PEPWAVE

Antenna MAX S

Maximum Synergy

Integrated Antenna Enclosure for Peplink and Starlink

TAA COMPLIANT

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ref: 2508 - v1

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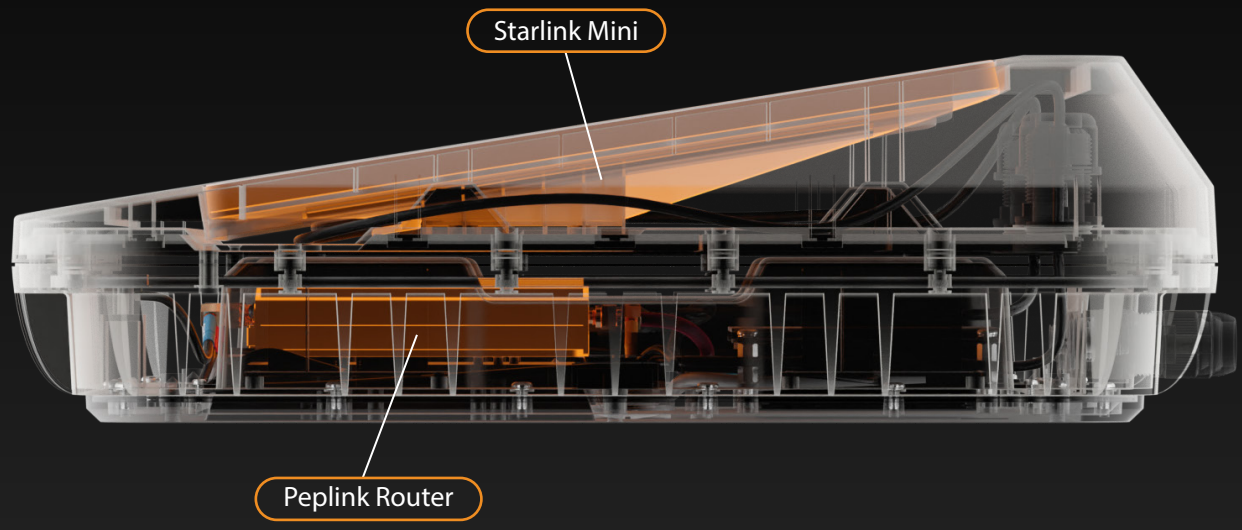
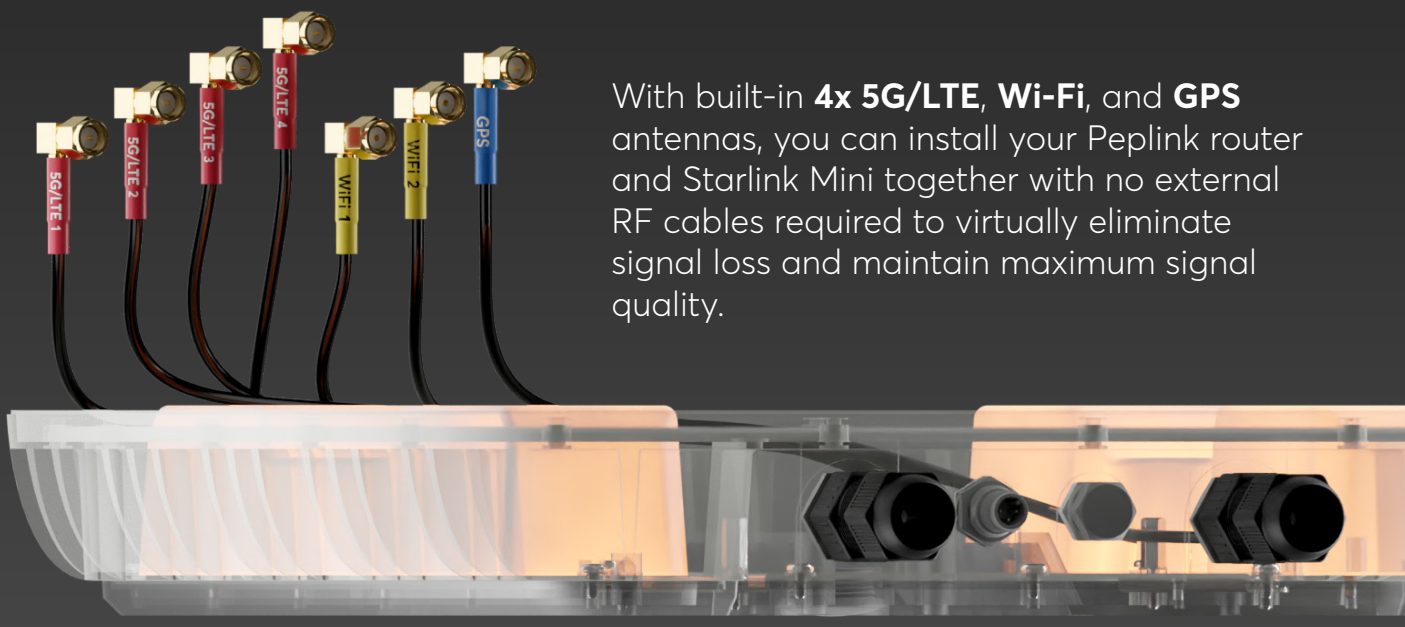
Integration to the MAX

One enclosure. One install. All performance.



The **Antenna MAX S** takes hybrid connectivity to the MAX by combining the power of satellite 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.

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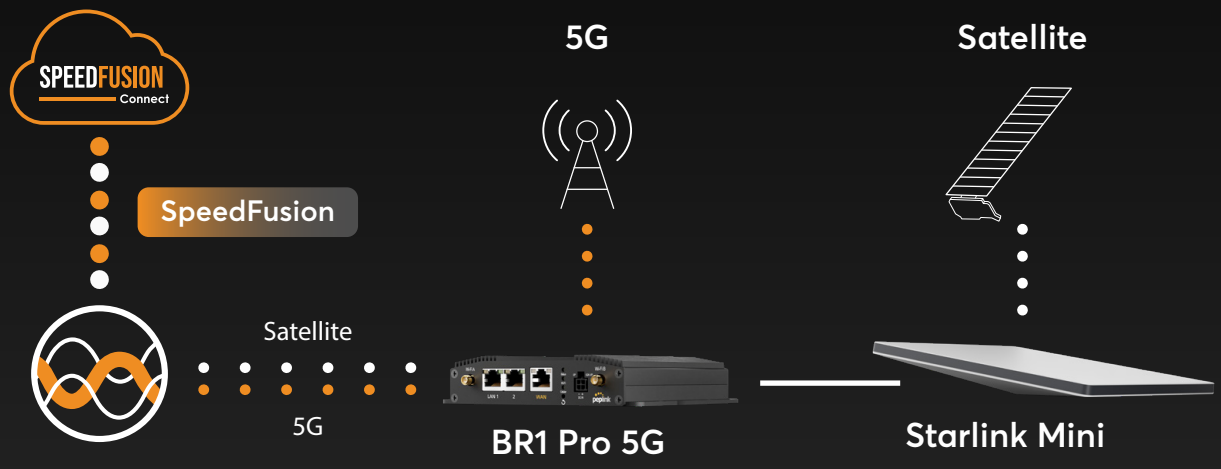
peplink x STARLINK

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 to withstand high wind loads for fixed or mobile applications.

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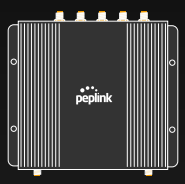
Convenience to the MAX

Supporting both Power over Ethernet (PoE) and DC input, the Antenna MAX S gives you flexibility in how you deploy.

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

BR1 Mini Series [1]

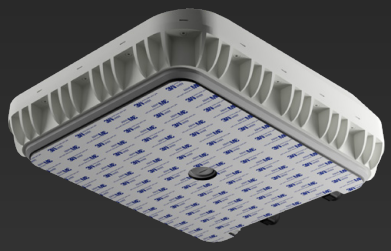
Transit Duo Pro



BR1 Pro 5G / CAT20

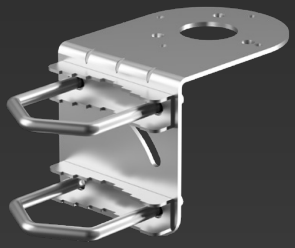
[1] BR1 Mini series: BR1 Mini, BR1 Mini Core, BR1 Mini 5G, BR1 Mini M2M.

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 magentic mount kits is **NOT included** in the package.

