

PEPWAVE



peplink x STARLINK

Antenna MAX S HW3

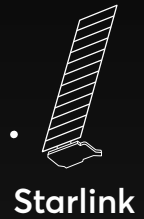
Rapid Deployment.
All-in-One. 5G + Starlink.

Integrated Antenna Enclosure for Peplink and Starlink

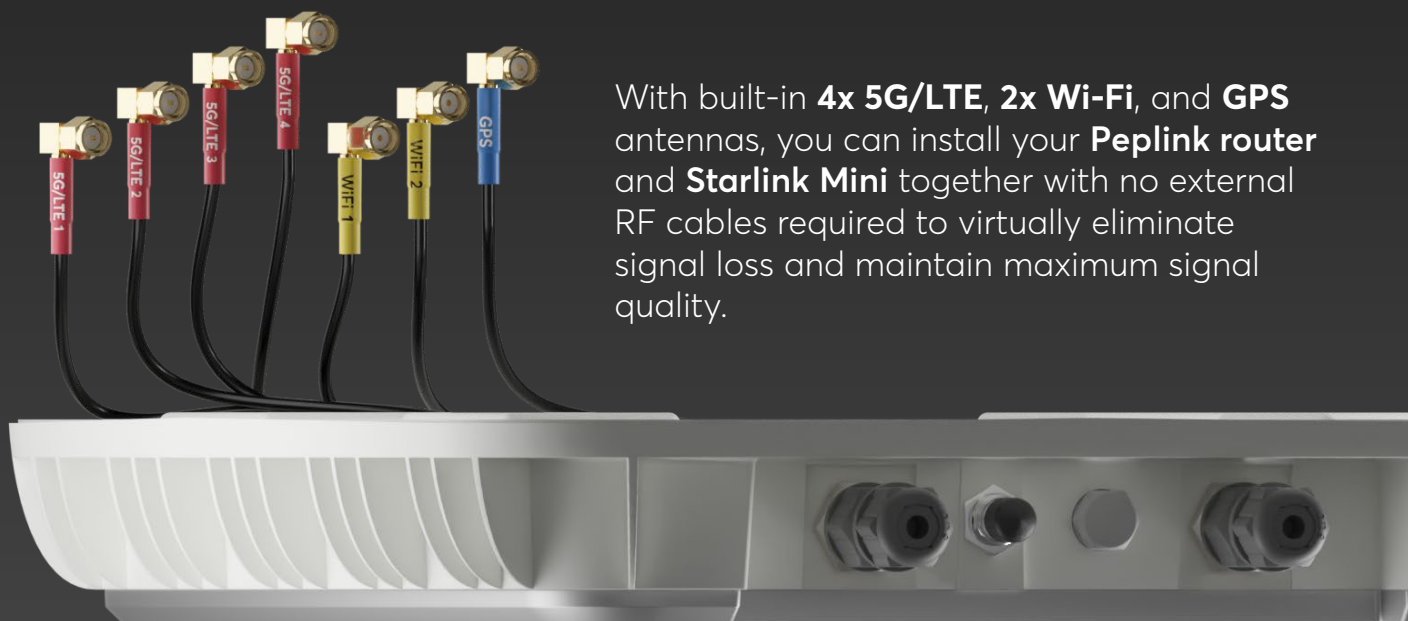
TAA 
COMPLIANT

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

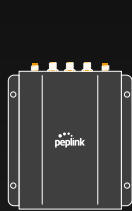
The Antenna MAX S is engineered for outdoor longevity, built with UV- and salt-resistant plastics, fitted with a metal base for heat dissipation, designed to withstand high wind loads for fixed or mobile applications.



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.

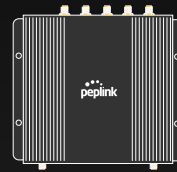
Use the top cover's watertight clasp system to conveniently secure the Peplink router of your choice:



BR1 Mini Series ¹



Transit Duo Pro



BR1 Pro Series ²

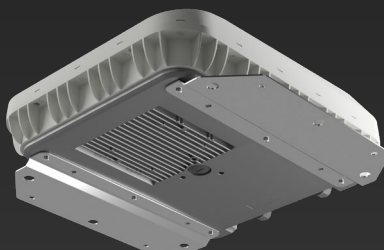
¹ BR1 Mini series: BR1 Mini, BR1 Mini Core, BR1 Mini 5G, BR1 Mini M2M.

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.



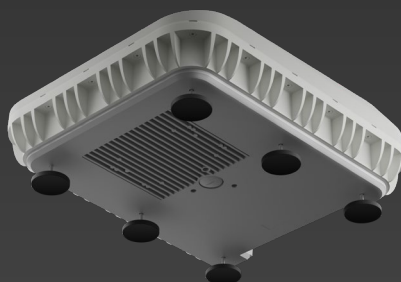
Adhesive Surface Mount



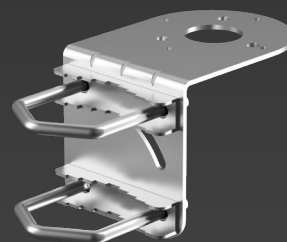
Surface Mount



Deck Mount



Magnetic Mount



Pole Mount

Note: The deck , surface 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 6.8dBi: 1410-2700MHz 8.9dBi: 3300-4400MHz 7.3dBi: 5000-6000MHz	Peak Gain & Frequencies	6.3dBi: 2400-2500MHz 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 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, Magnetic, Vehicle roof rack, or Custom mounts	Product Dimensions	17.6" / 448mm - Length 14.5" / 368mm - Width 5.3" / 135mm - Height
Package Contents		Packaged Dimensions	585 x 456 x 185mm / 23.03" x 17.95" x 7.28"
Package Contents	Antenna MAX S L-mount set Power supply/splitter mounting set Router fixation screws 2pcs RJ45 Gland Accessory Kit (ACW-421) 2pcs M25 cable glands 1pc M25 hole plug 2pcs Hole plug 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) 1pc DC cable-connector (ACW-425) 1pc Starlink Mini Adapter Mount (ACW-424)	Enclosure Material	Bottom plate - Aluminium Other parts - UV stable PC
Environmental, Compliance			
IP Rating	IP67	Compliance	ROHS, REACH, WEEE
Operating Temperature	-40° - 176°F / -40° - 80°C	Enclosure Flammability	UL 94 V-0 (1.47mm)
Storage Temperature	-40° - 176°F / -40° - 80°C	UV resistance	UL 746C (F1 long-term UV exposure)
		Salt Spray	ASTM B117

