



Antenna MAX S

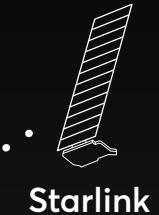
Rapid Deployment.
All-in-One. 5G + Starlink.

Integrated Antenna Enclosure for Peplink and Starlink

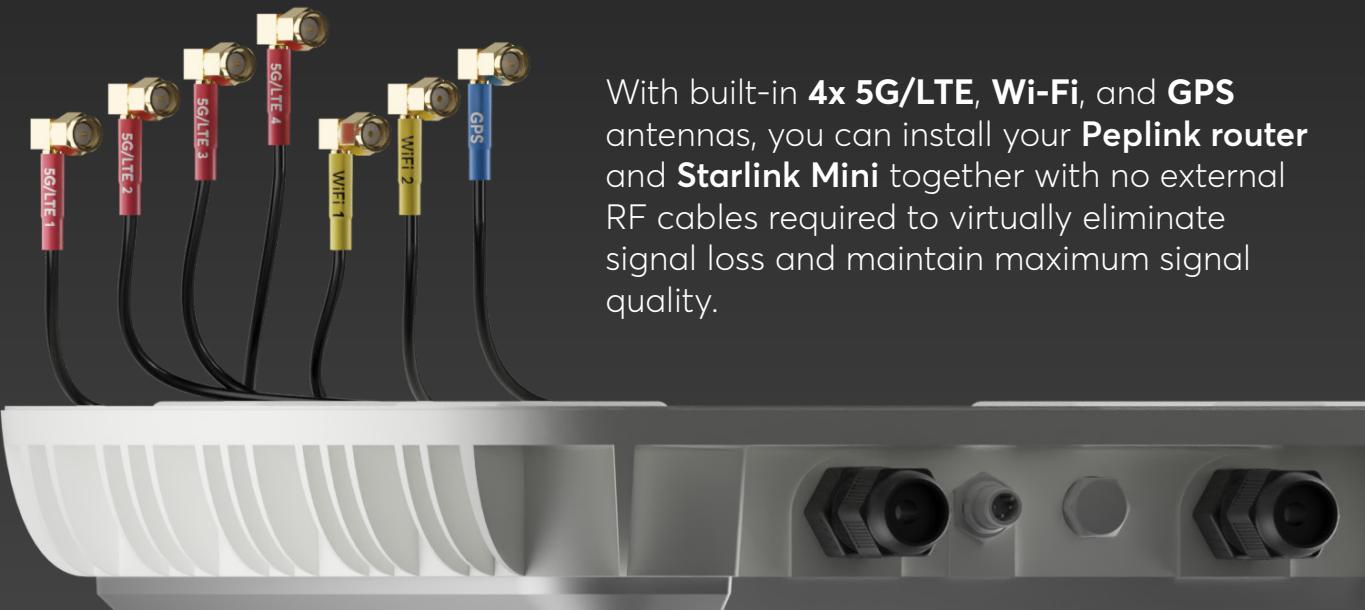
TAA
COMPLIANT

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**, **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.

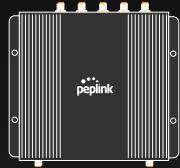
Use the top cover's watertight clasp system to conveniently secure the Peplink router of your choice:



BR1 Mini Series ¹



Transit Duo Pro

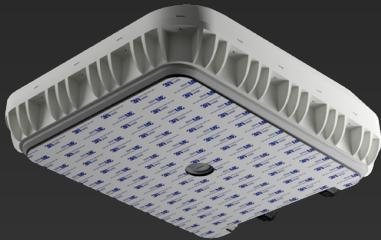


BR1 Pro Series ²

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

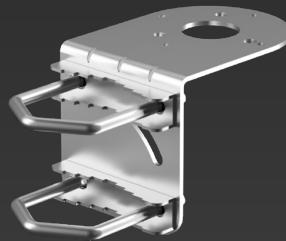
Mount it your way with a variety of installation options ideal for vehicles, rooftops, poles, or even custom rack systems.



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		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, Magnet, Vechicle roof racks or Custom mounts	Product Dimensions	17.6" / 448 mm - Length 14.5" / 368 mm - Width 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 L-Mount Set Power supply/splitter mounting set Router fixation screws 2pcs 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)	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 (1.47 mm)
Storage Temperature	-40° - 176°F / -40° - 80°C	UV resistance	UL 746C (F1 long-term UV exposure)
		Salt Spray	ASTM B117