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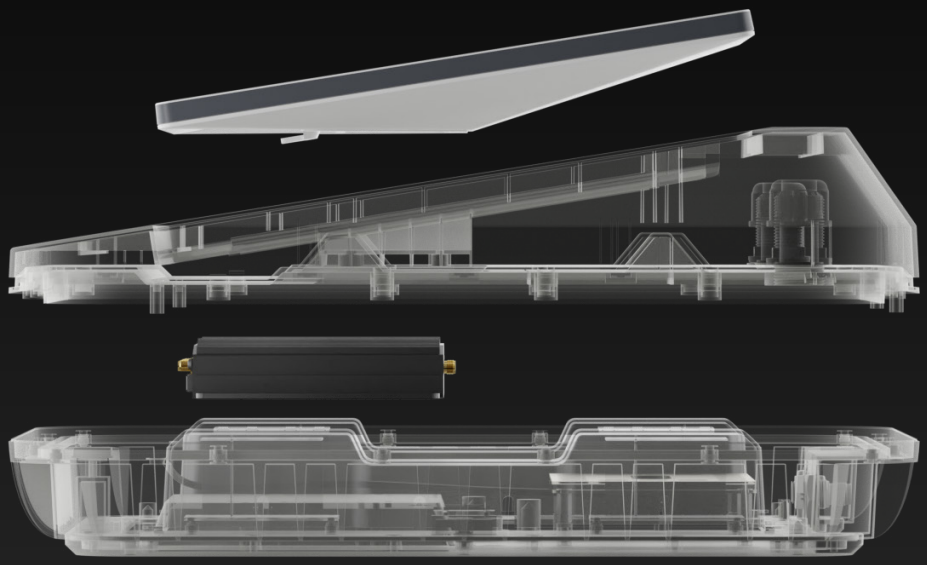
Value to the MAX

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.

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Specification

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 are subject to change without notice.

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Specification

Mounting

Supported Types	Surface, Pole, Magnet, Vechicle roof racks or Custom mounts

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)

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

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.

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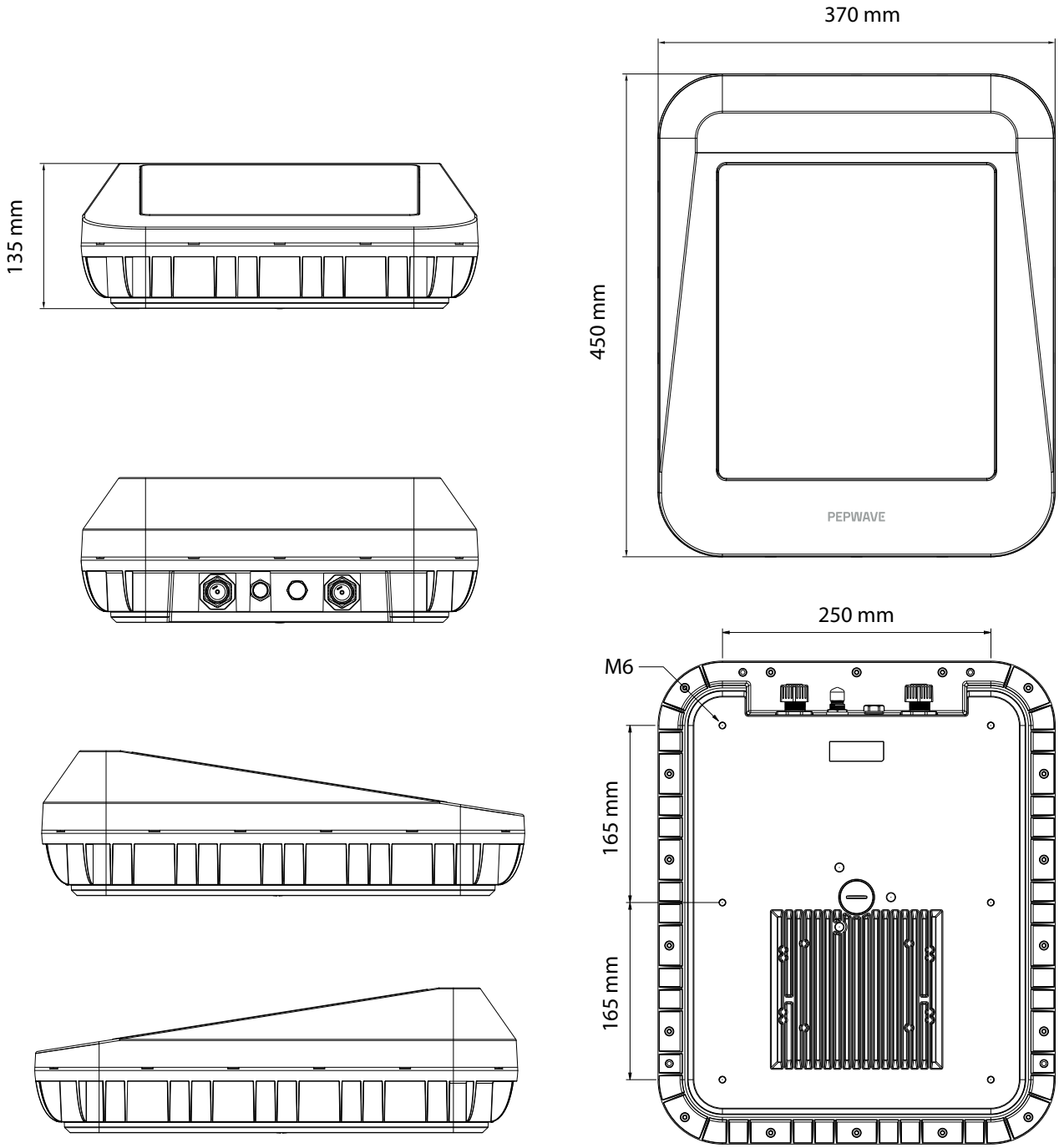
Technical Drawing



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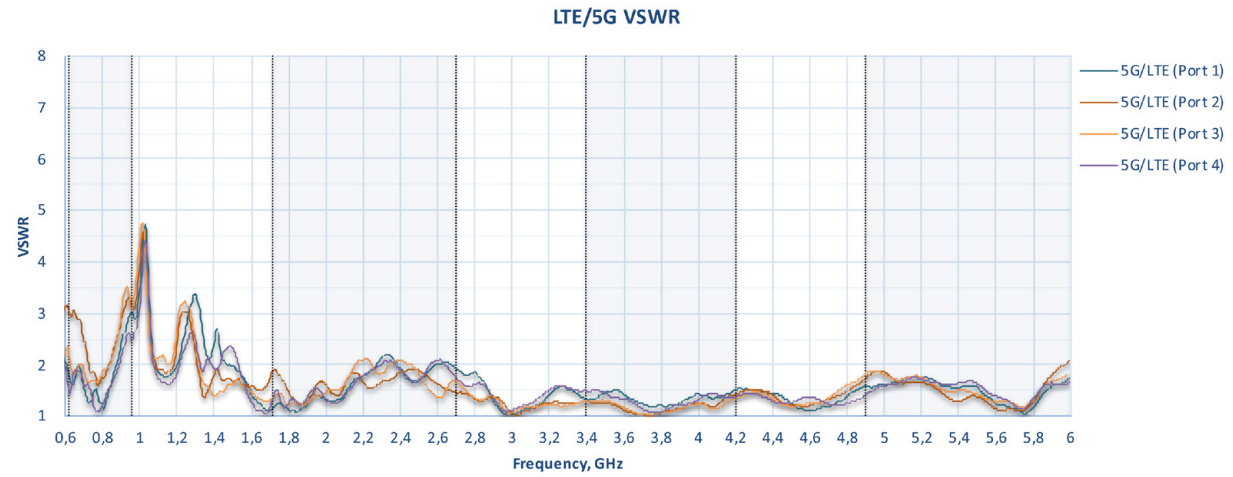
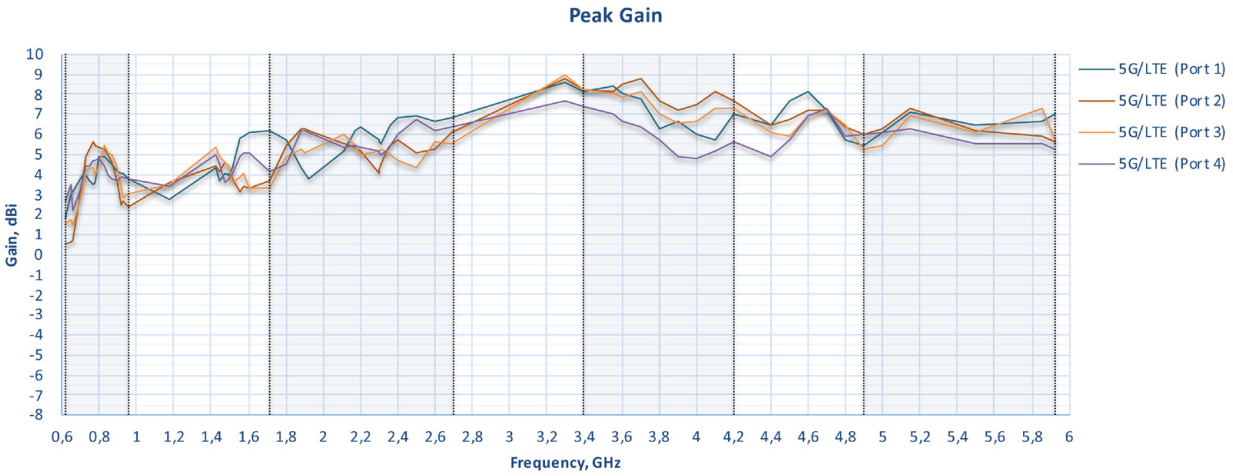
Cellular Antenna Performance

