



PRODUCT DATASHEET
Antenna MAX S



peplink × 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.

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

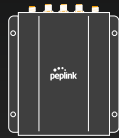
The Antenna MAX S is engineered for outdoor longevity, built with UV- and salt-resistant plastics, fitted with a metal base for heat dissipation, designed to withstand high wind loads for fixed or mobile applications.



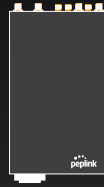
Convenience to the MAX

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

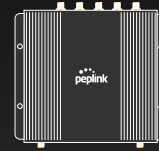
Use the top cover's watertight clasp system to conveniently secure the Peplink router of your choice:



BR1 Mini Series ¹



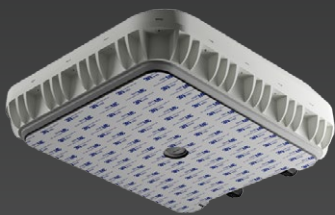
Transit Duo Pro



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

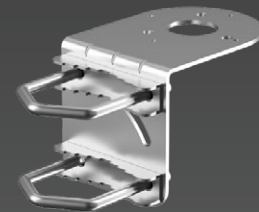
Mount it your way with a variety of installation options ideal for vehicles, rooftops, poles, or even custom rack systems.



Surface Mount



Deck Mount



Pole Mount



Magnetic Mount

Note: The deck and magnetic mount kits 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

- **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

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

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

Mounting

- **Supported Types:**
Surface, Pole, Magnet,
Vehicle roof racks or
Custom mounts

Mechanical

- **Product Dimensions:**
17.6" / 448 mm - Length
14.5" / 368 mm - Width
5.3" / 135 mm - Height
- **Packaged Dimensions:**
585 x 456 x 185 mm /
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
- **Wind Survivability:**
TBD
- **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

Package Contents

- **Package Contents:**
Antenna MAX S
L-Mount Set
Power supply/splitter mounting
set
Router fixation screws
3pcs 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)



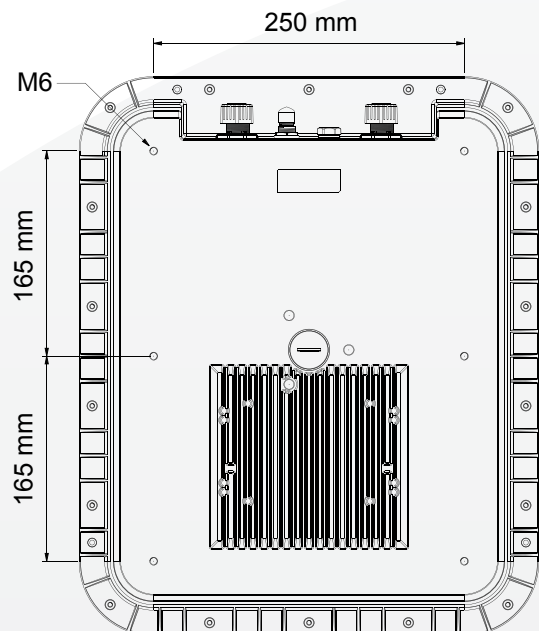
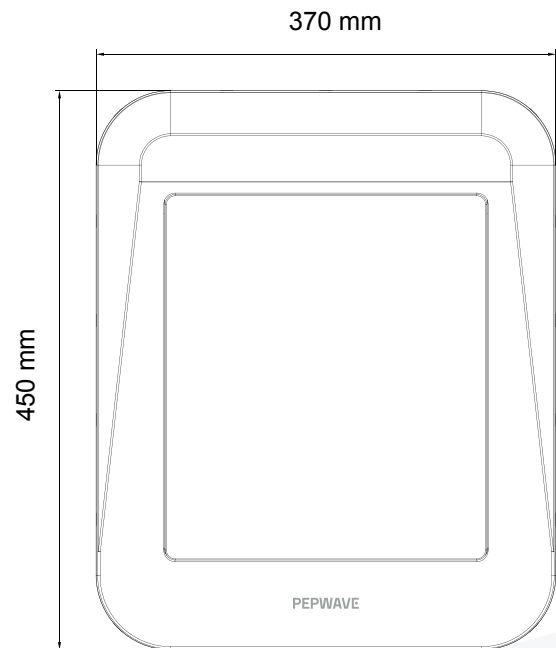
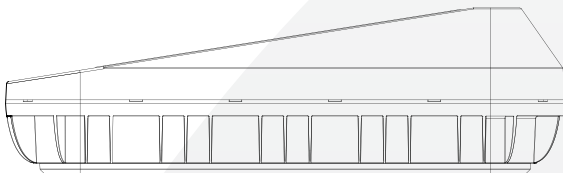
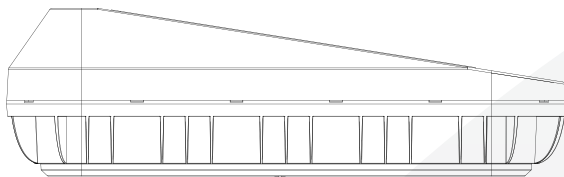
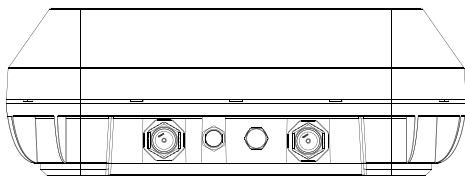
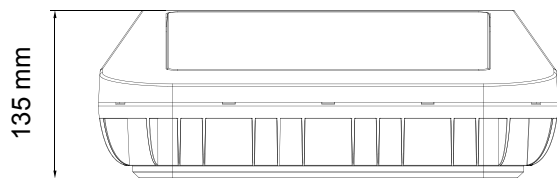
Ordering Information