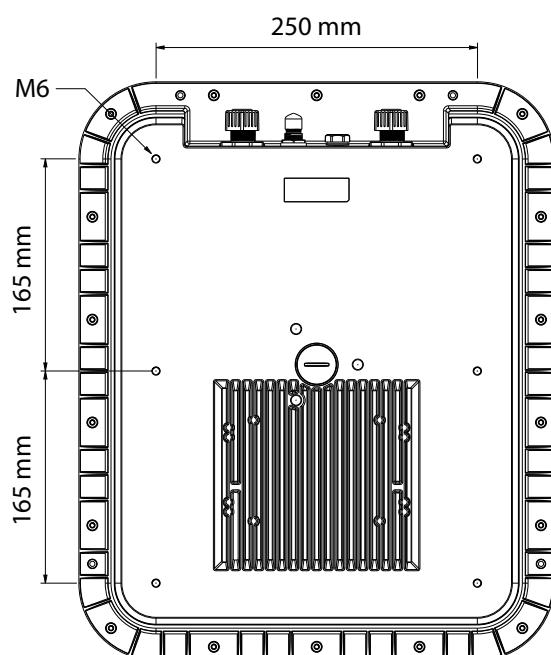
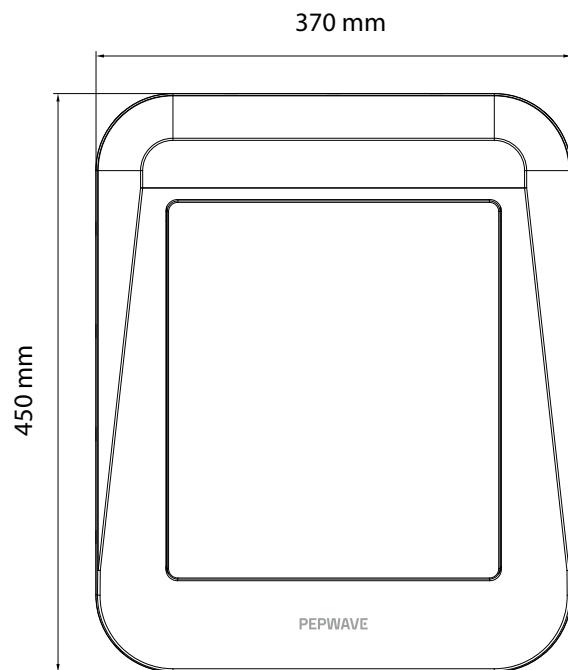
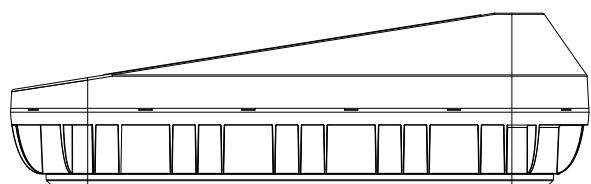
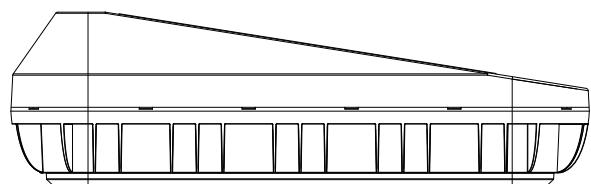
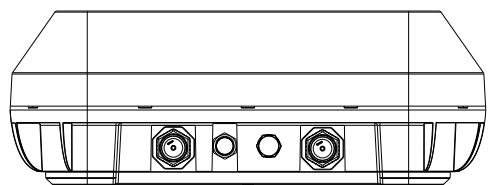
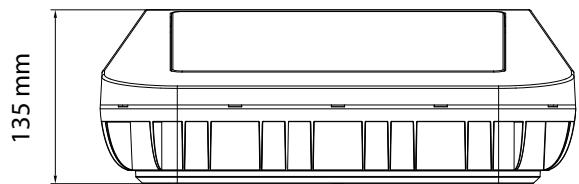
Ordering Information