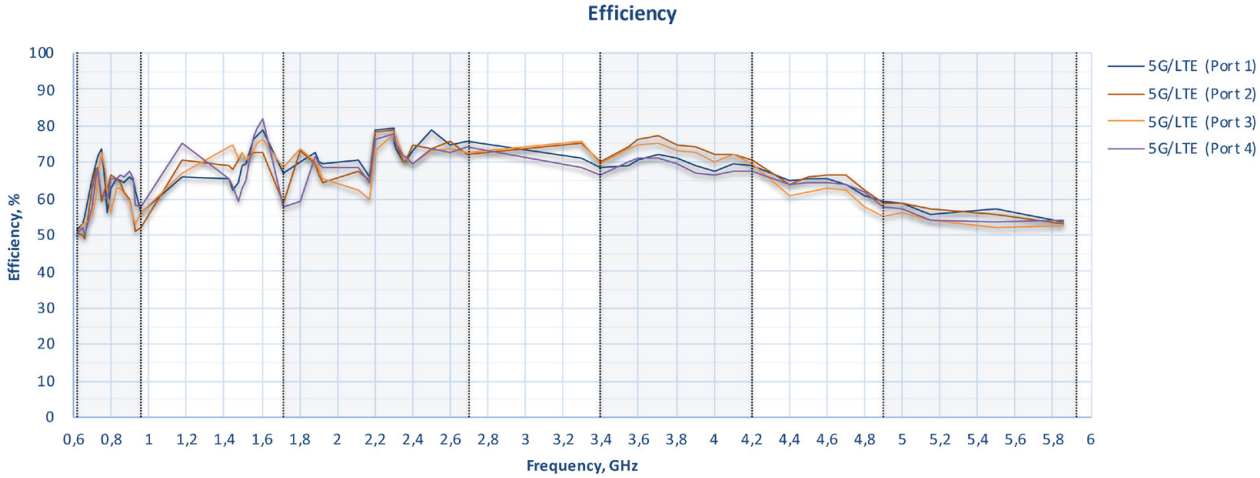
Cellular Antenna VSWR



Cellular Antenna Gain



Cellular Antenna Efficiency



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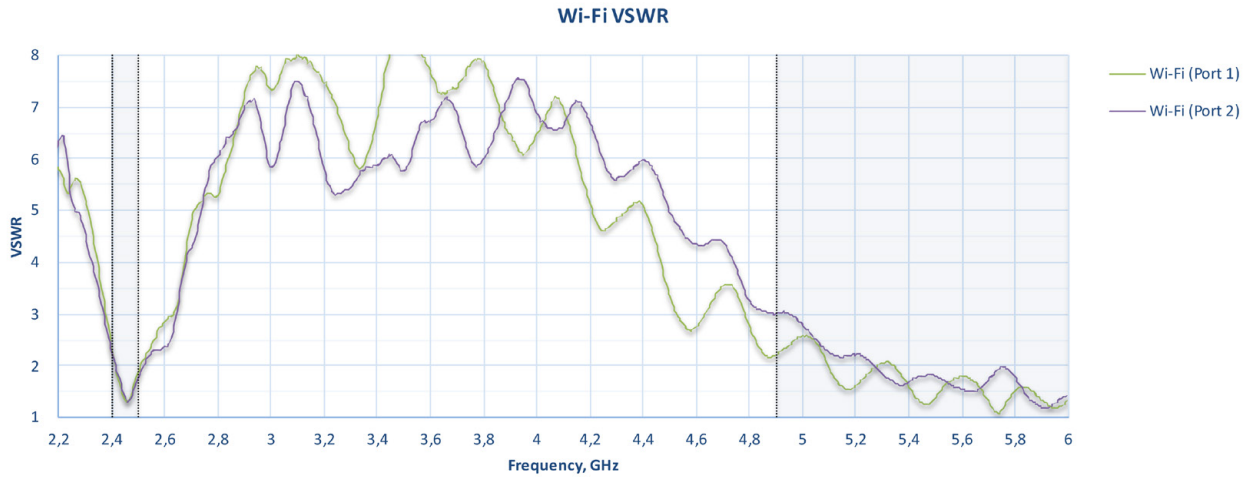
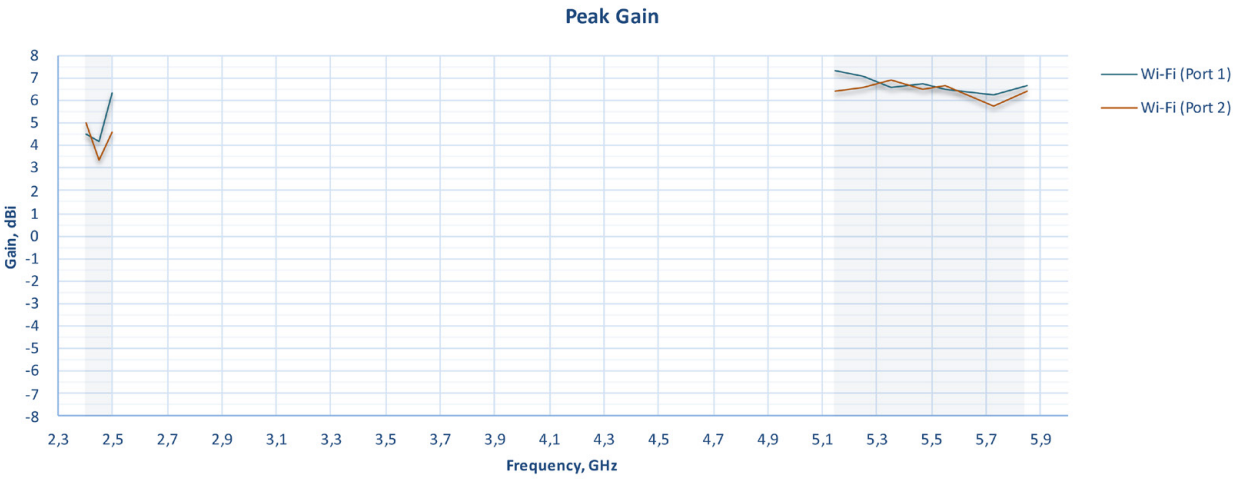
Wi-Fi Antenna Performance

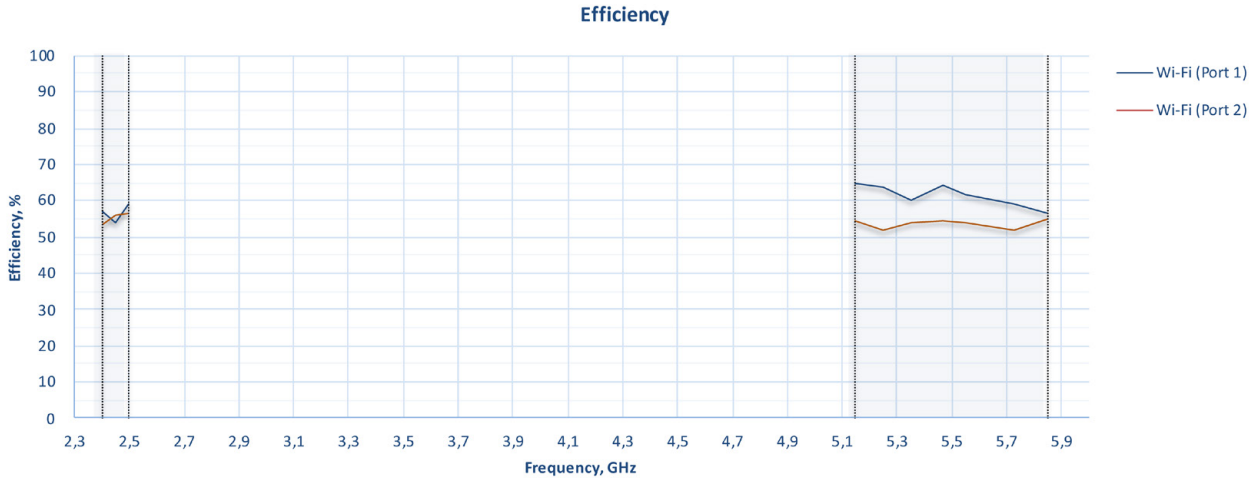
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain