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

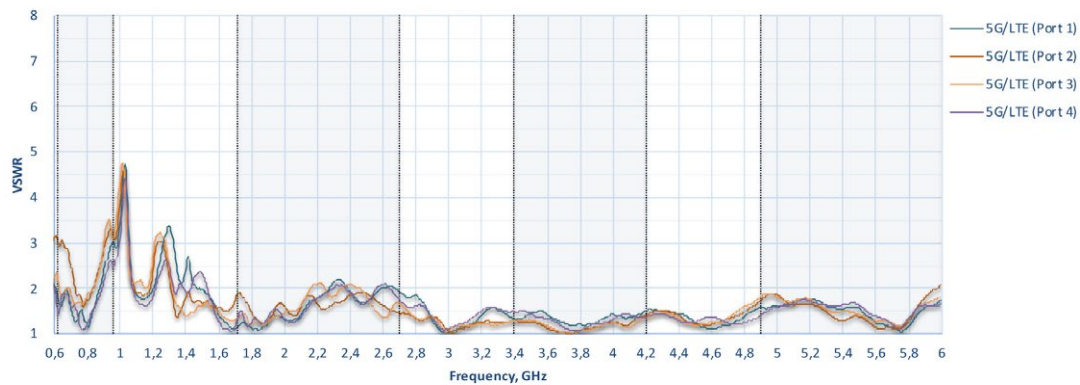
Product Code	Description
ACW-651	1" 14 TPI female to Mobility thread for deck mount
ACW-653A	1 1/4" 11 TPI male adapter for deck mount