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

Technical Drawing

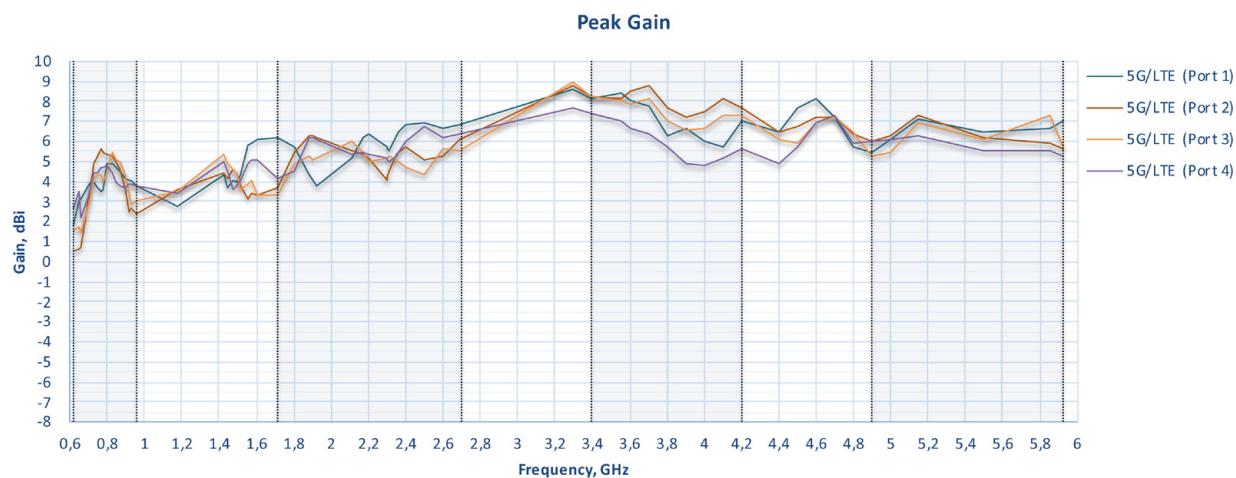


Cellular Antenna Performance

Cellular Antenna VSWR



Cellular Antenna Gain



Cellular Antenna Efficiency

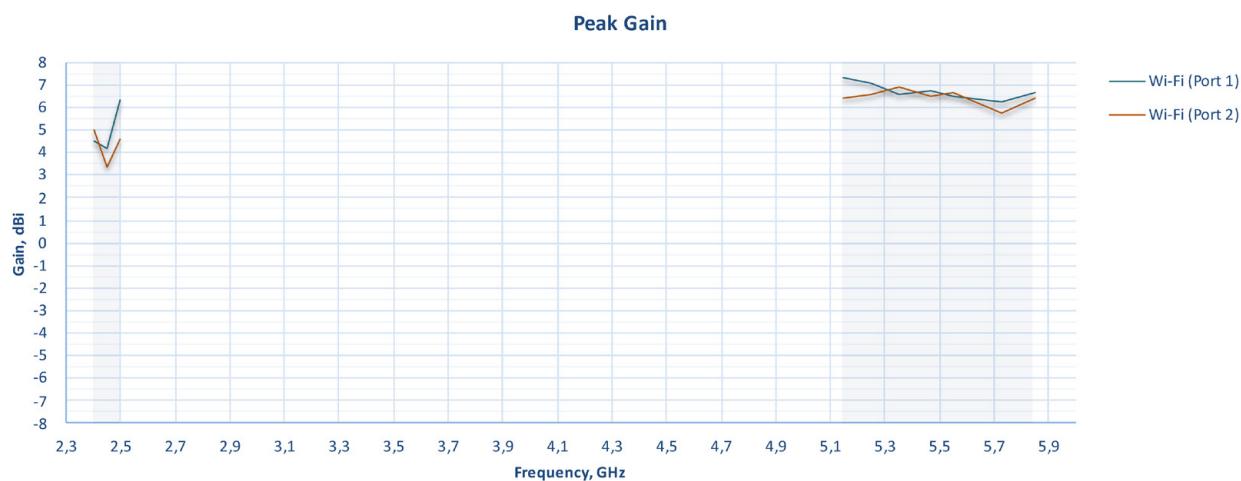


Wi-Fi Antenna Performance

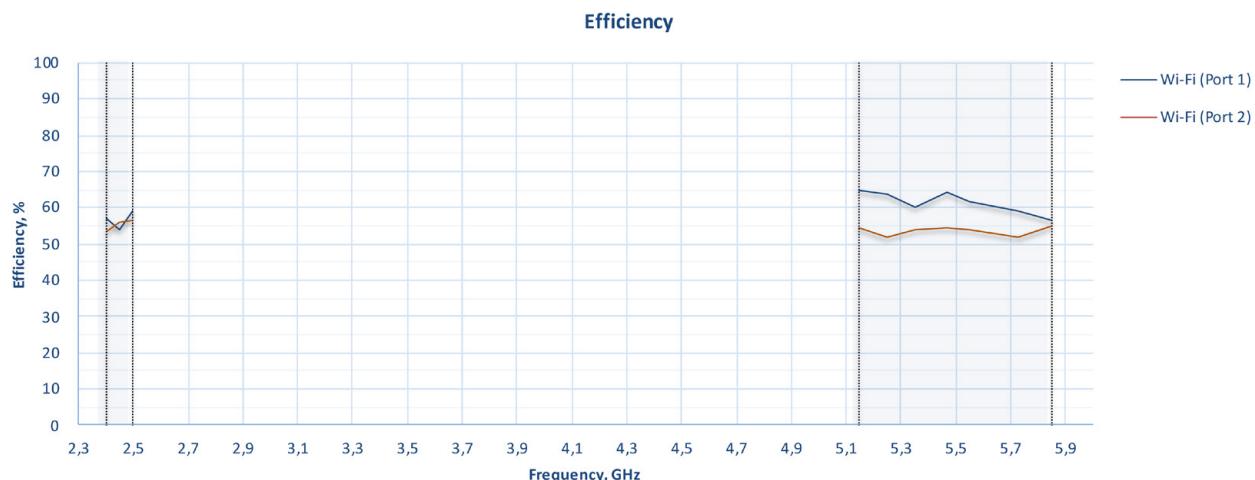
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain