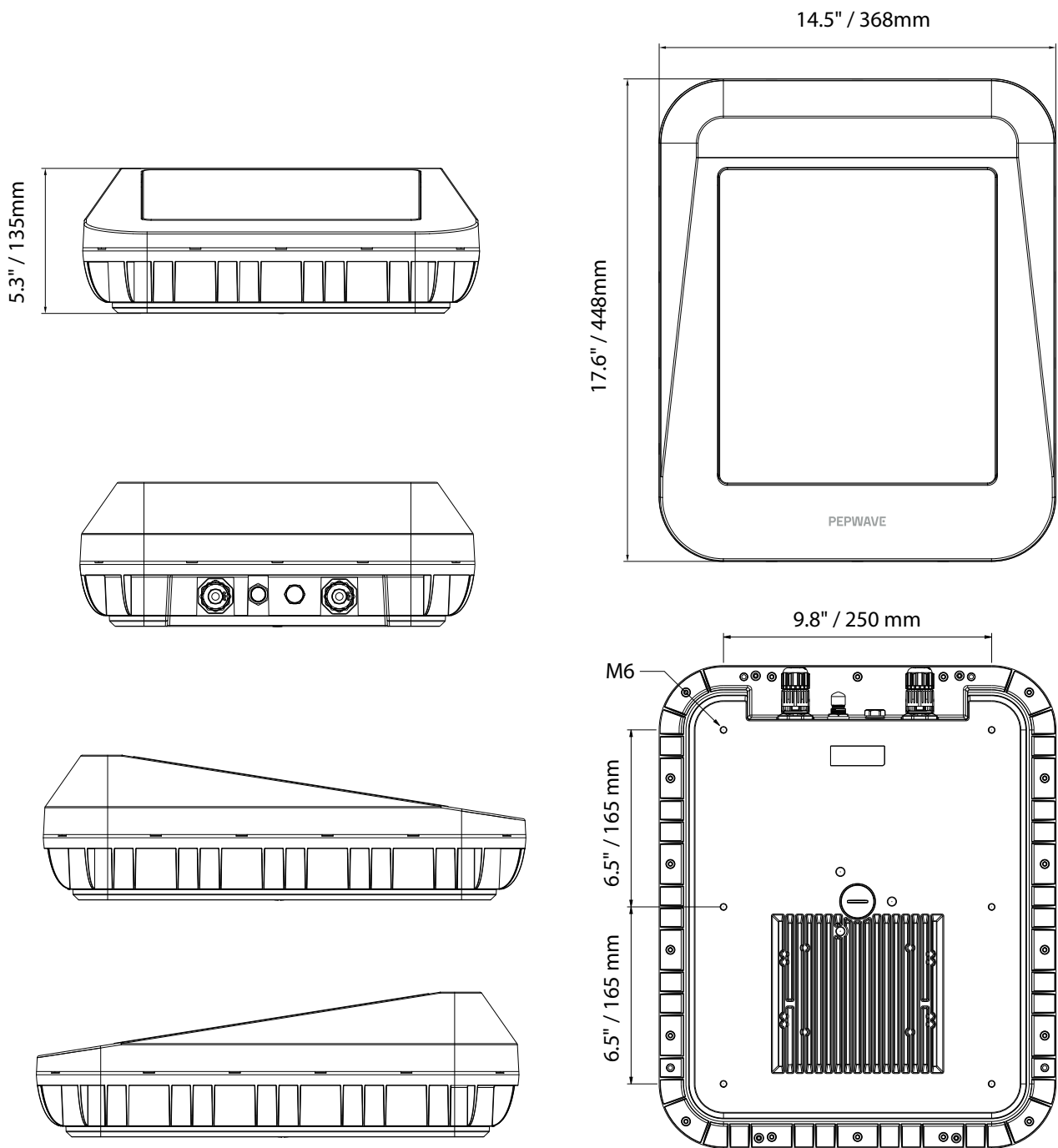
Ordering Information

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

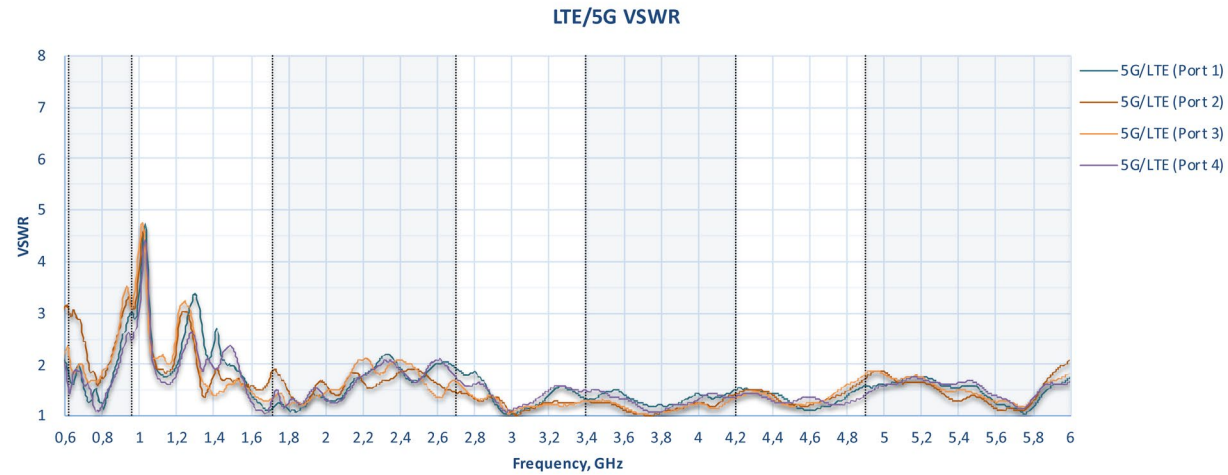
Product Code	Description
ACW-651	1" 14 TPI female to Mobility thread for deck mount
ACW-653A	1 1/4" 11 TPI male adapter for deck mount
ACW-676	Magnetic Mount for Antenna MAX S
ACW-677	Surface Mount Kit for Antenna MAX Duo / Antenna MAX S