Technical Drawing

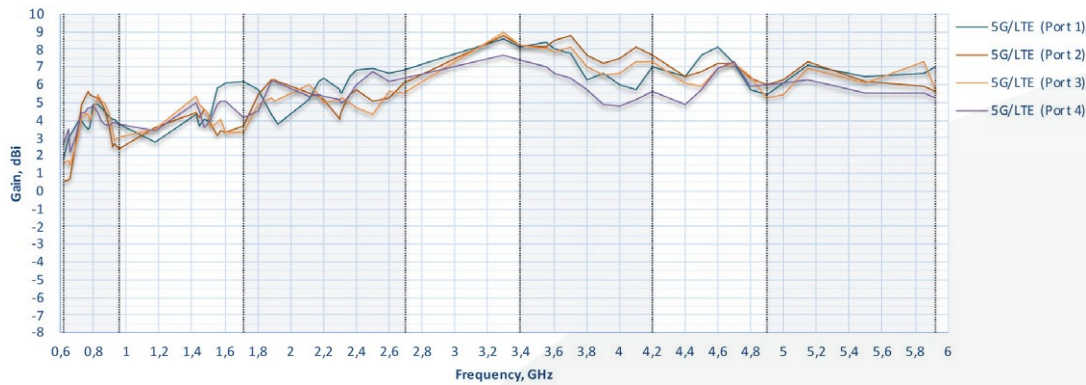


Cellular Antenna Performance

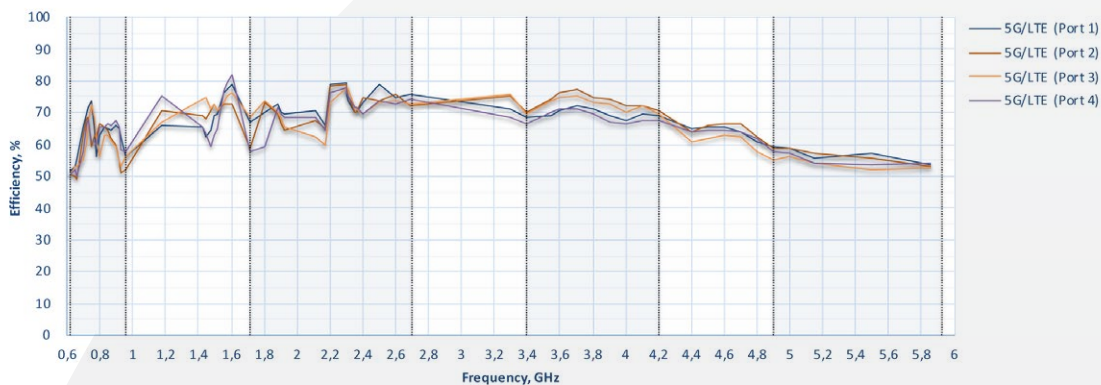
Cellular Antenna VSWR



Cellular Antenna Gain

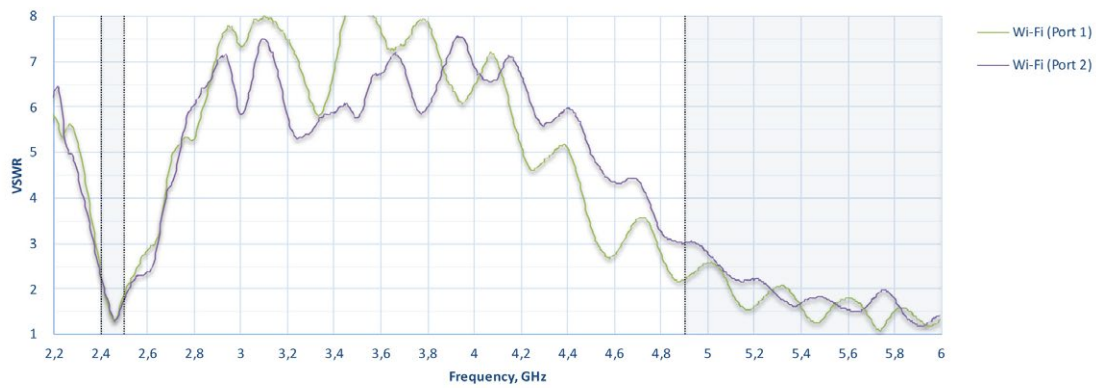


Cellular Antenna Efficiency

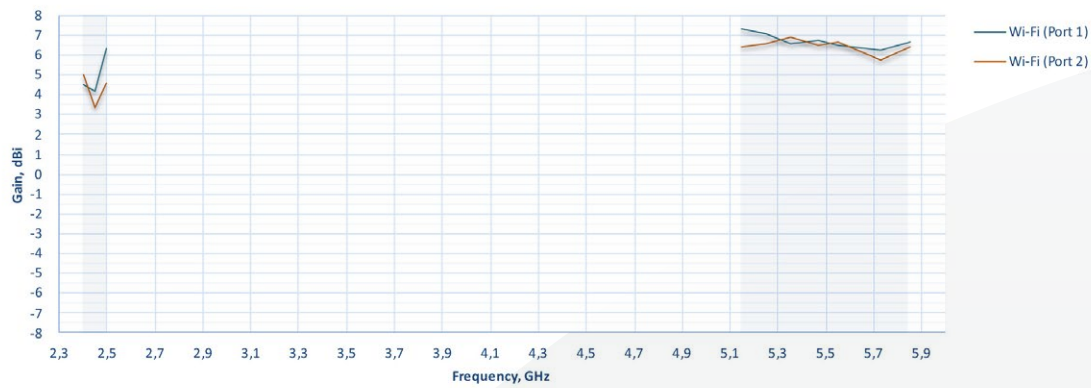


Wi-Fi Antenna Performance

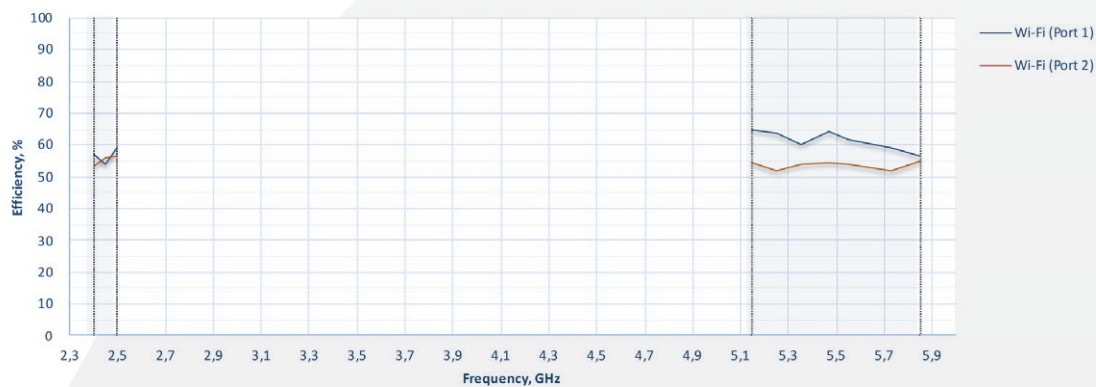
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain

