive Pad



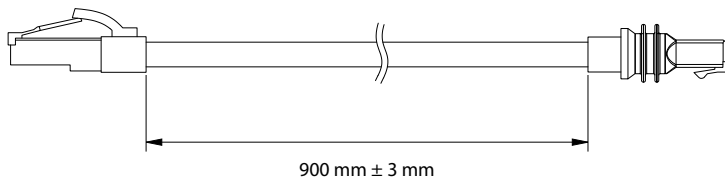
Cables



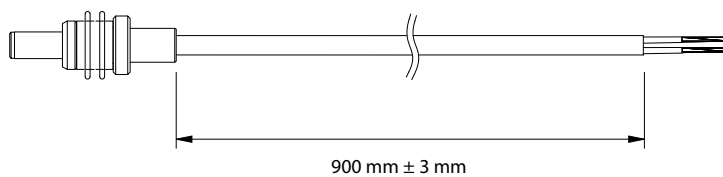
DC Cable



Ethernet Cable



Starlink Ethernet cable

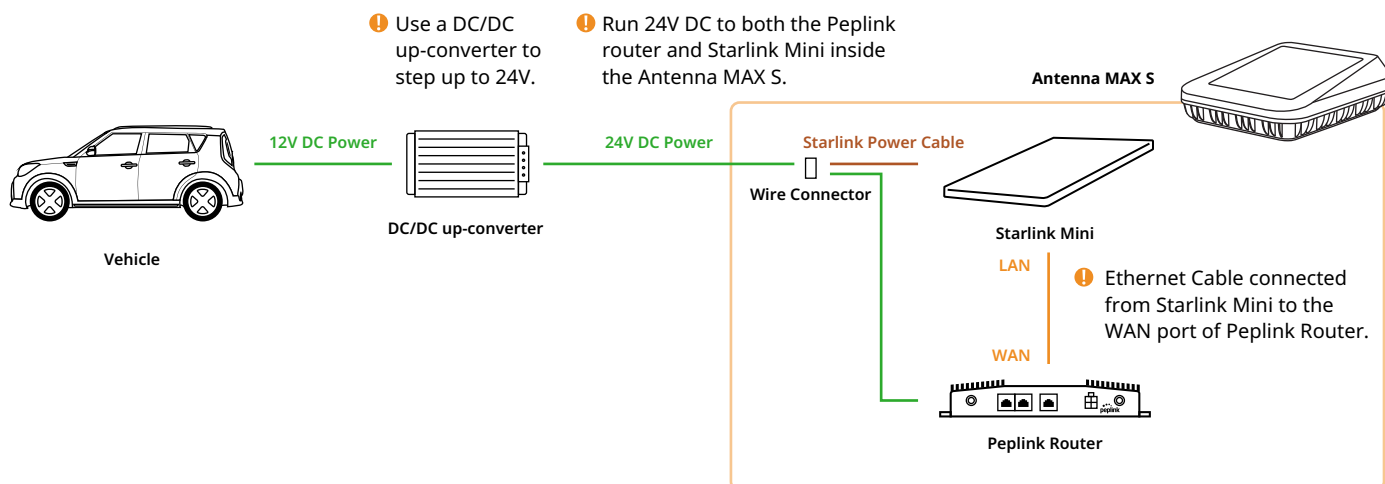


Starlink power cable

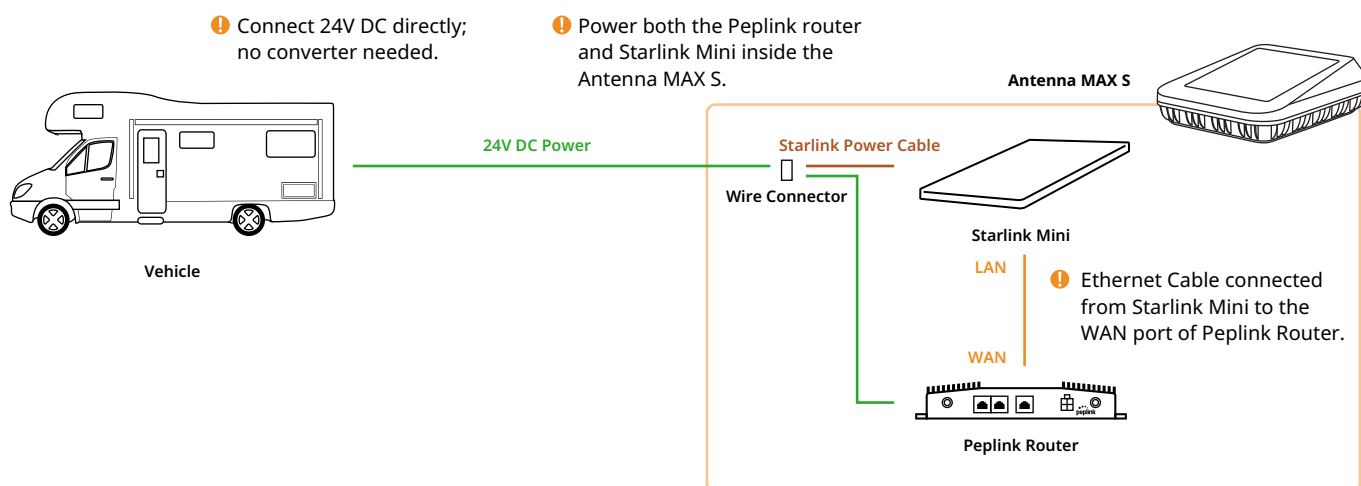
## FAQ

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