Technical Drawing

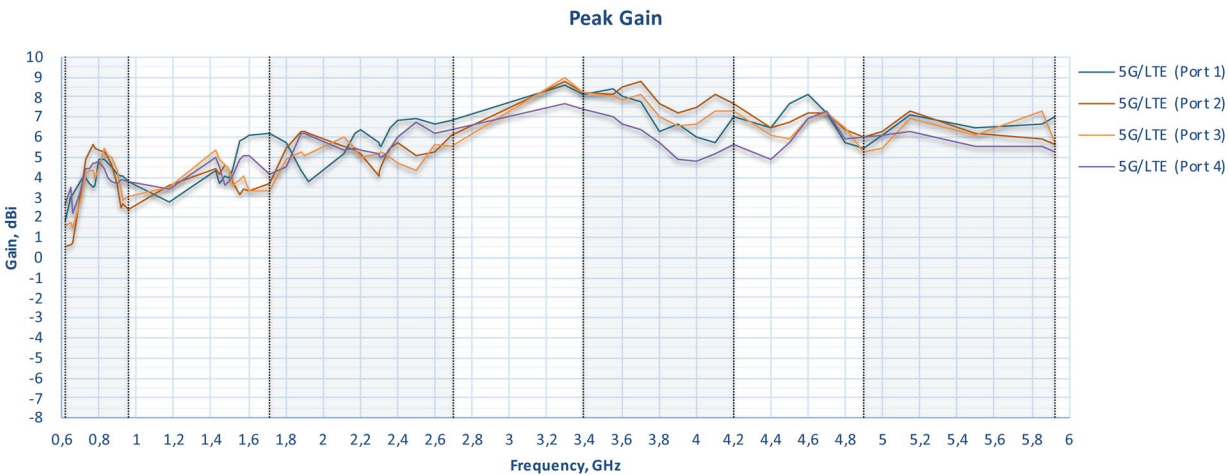


Cellular Antenna Performance

Cellular Antenna VSWR



Cellular Antenna Gain

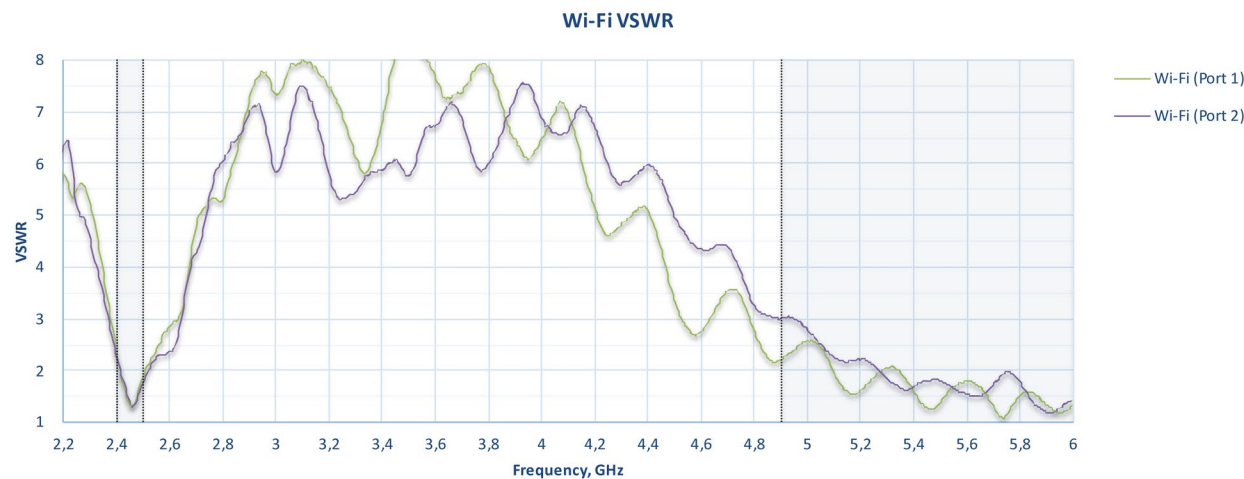


Cellular Antenna Efficiency

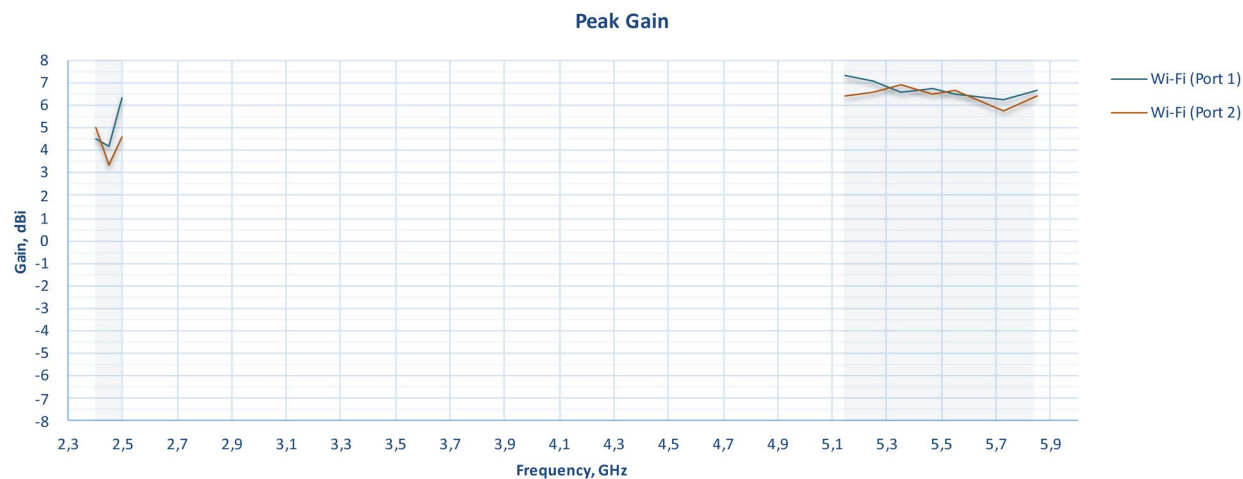


Wi-Fi Antenna Performance

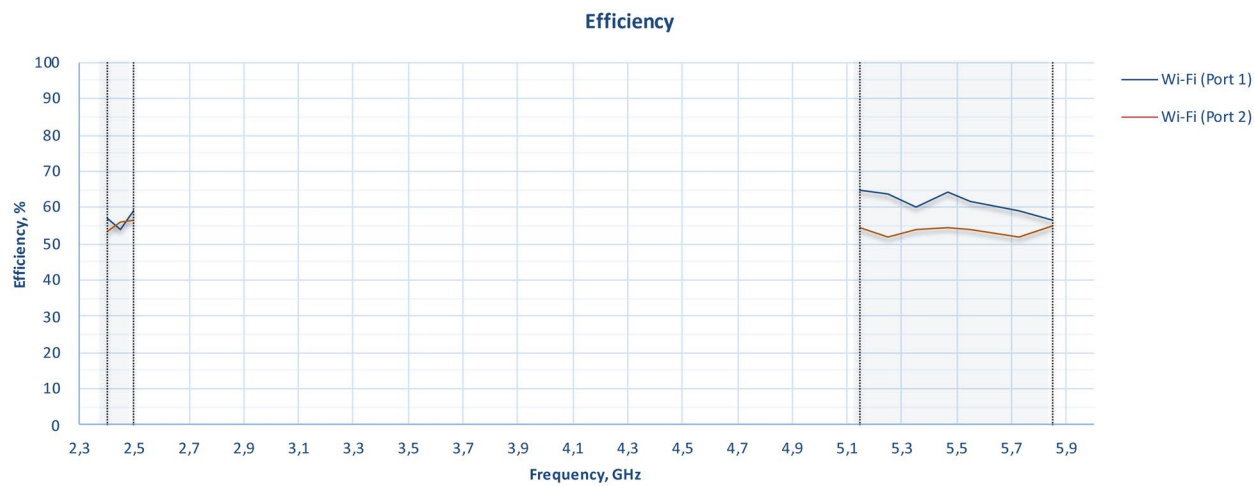
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain