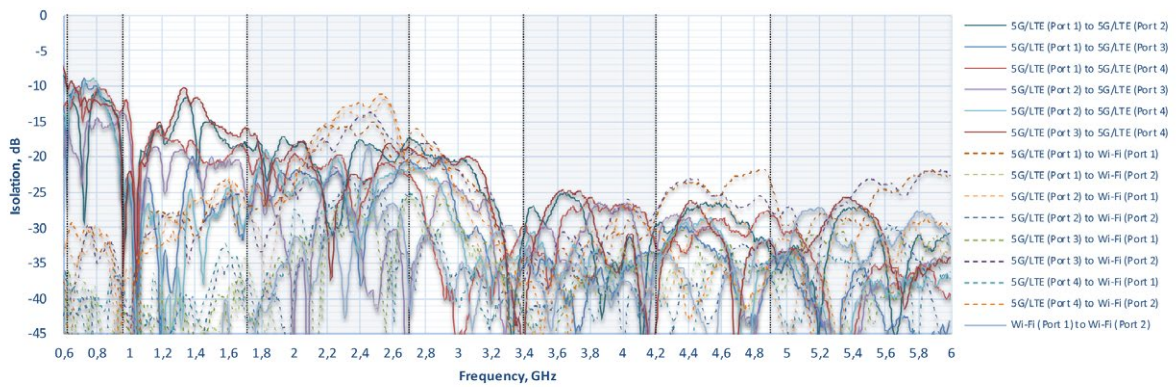


Wi-Fi Antenna Efficiency



Cellular & Wi-Fi Antenna Performance

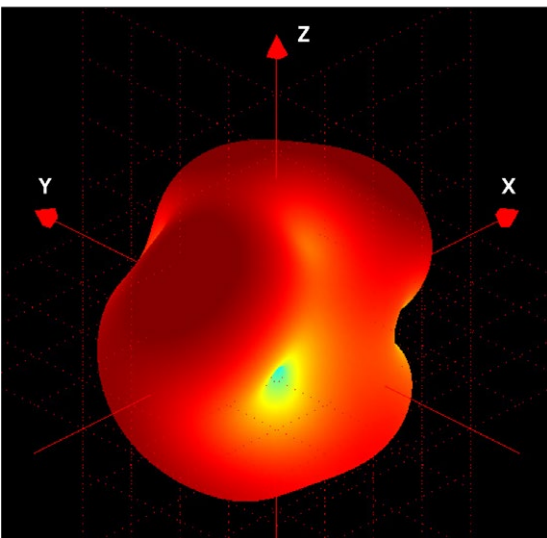
Cellular & Wi-Fi Antenna Isolation



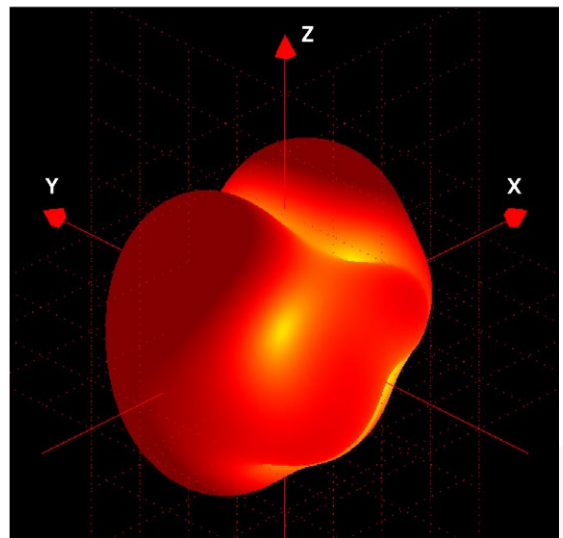
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