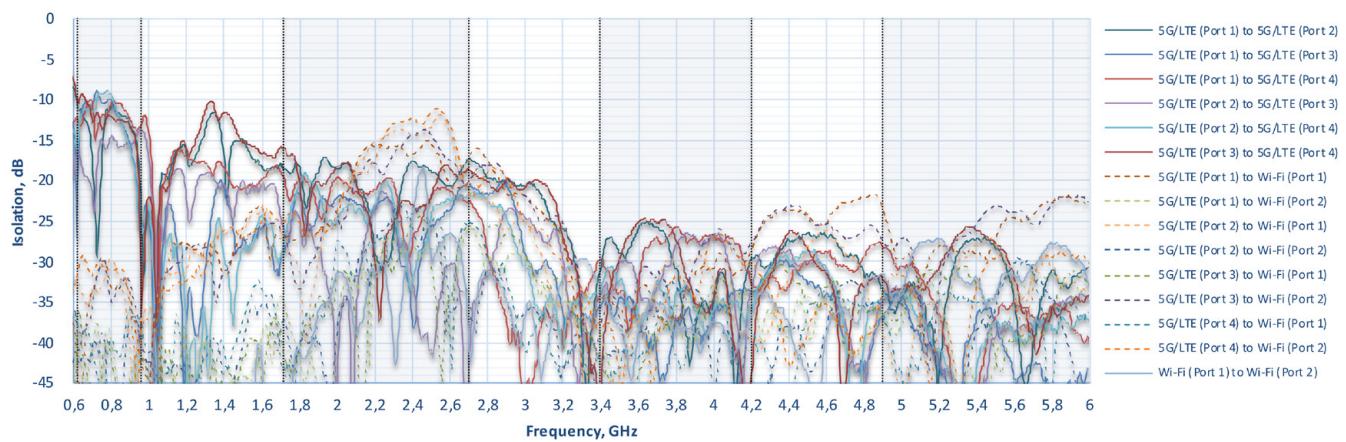
Wi-Fi Antenna Efficiency



Cellular & Wi-Fi Antenna Performance

Cellular & Wi-Fi Antenna Isolation

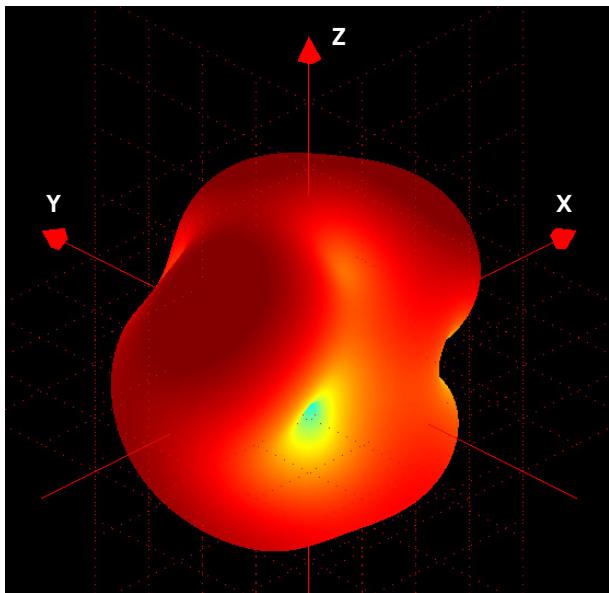
LTE/5G and Wi-Fi antenna elements isolation



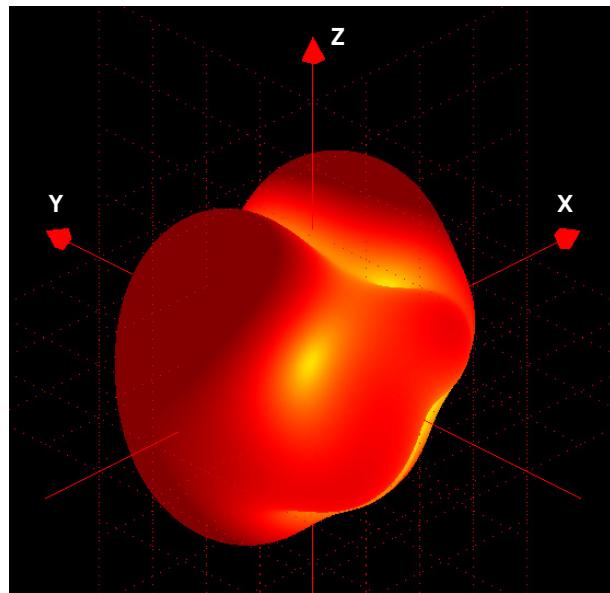
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