Wi-Fi Antenna Efficiency



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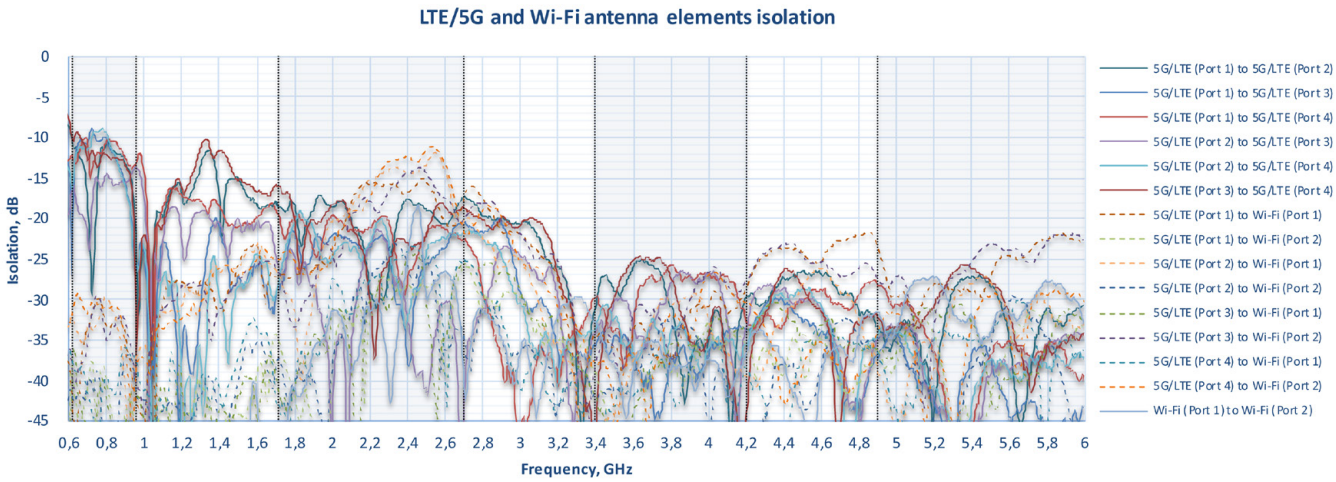
Cellular & Wi-Fi Antenna Performance

Cellular & Wi-Fi Antenna Isolation



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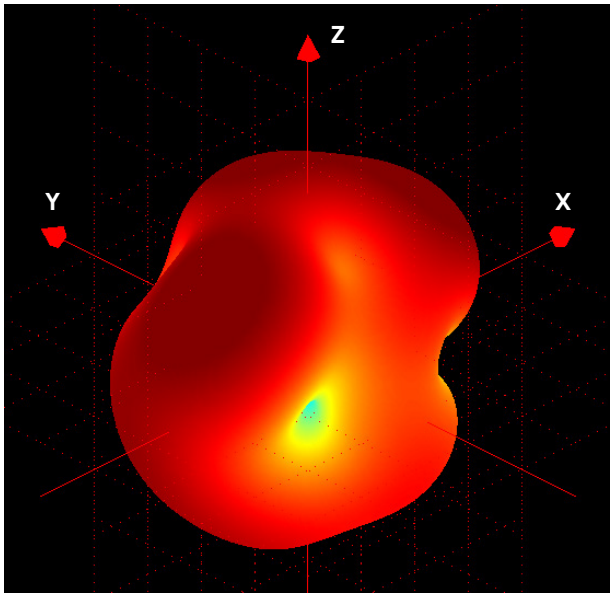
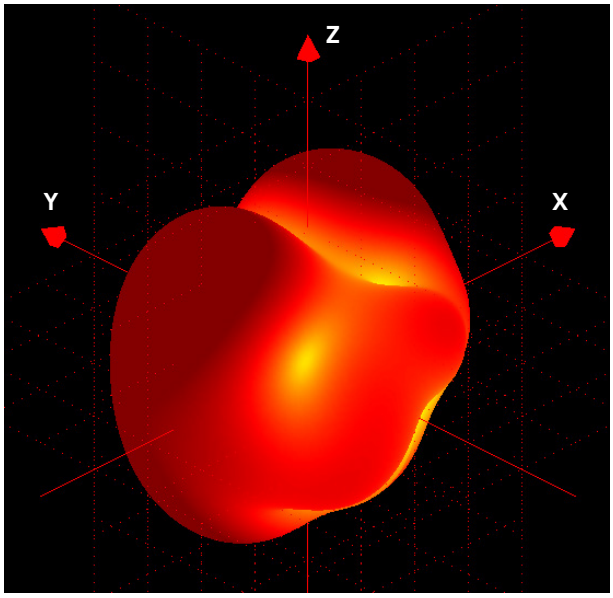
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

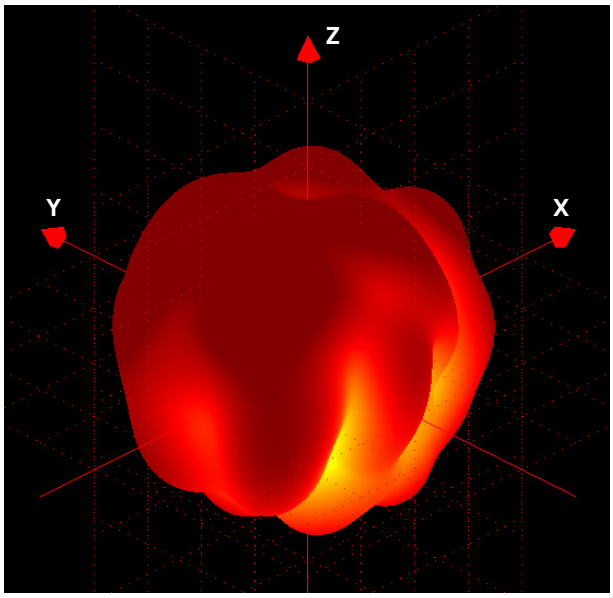
617 MHz



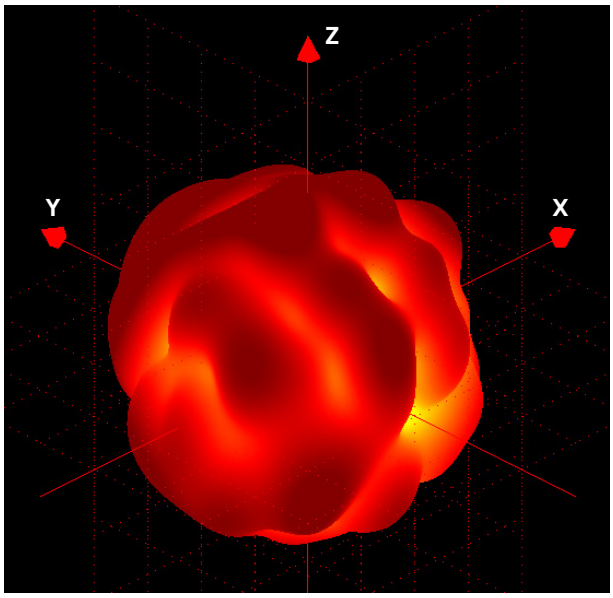
798 MHz



1496 MHz



1805 MHz



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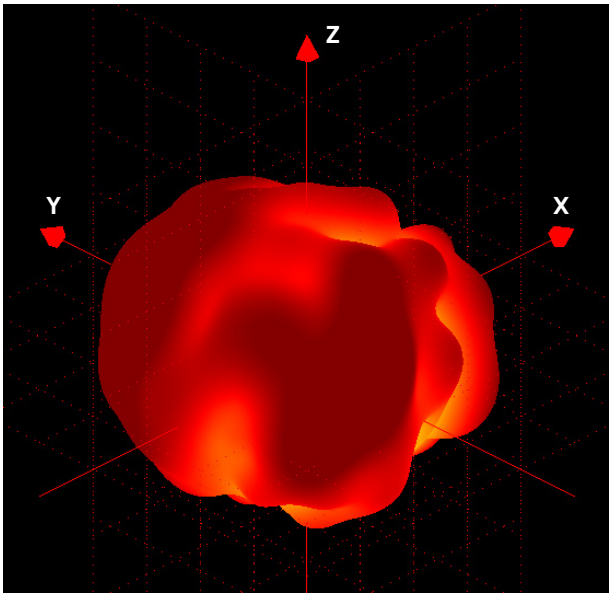
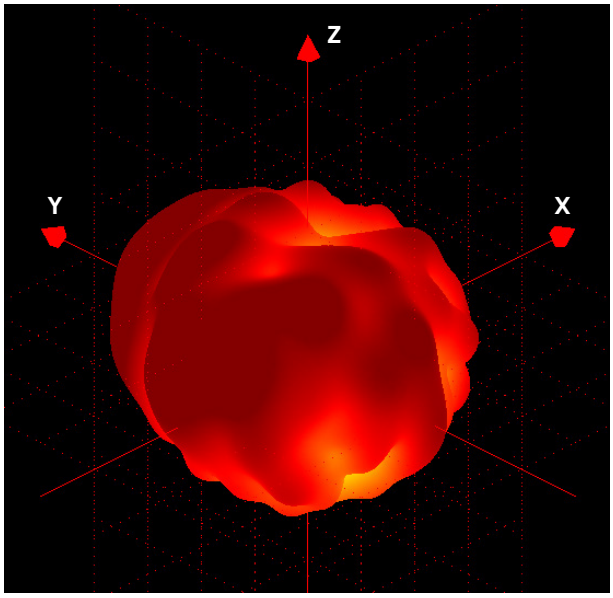
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