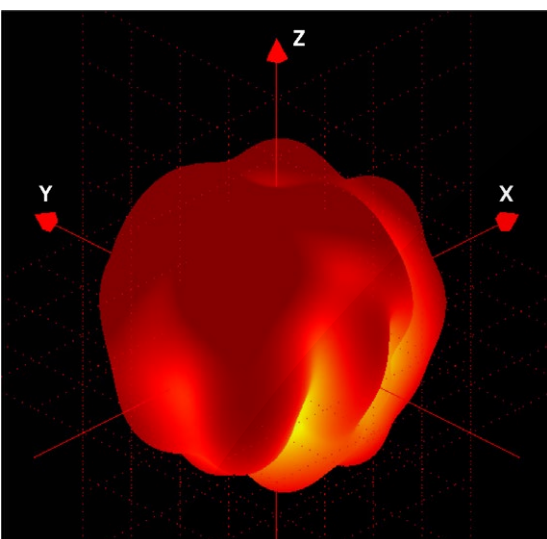
617 MHz



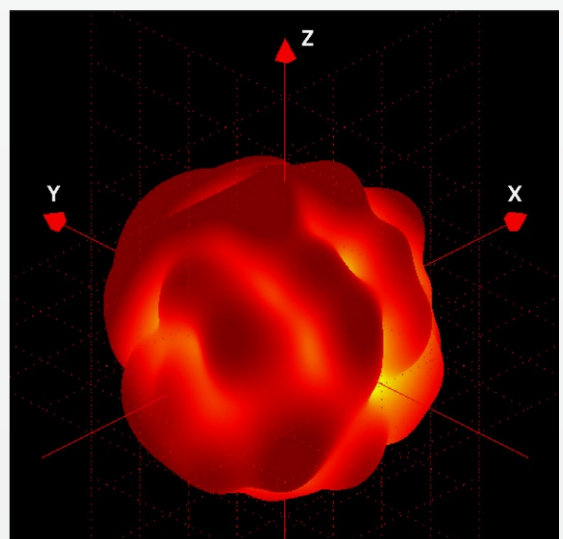
798 MHz



1496 MHz



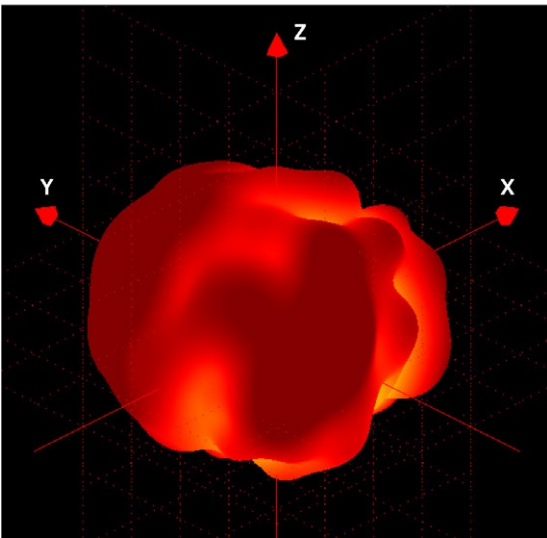
1805 MHz



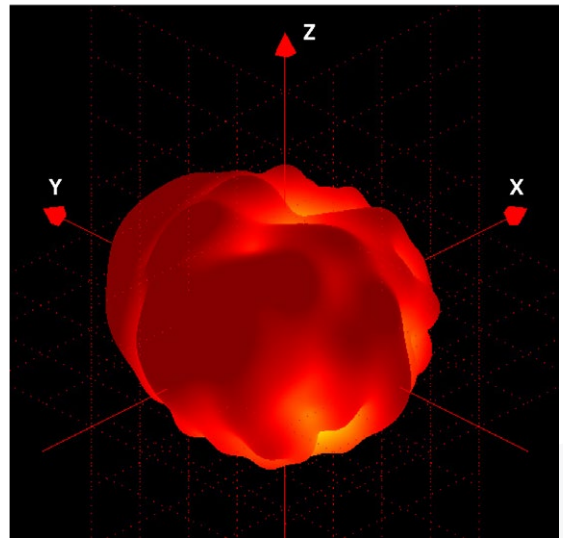
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