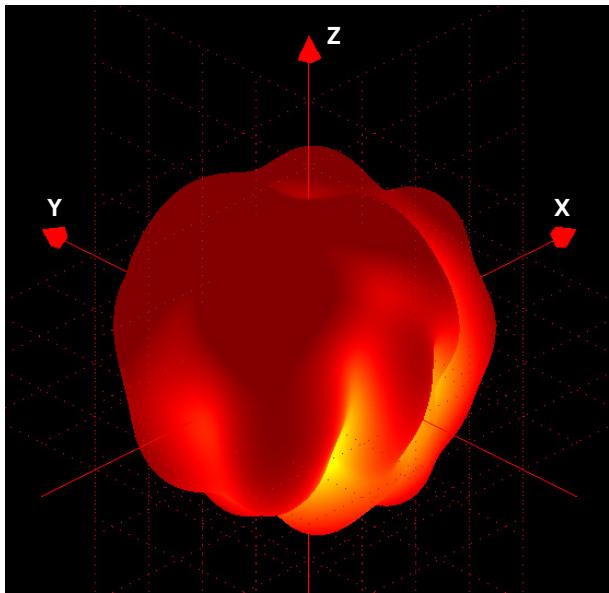
617 MHz



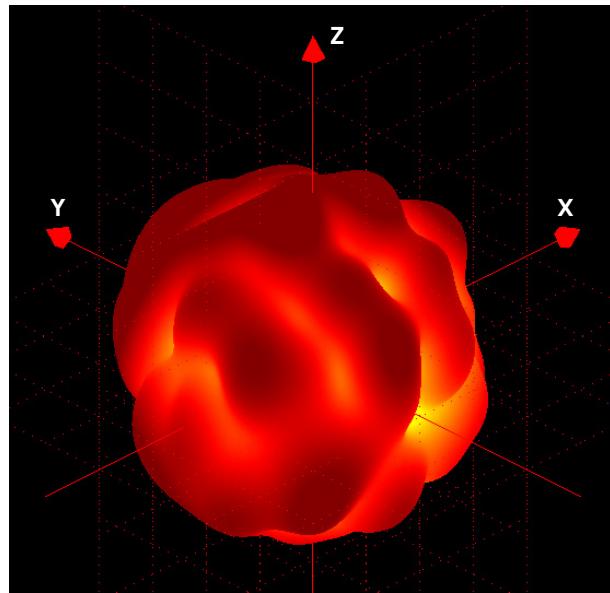
798 MHz



1496 MHz



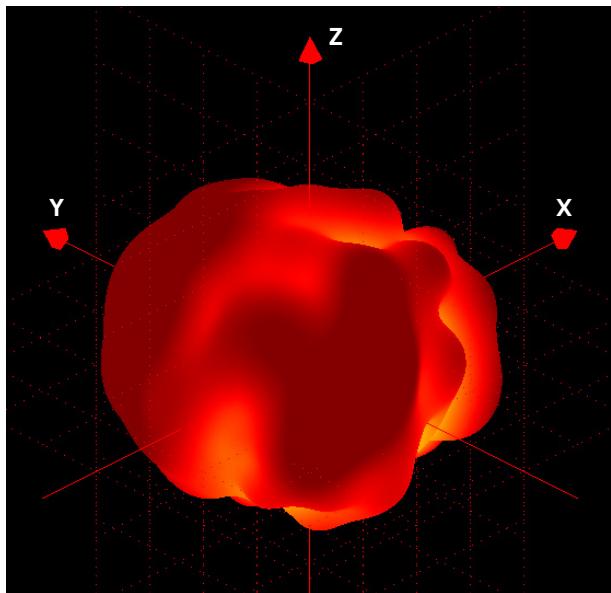
1805 MHz



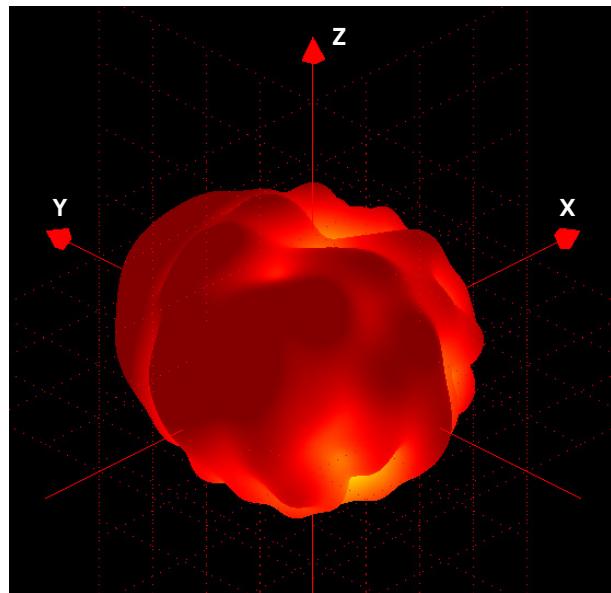
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