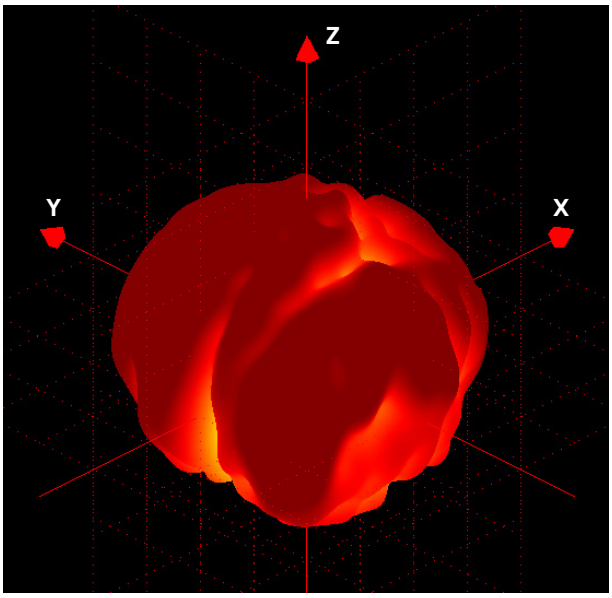
2110 MHz



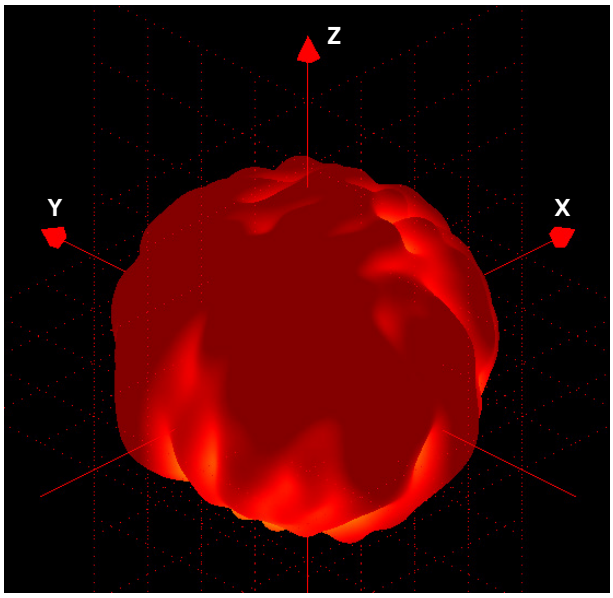
2400 MHz



3550 MHz



3800 MHz



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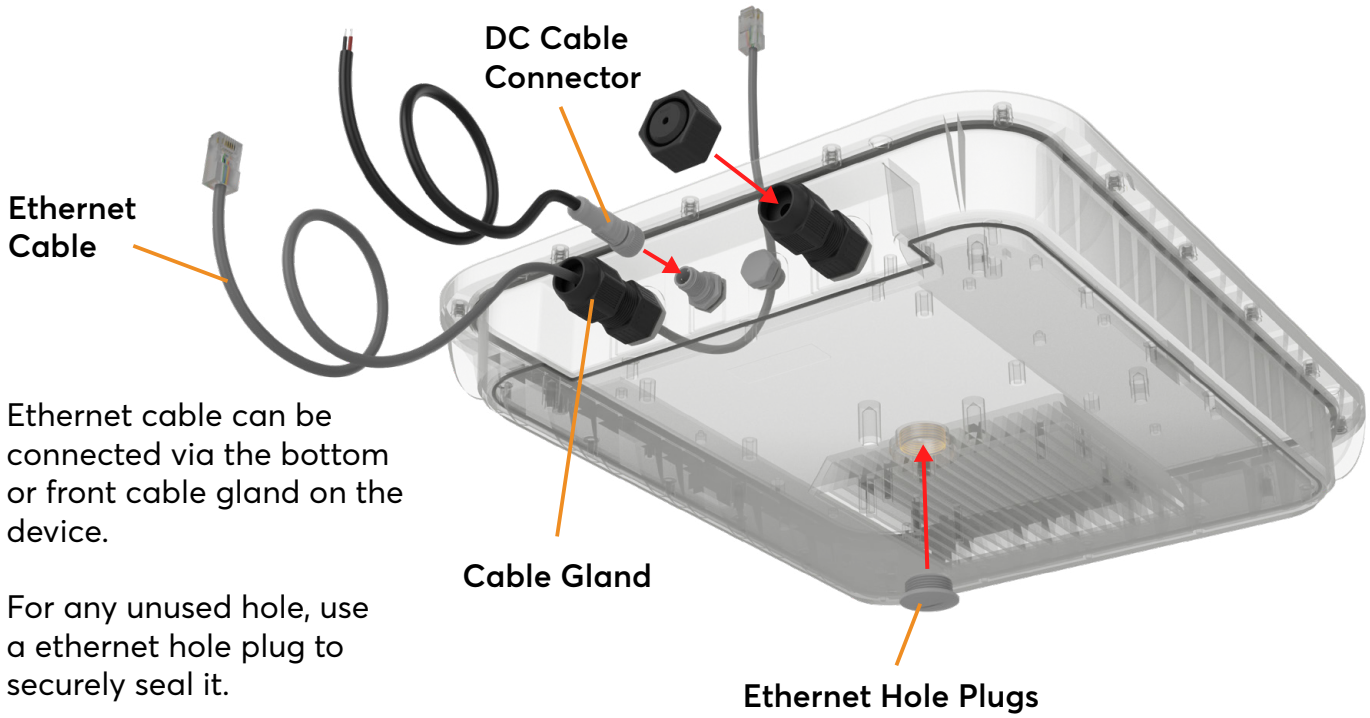
Installation Recommendation

Ethernet and DC Power Cable

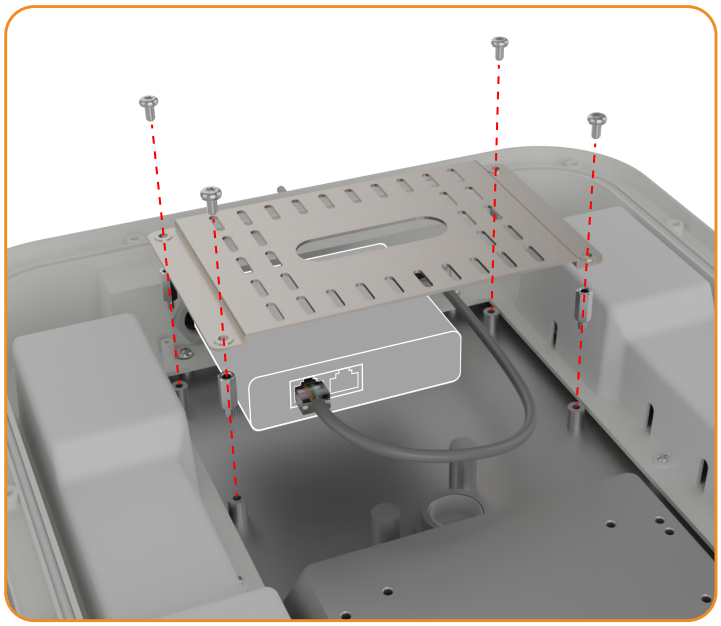


Ethernet cable can be connected via the bottom or front cable gland on the device.

For any unused hole, use a ethernet hole plug to securely seal it.

Install PoE Splitter

Depend your power option, connect the DC Power cable and Ethernet cable to the PoE Splitter* and securely tighten the screws into the corresponding splitter mounting holes.



Note: The PoE Splitter is **NOT included** in the package.