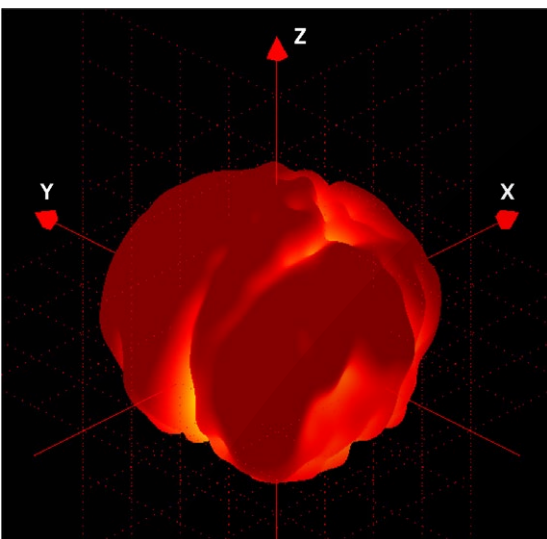
2110 MHz



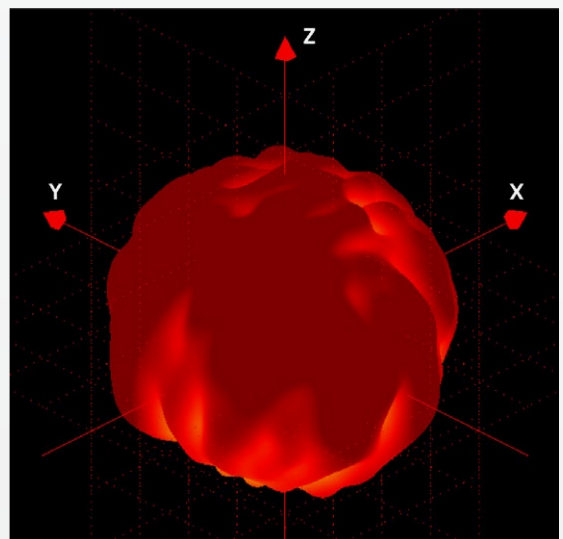
2400 MHz



3550 MHz



3800 MHz



Installation Recommendation

Wall Mount



Pole Mount



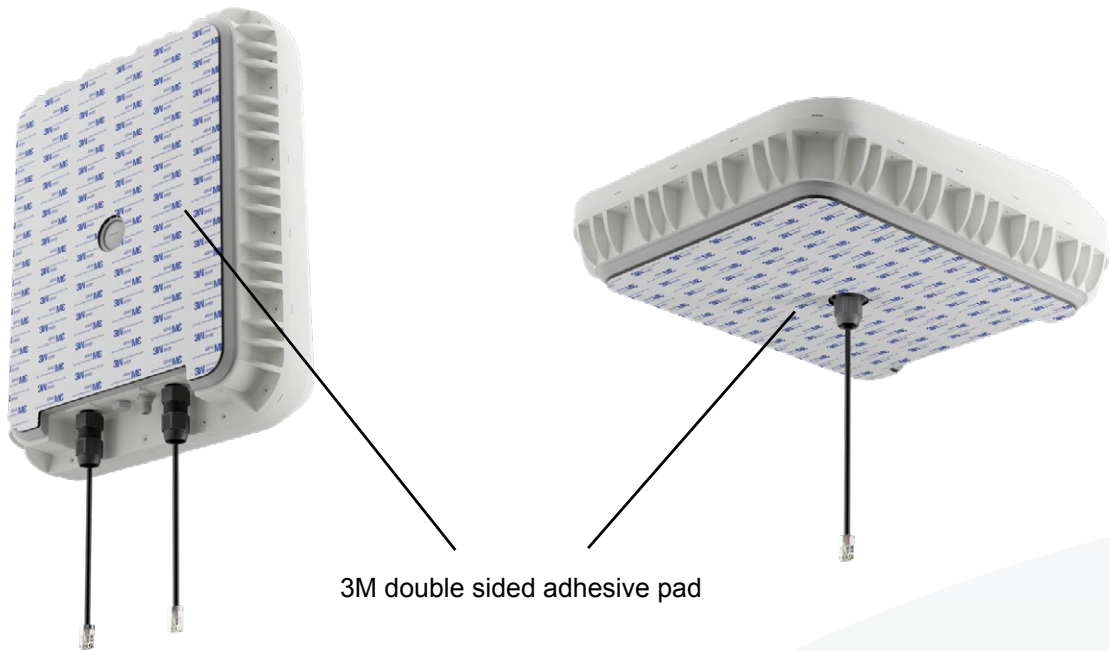
Horizontal Pole



Vertical Pole

Installation Recommendation