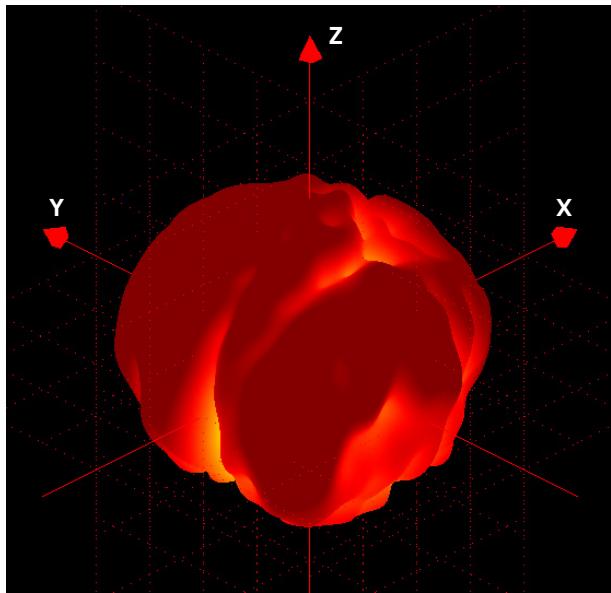
2110 MHz



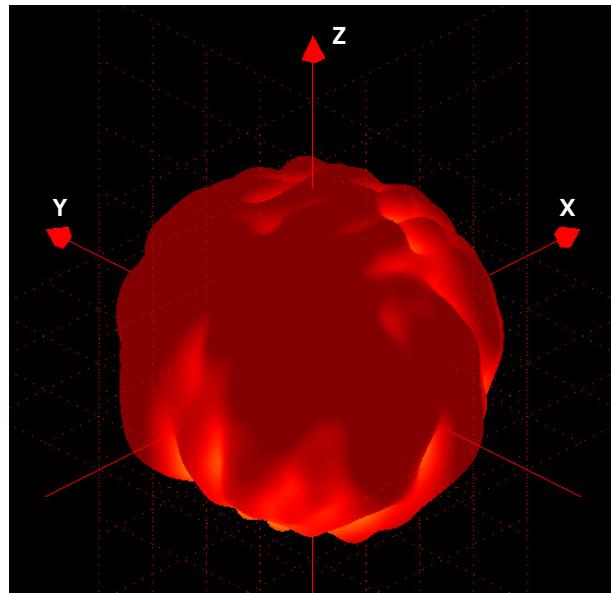
2400 MHz



3550 MHz

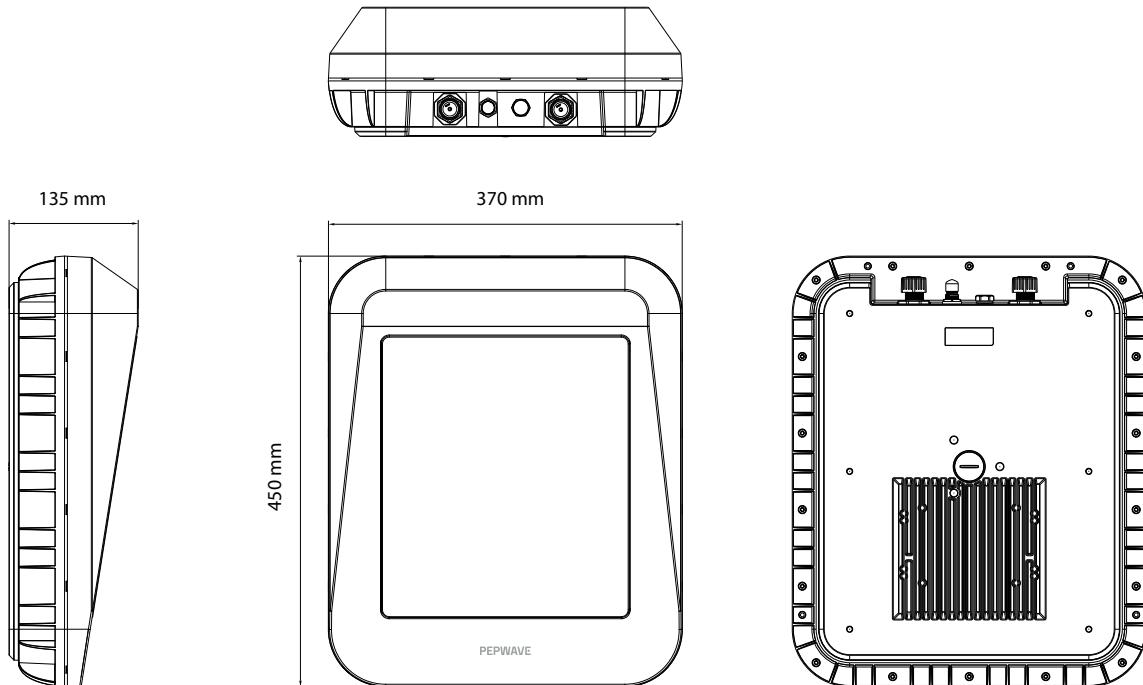


3800 MHz



Packing List Information

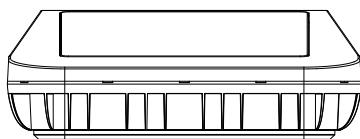
Antenna



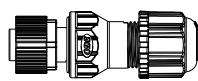
L-wrench
(T20 M4*8)



M25 hole plug
(1 pcs)



RJ45 Caps
(2 pcs)



DC Cable Connector
(1 pcs)



Bolt
Cover
(28 pcs, T20 M4xL8)



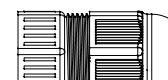
Bolt
PoE
(4 pcs, T20 M4xL8)



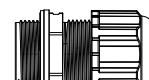