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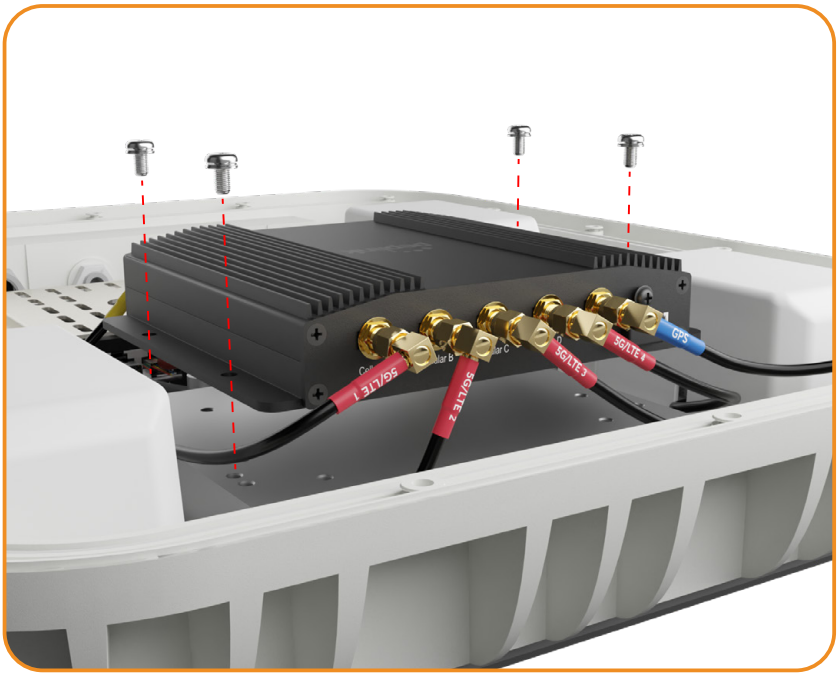
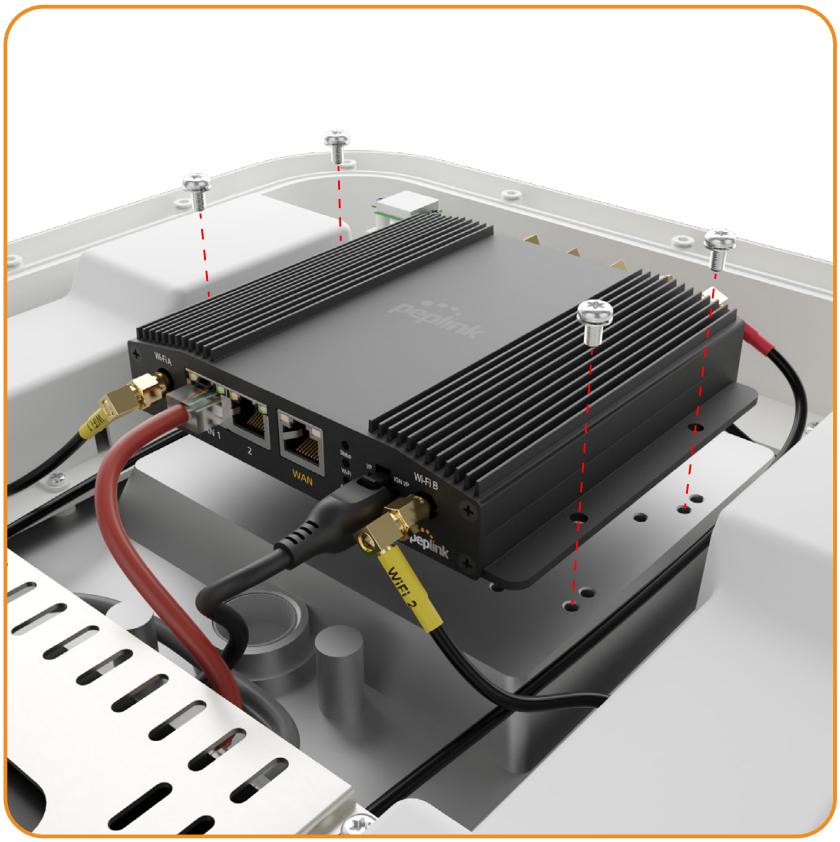
Installation Recommendation

Install Router

Connect the Cellular, Wi-Fi, and GPS antennas.





Then, connect the power and Ethernet cable to the PoE Splitter. After that, securely tighten the screws into the corresponding router mounting holes.

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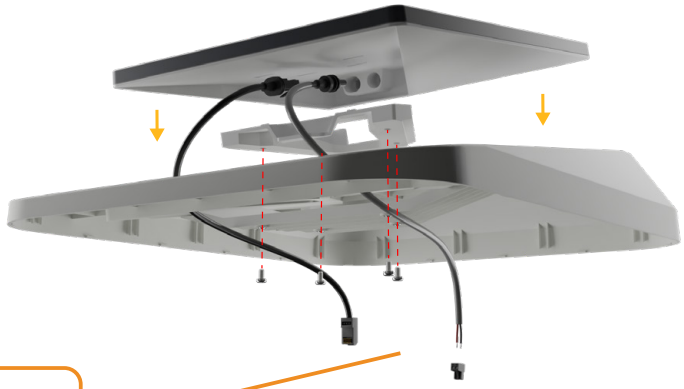
Installation Recommendation

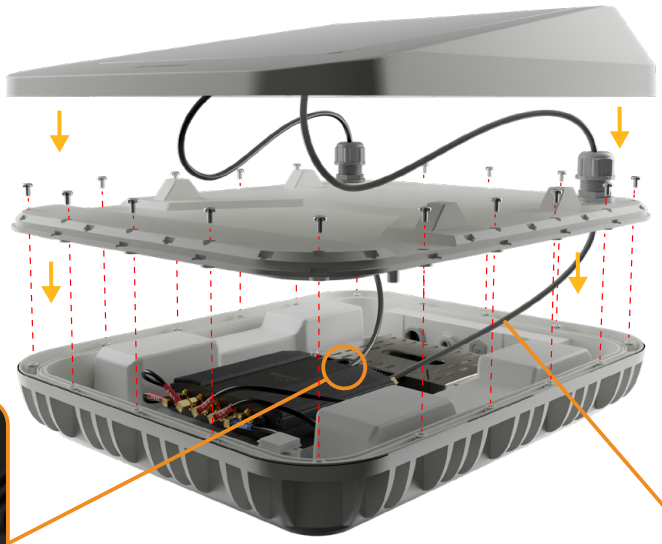
Install Starlink Mini



Connect the Ethernet and power cables to the Starlink Mini, and securely tighten the screws into the corresponding antenna mounting holes.

Insert the ends of the wires into the micro fit connector. Use a screwdriver to tighten the screw and secure the wires in place.

Connect to the Router and Splitter



Starlink power cable can be connected via the cable gland to the PoE Splitter.

Connect the Ethernet cable to the WAN port of the router.

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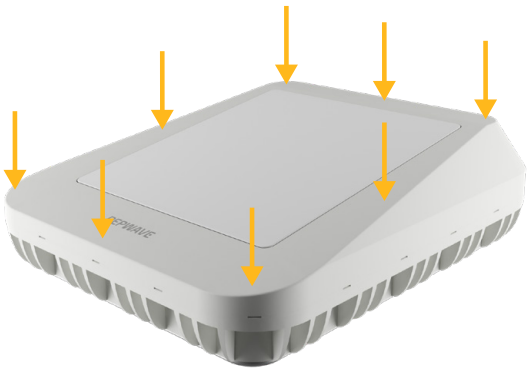
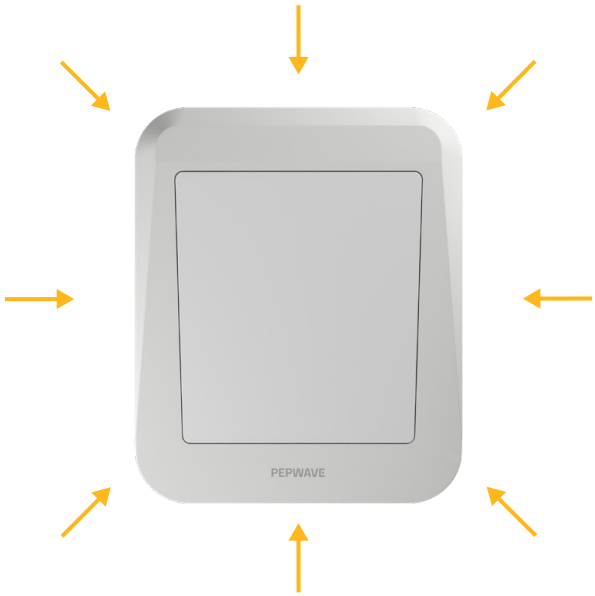
Installation Recommendation

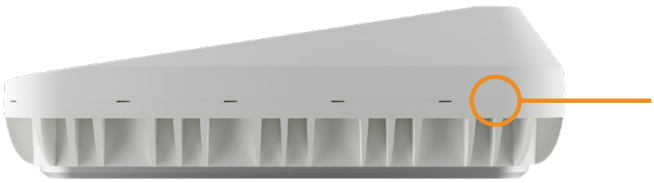
Ensure Proper Locking of the Upper Cover



To securely attach the upper cover, apply a downward force to lock it in place vertically.

Apply pressure from the side to ensure the lock is secured horizontally.





Verify that there is no gap between the upper and lower covers.