Surface Mount



Magnetic Mount



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

Installation Recommendation

Deck Mount



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

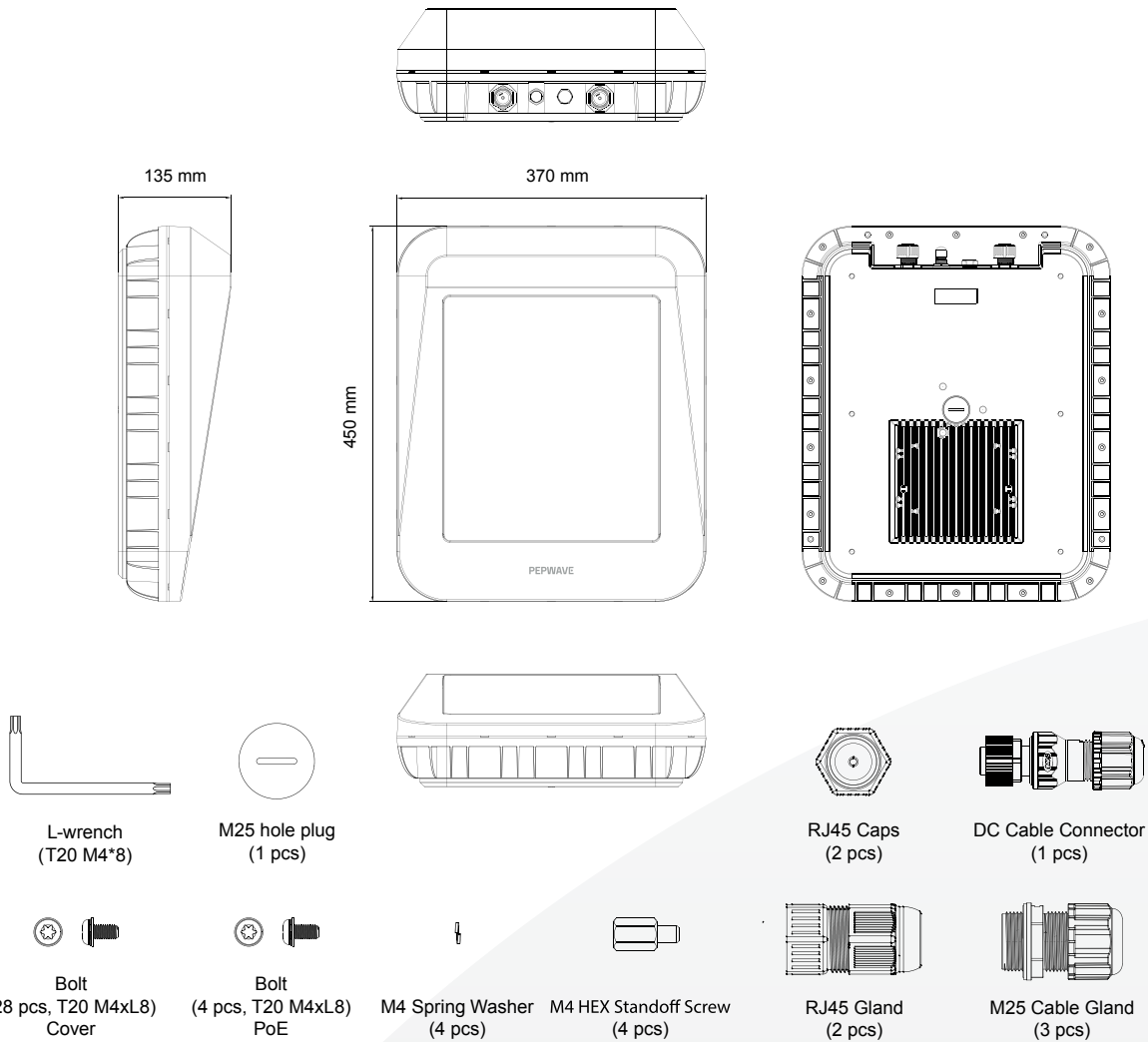
Fasten the Antenna MAX S by using M6 screws