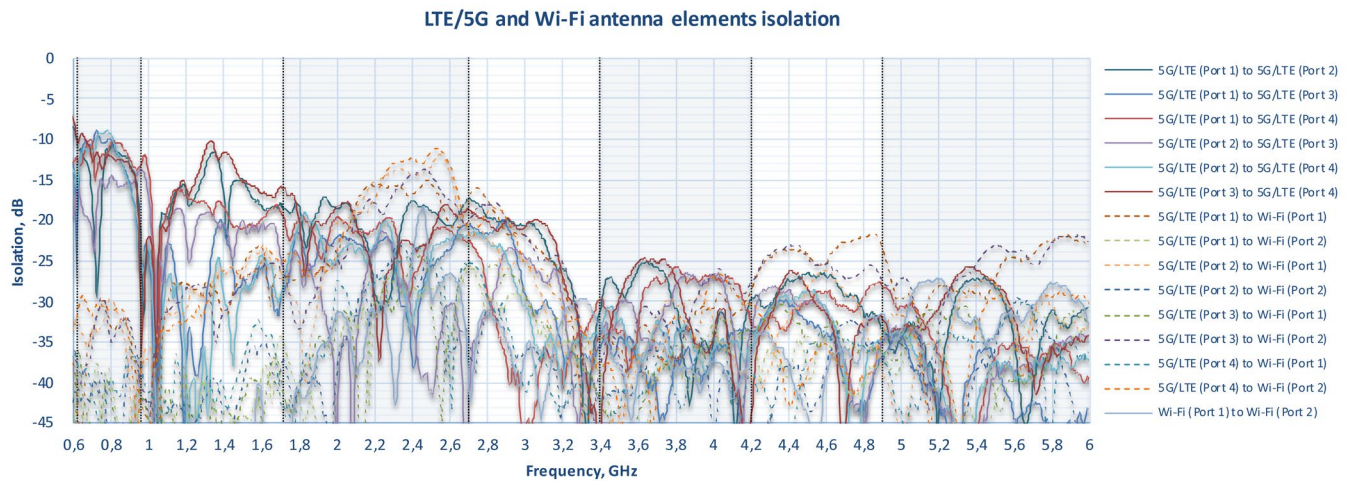


Wi-Fi Antenna Efficiency



Cellular & Wi-Fi Antenna Performance

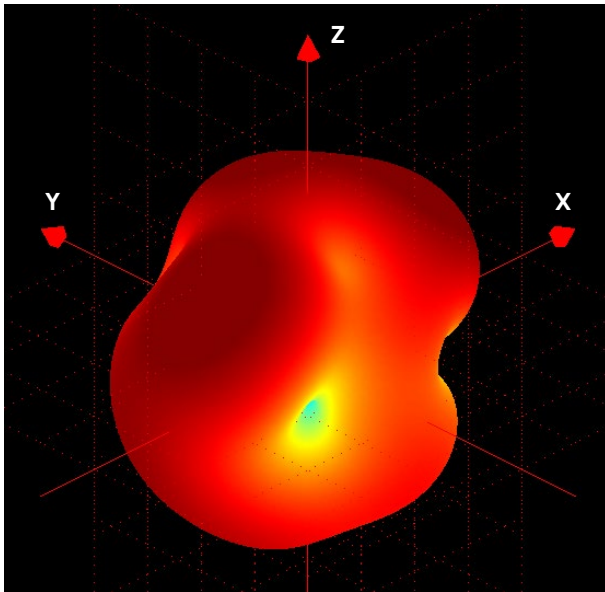
Cellular & Wi-Fi Antenna Isolation



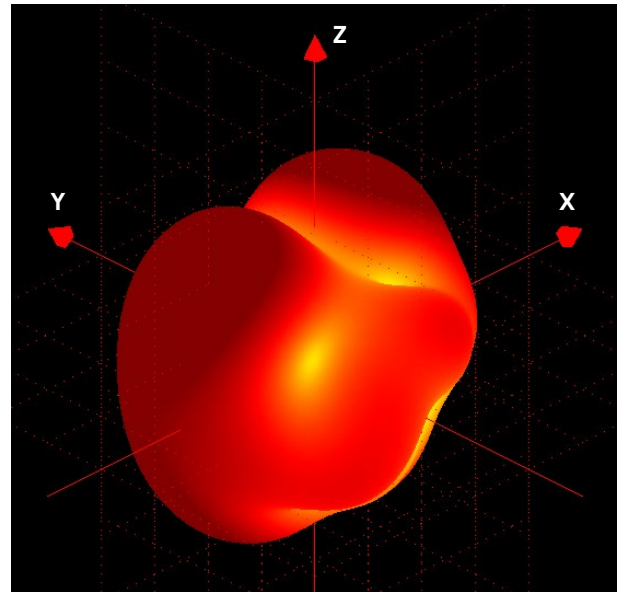
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