M4 Spring Washer
(4 pcs)



M4 HEX Standoff Screw
(4 pcs)

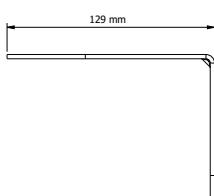


RJ45 Gland
(2 pcs)

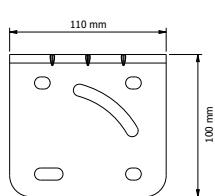


M25 Cable Gland
(2 pcs)

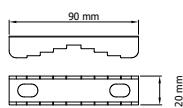
L-Mount Mount Set



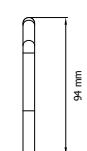
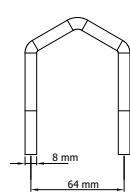
L-Mount



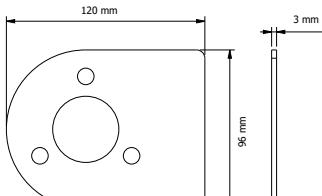
V-bolt nut
(4 pcs, M8)



Bracket
(2 pcs)



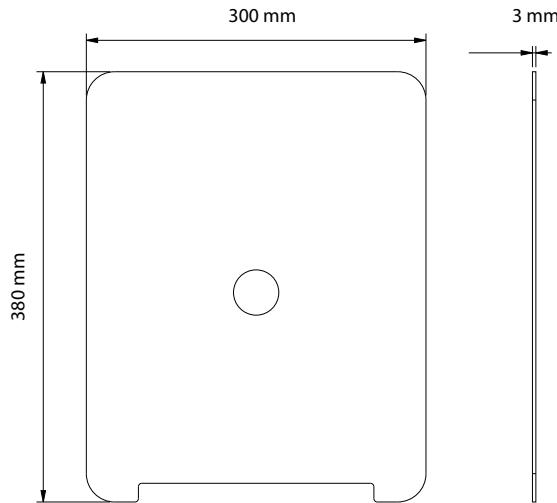
V-bolt
(2 pcs)



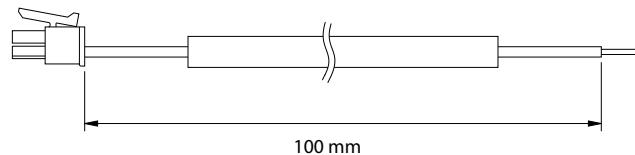
Rubber Pad
(1 pcs)