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Installation Recommendation

Wall Mount

Pole Mount

Horizontal Pole

Vertical Pole

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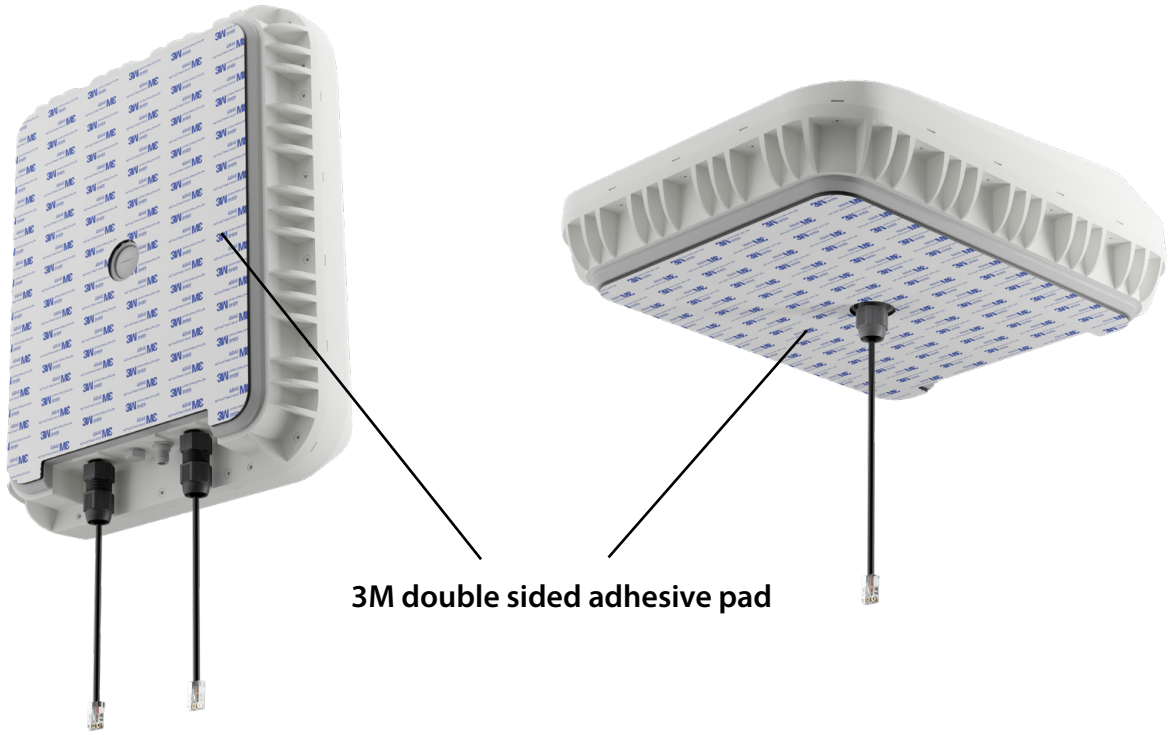
Installation Recommendation

Surface Mount



Magnetic Mount

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

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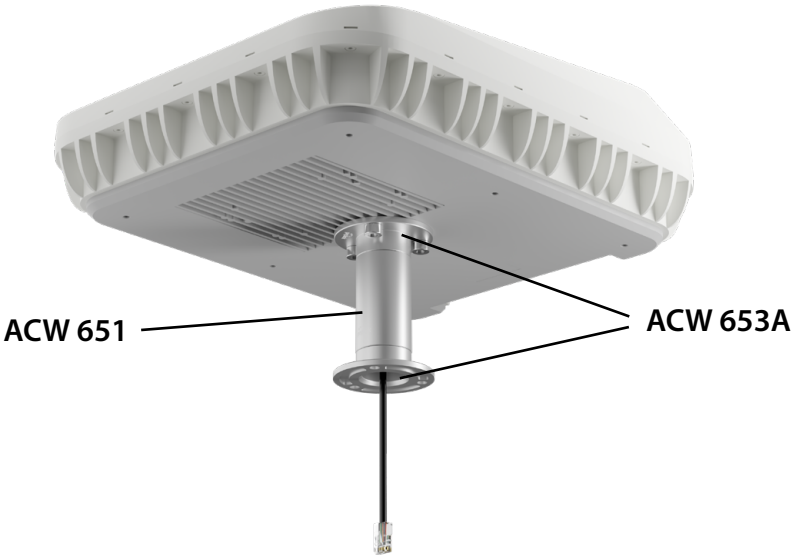
Installation Recommendation

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 utilized to secure the Antenna MAX S to vehicle roof racks or custom mounts.

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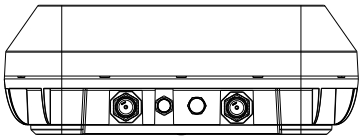
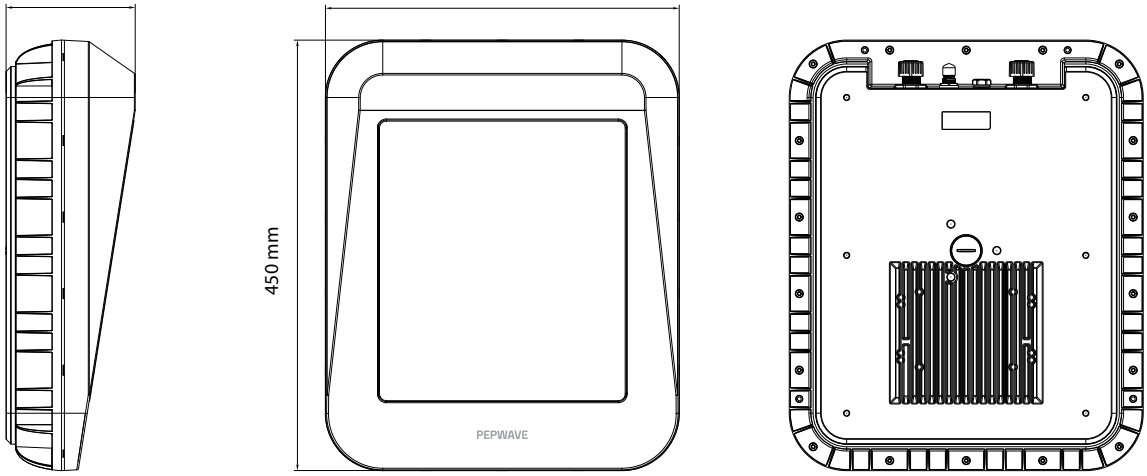
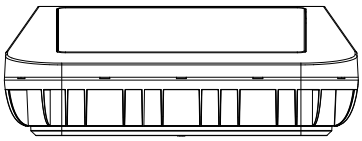
Packing List Information

Antenna



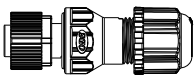




L-wrench
(T20 M4*8)

M25 hole plug
(1 pcs)

RJ45 Caps
(2 pcs)



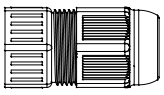
DC Cable Connector
(1 pcs)

Bolt
(28 pcs, T20 M4xL8)
Cover

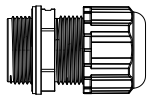
Bolt
(4 pcs, T20 M4xL8)
PoE

M4 Spring Washer
(4 pcs)

M4 HEX Standoff Screw
(4 pcs)

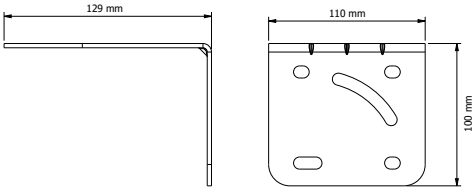


RJ45 Gland
(2 pcs)

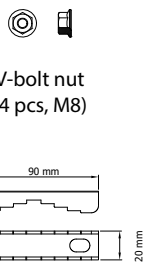


M25 Cable Gland
(3 pcs)

L-Mount Mount Set

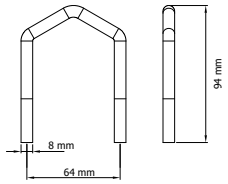


L-Mount

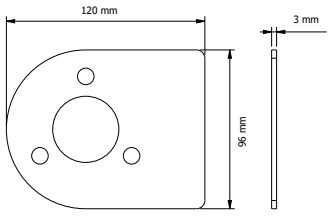


V-bolt nut
(4 pcs, M8)

Bracket
(2 pcs)



V-bolt
(2 pcs)



Rubber Pad
(1 pcs)

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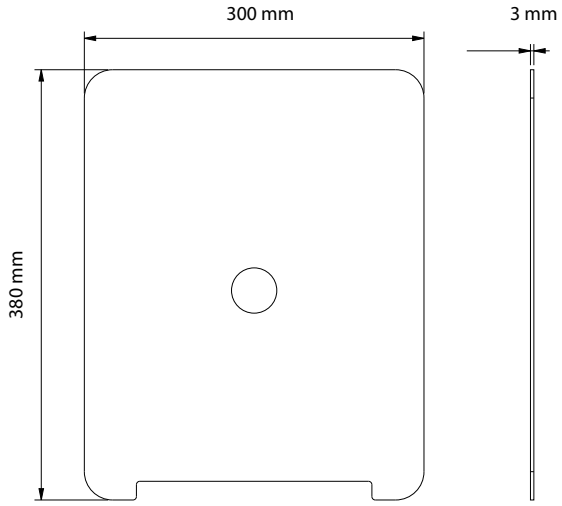
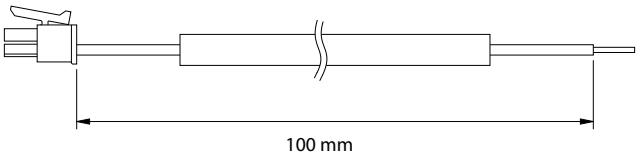
Packing List Information