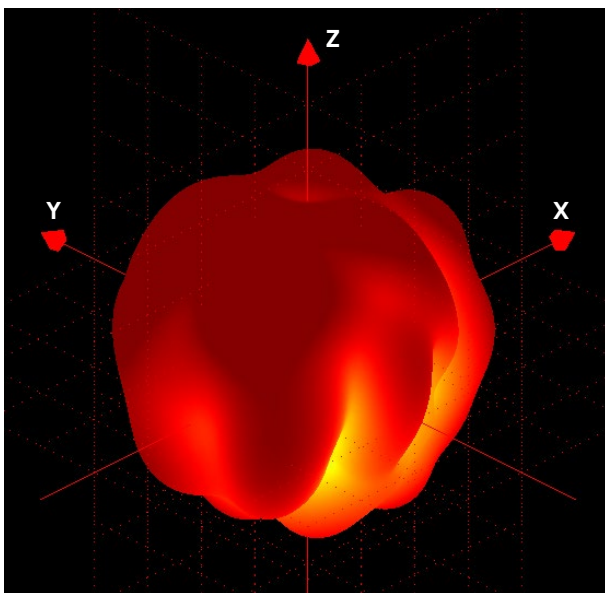
617 MHz



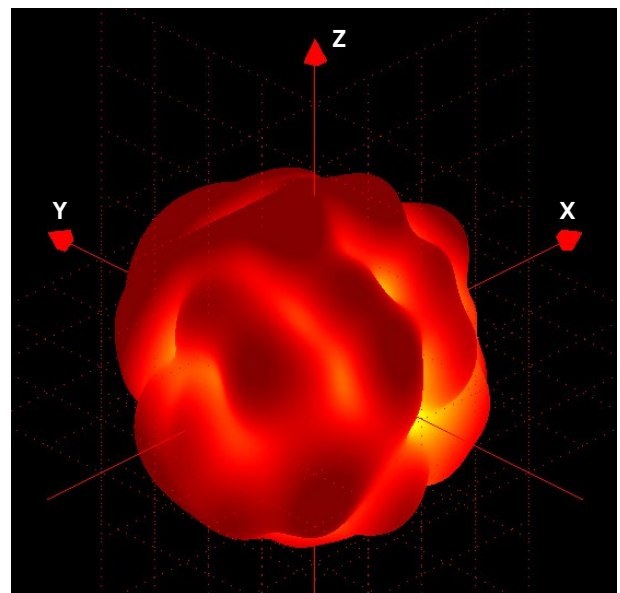
798 MHz



1496 MHz



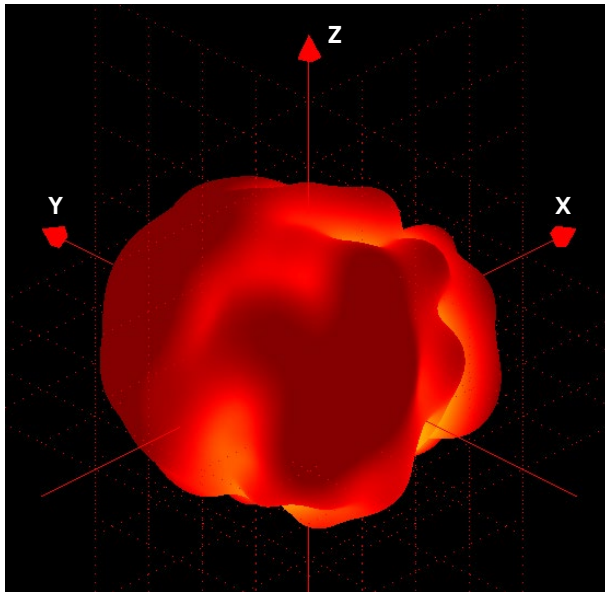
1805 MHz



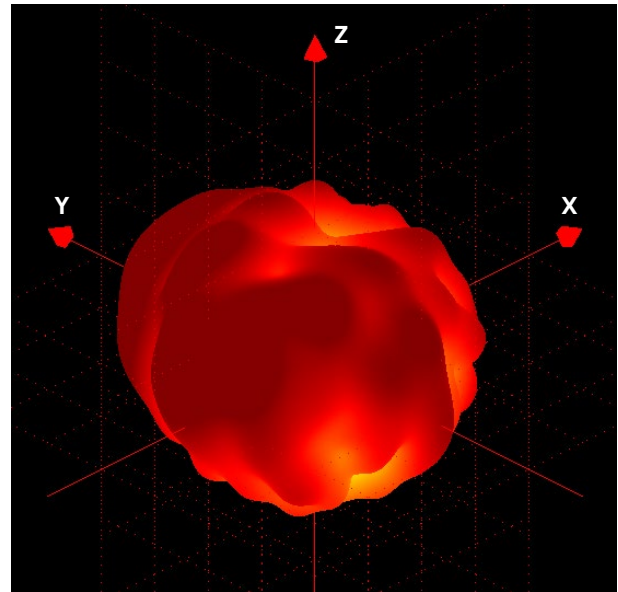
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