The holes labeled in orange are suitable for assembling components that use M6 screws. They can also be utilised to secure the Antenna MAX S to vehicle roof racks or custom mounts.

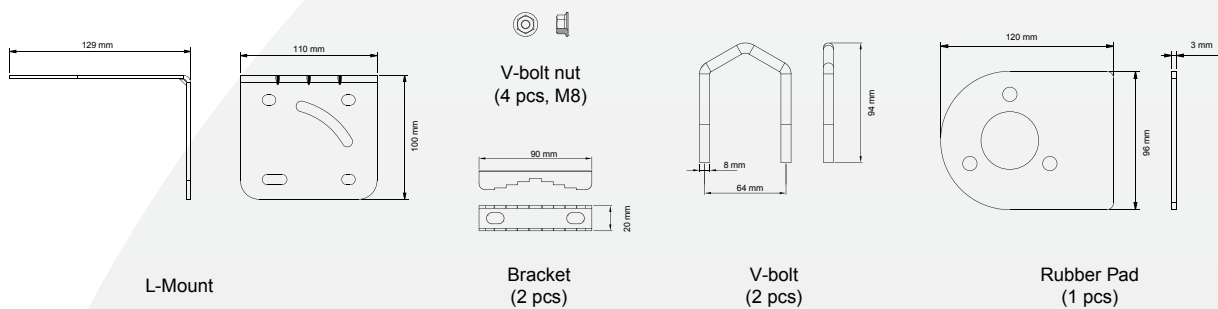


Packing List Information

Antenna

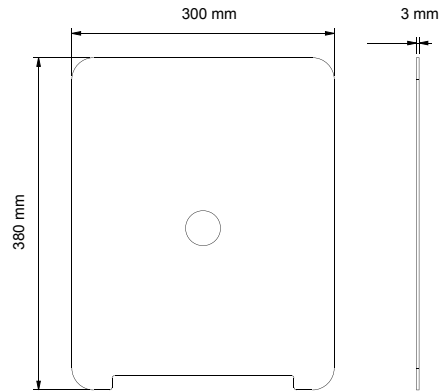


L-Mount Mount Set

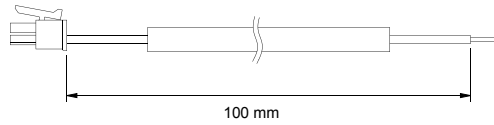


Packing List Information

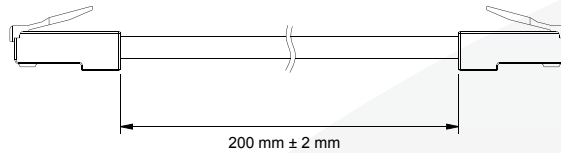
Adhesive Pad



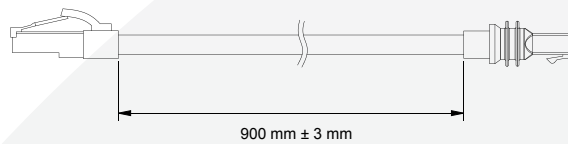
Cables



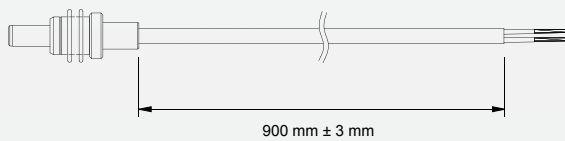
DC Cable



Ethernet Cable



Starlink Ethernet cable

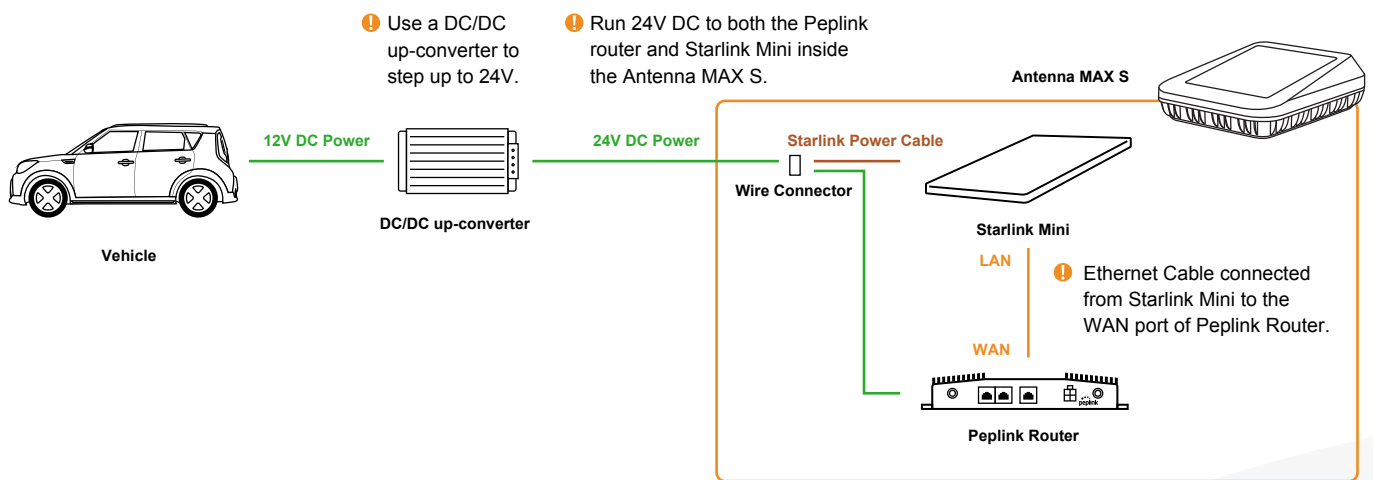


Starlink power cable

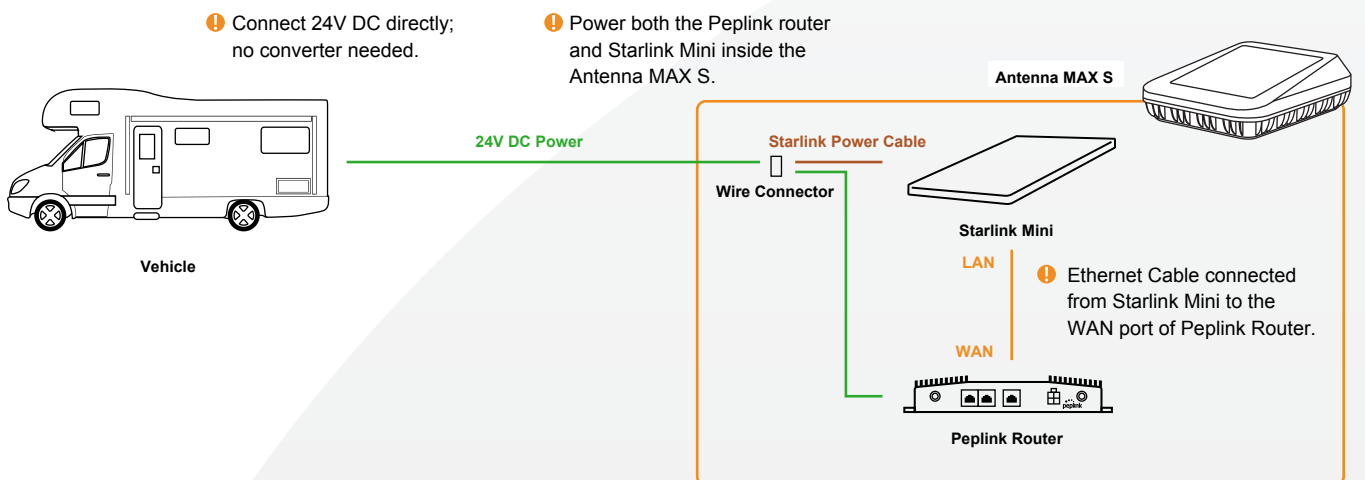
FAQ

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

⚠ **PoE Switch or PoE injector** is required to supply PoE Output.



PoE++ Output

⚠ Inside the Antenna MAX S, the **PoE splitter** separates power (DC) and data (Ethernet) for the Peplink router and only power (DC) for Starlink Mini.