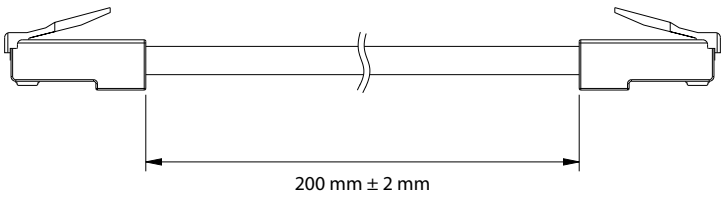
Adhesive Pad



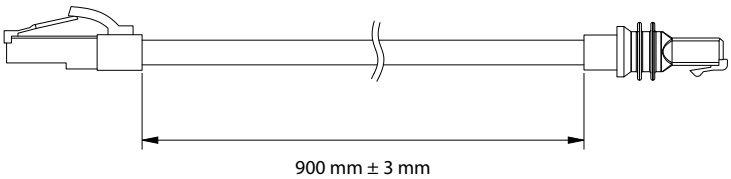
Cables



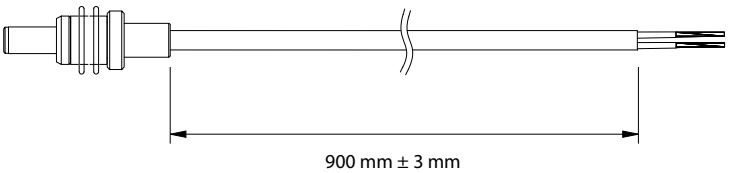
DC Cable



Ethernet Cable



Starlink Ethernet cable



Starlink power cable

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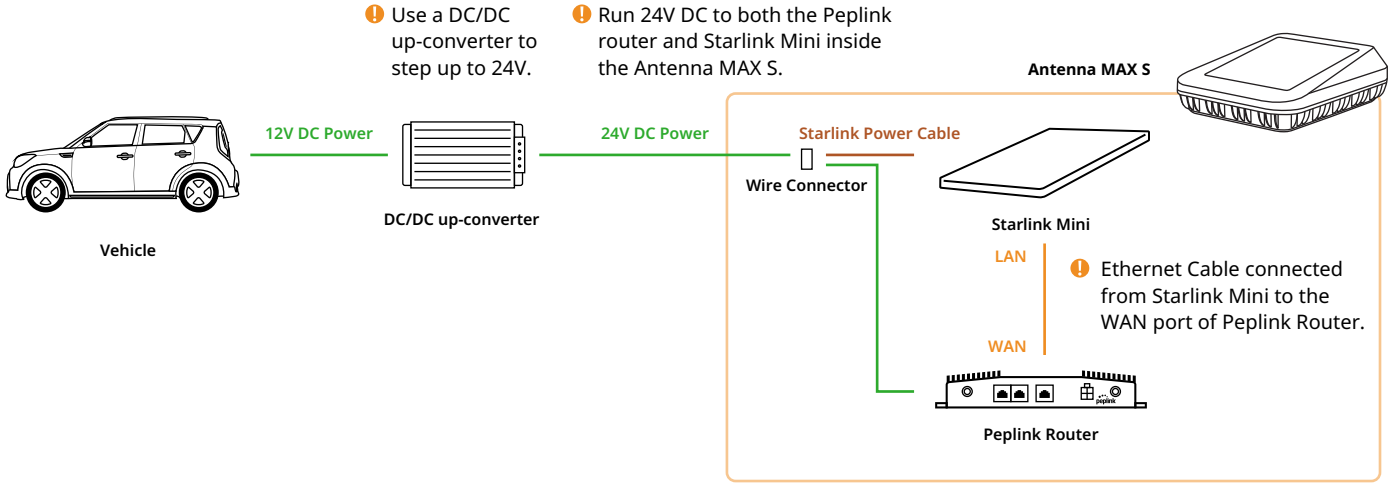
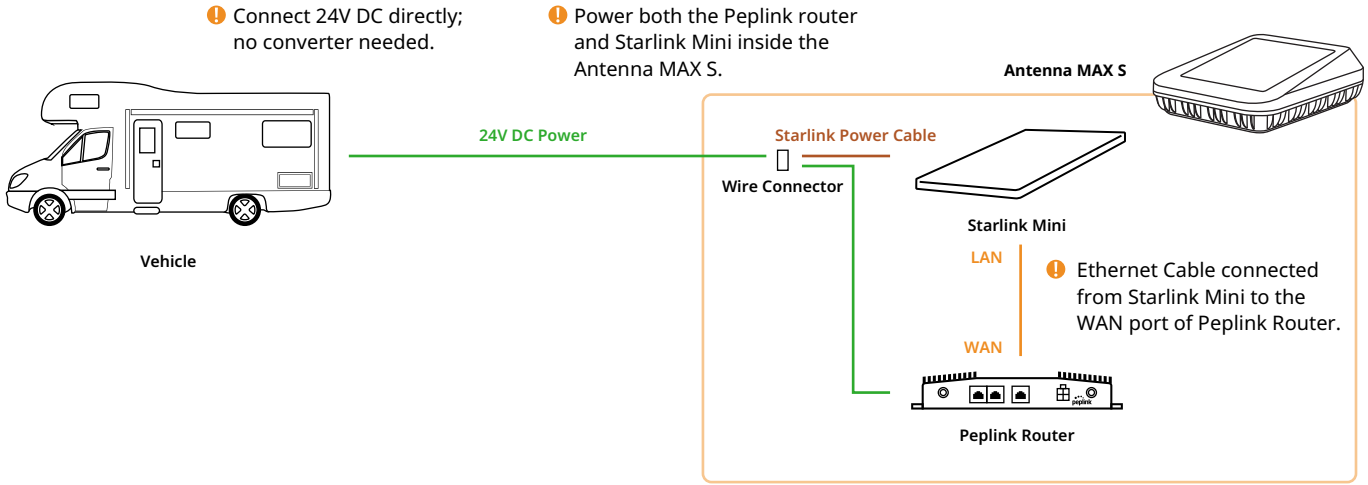
FAQ

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

12V Vechicle Battery



24V Vechicle Battery



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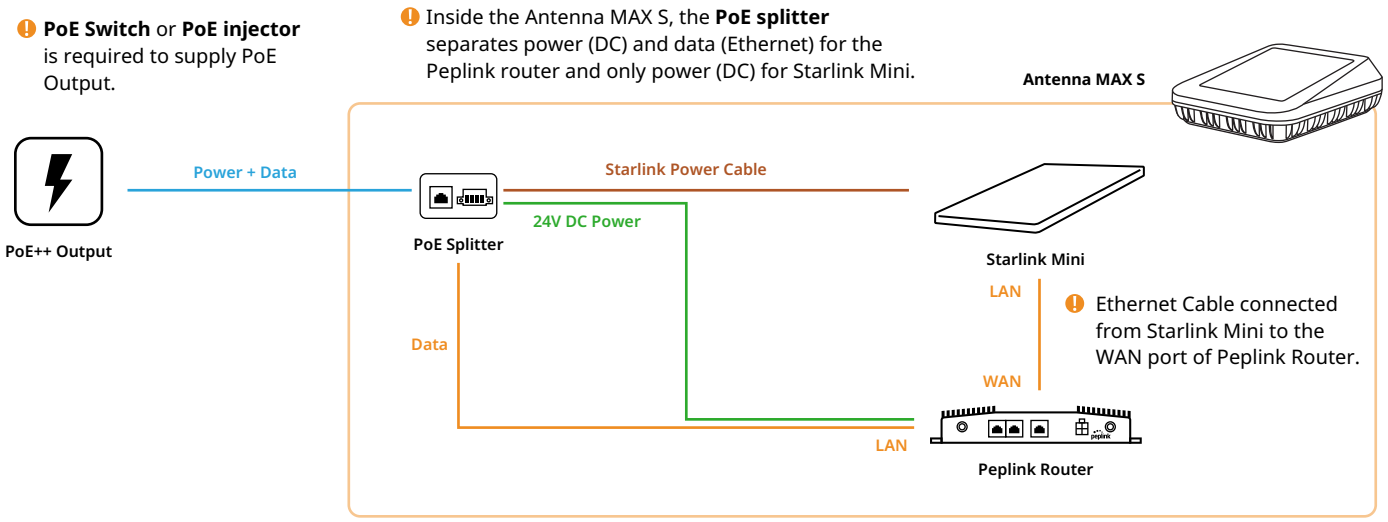
FAQ

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

802.3bt 90W PoE



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