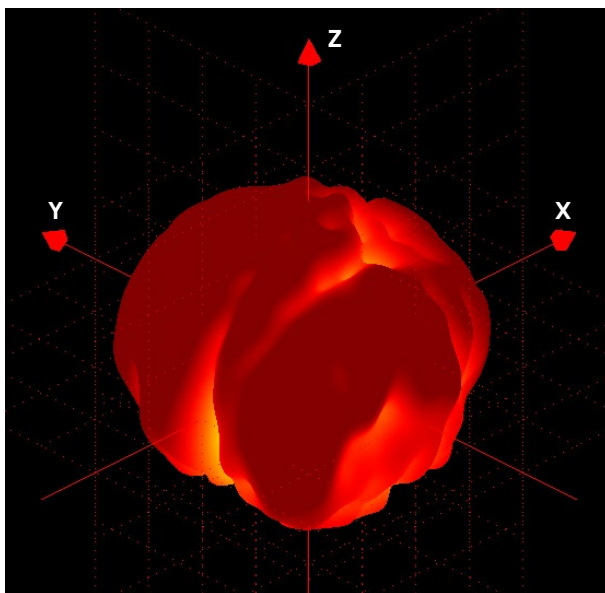
2110 MHz



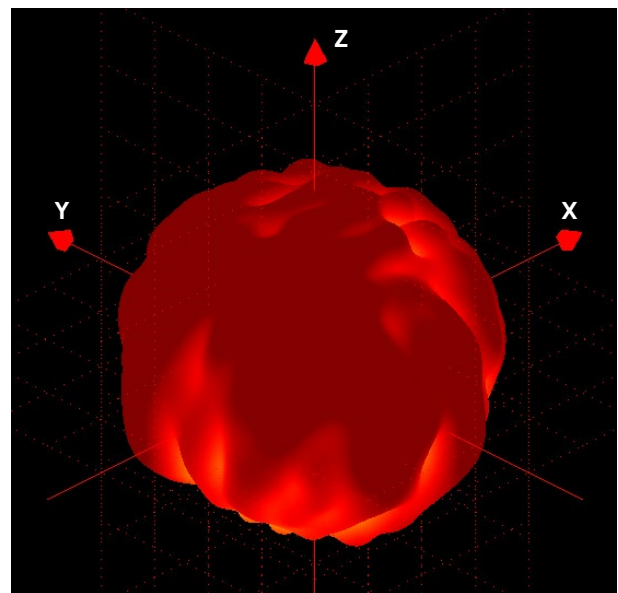
2400 MHz



3550 MHz

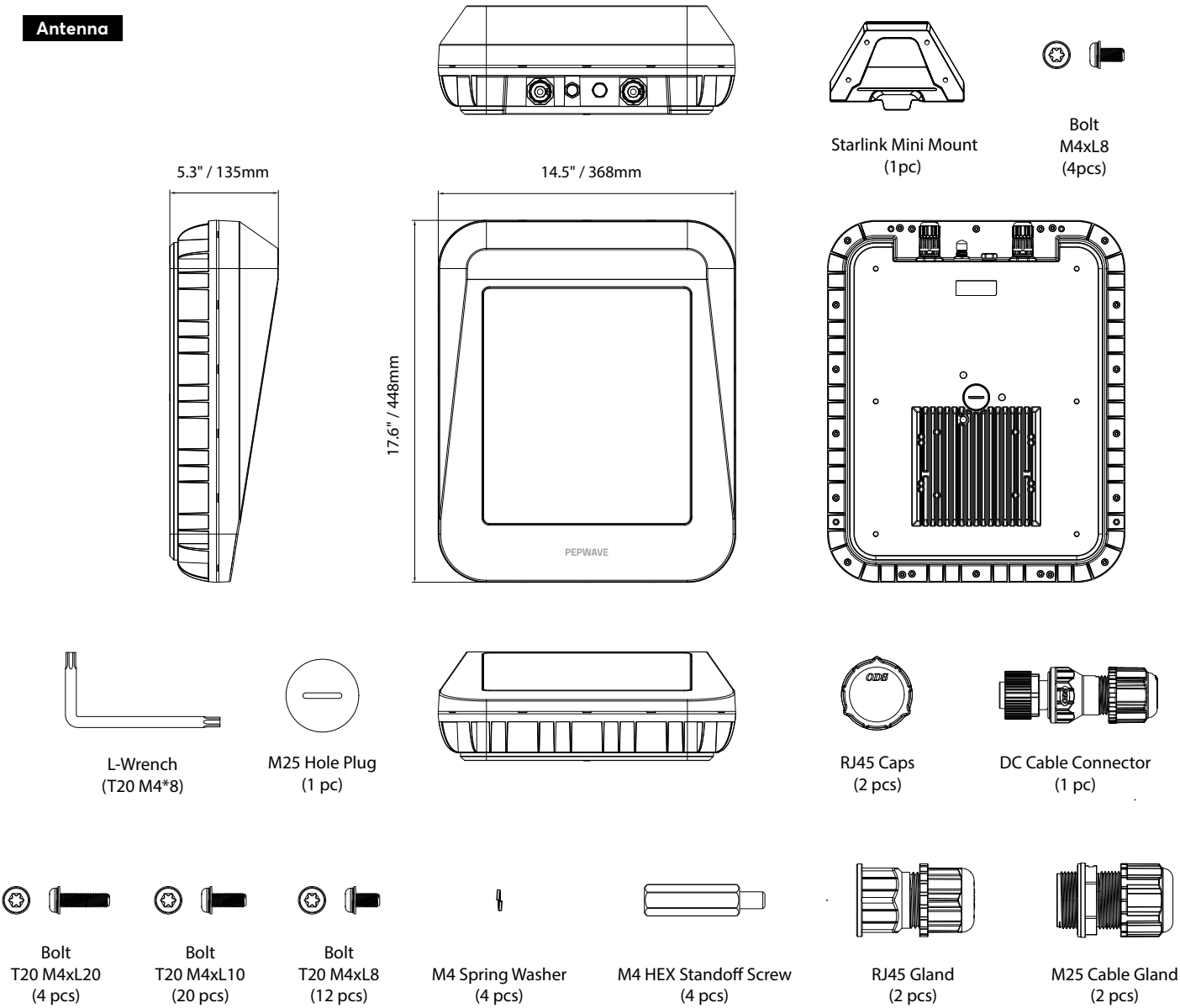


3800 MHz

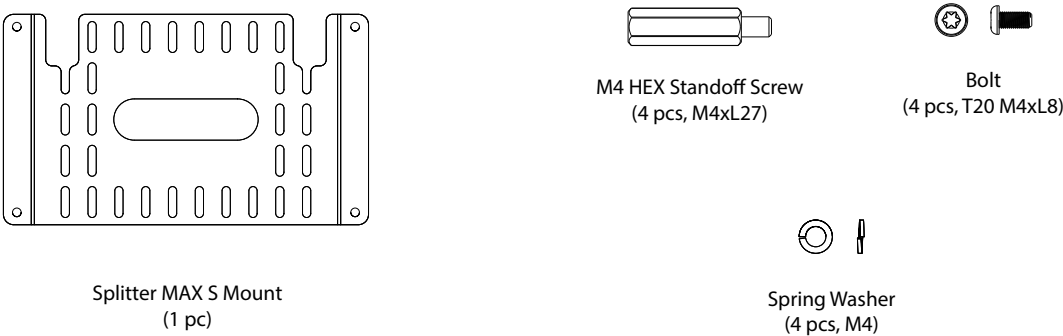


Packing List Information

Antenna

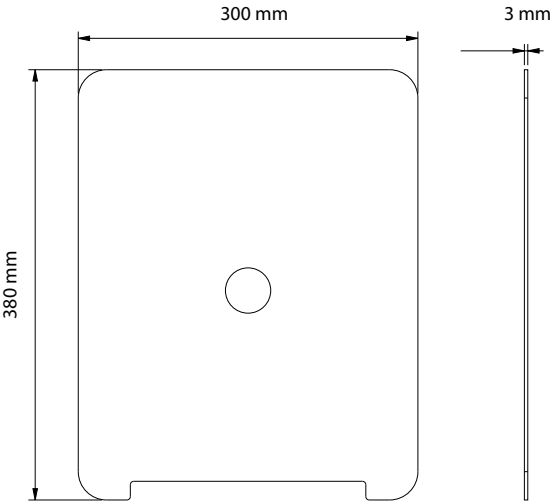