Packing List Information

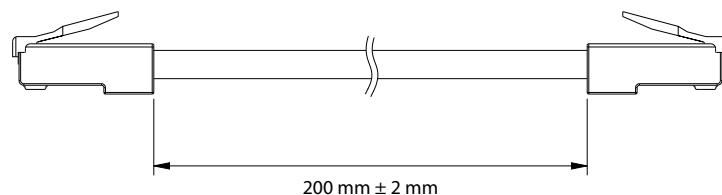
Adhesive Pad



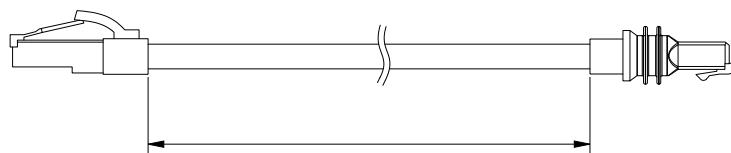
Cables



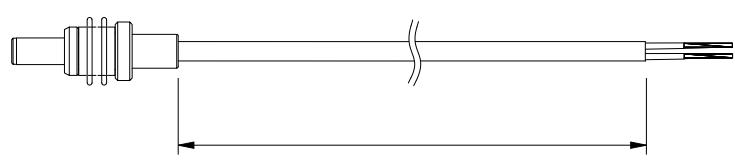
DC Cable



Ethernet Cable



Starlink Ethernet cable

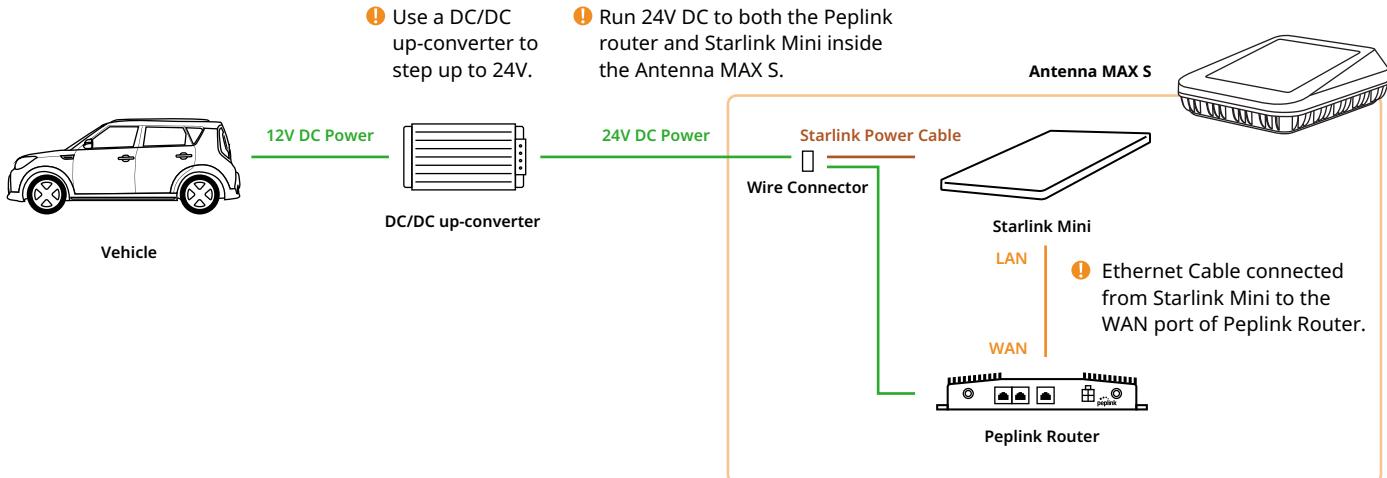


Starlink power cable

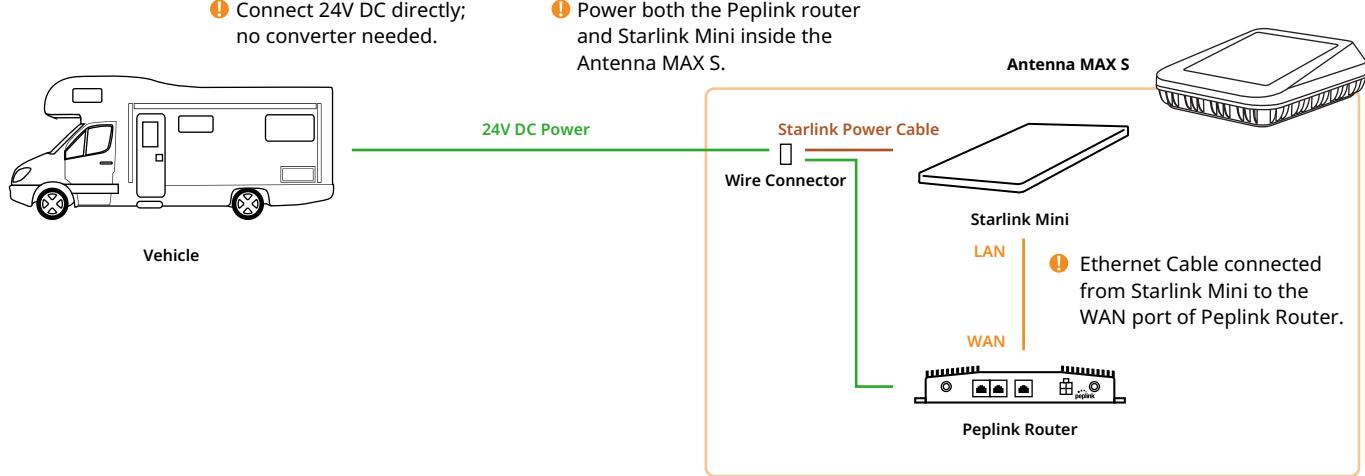
FAQ

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

12V Vechicle Battery



24V Vechicle 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.



Power + Data

⚠ 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.