PoE Splitter Mount Set

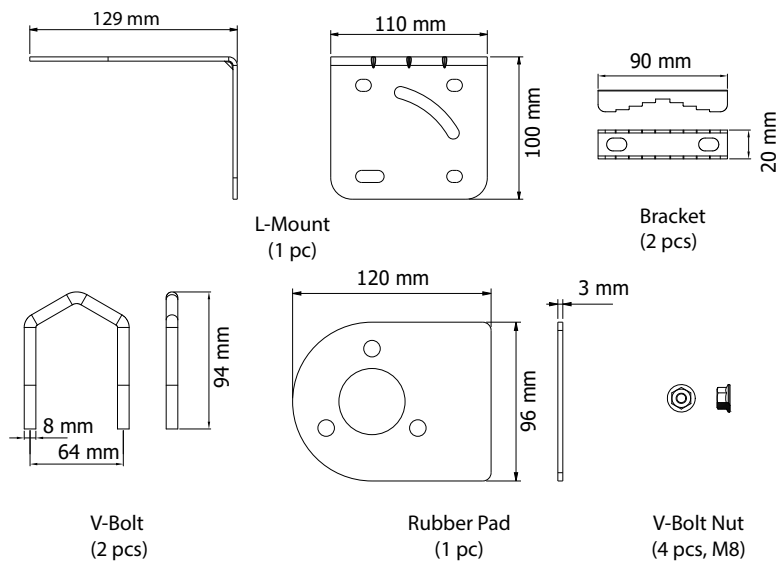


Packing List Information

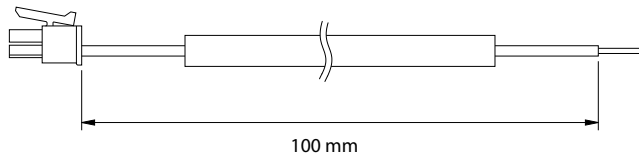
Adhesive Pad



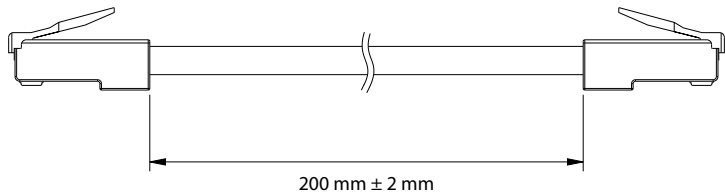
L-Mount Mount Set



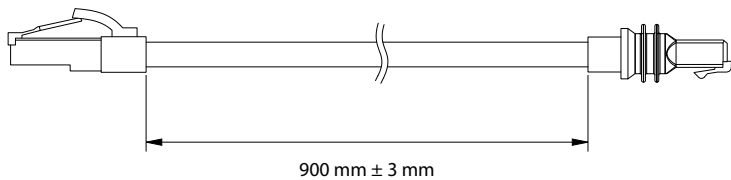
Cables



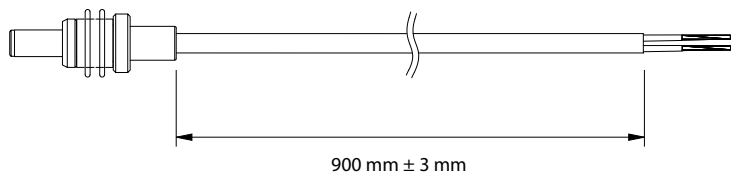
DC Cable



Ethernet Cable



Starlink Ethernet Cable

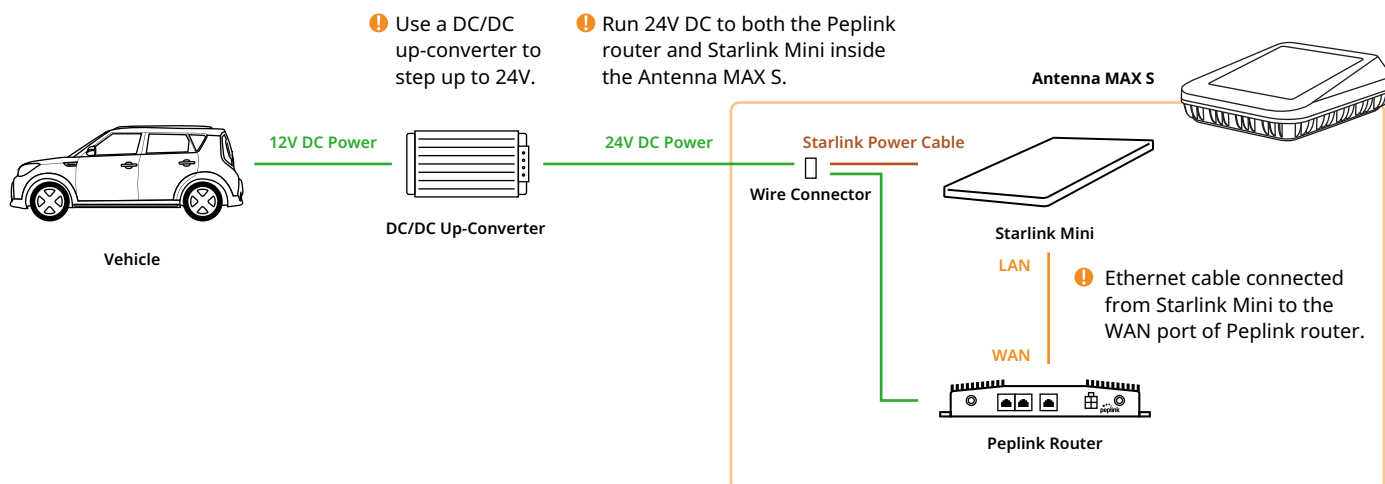


Starlink Power Cable

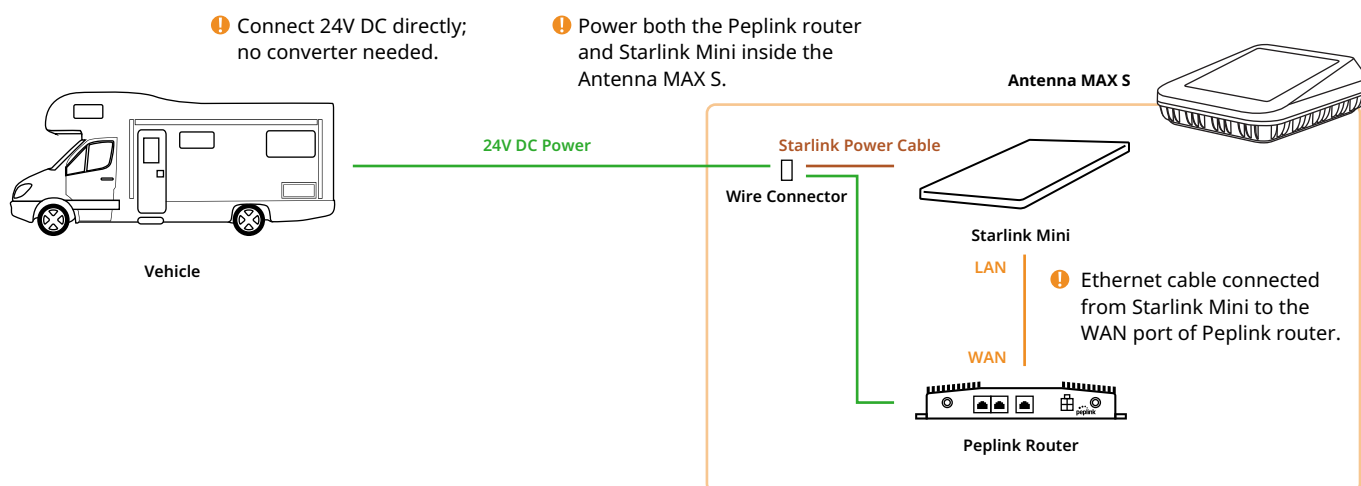
FAQ

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

