

PEPWAVE



peplink x STARLINK

Antenna MAX S

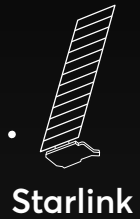
Maximum Synergy

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

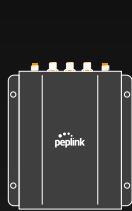
The Antenna MAX S is engineered for outdoor longevity, built with UV- and salt-resistant plastics, fitted with a metal base for heat dissipation, designed to withstand high wind loads for fixed or mobile applications.



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.

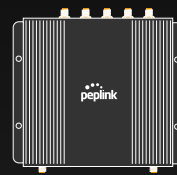
Use the top cover's watertight clasp system to conveniently secure the Peplink router of your choice:



BR1 Mini Series ¹



Transit Duo Pro

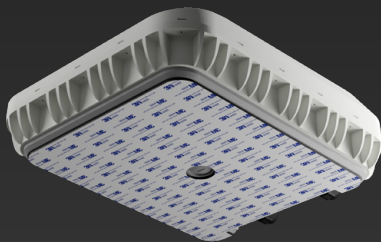


BR1 Pro Series ²

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

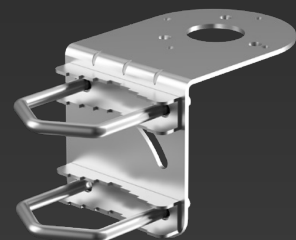
Mount it your way with a variety of installation options ideal for vehicles, rooftops, poles, or even custom rack systems.



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		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 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)	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	Wind survivability	TBD
Storage Temperature	-40° - 176°F / -40° - 80°C	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

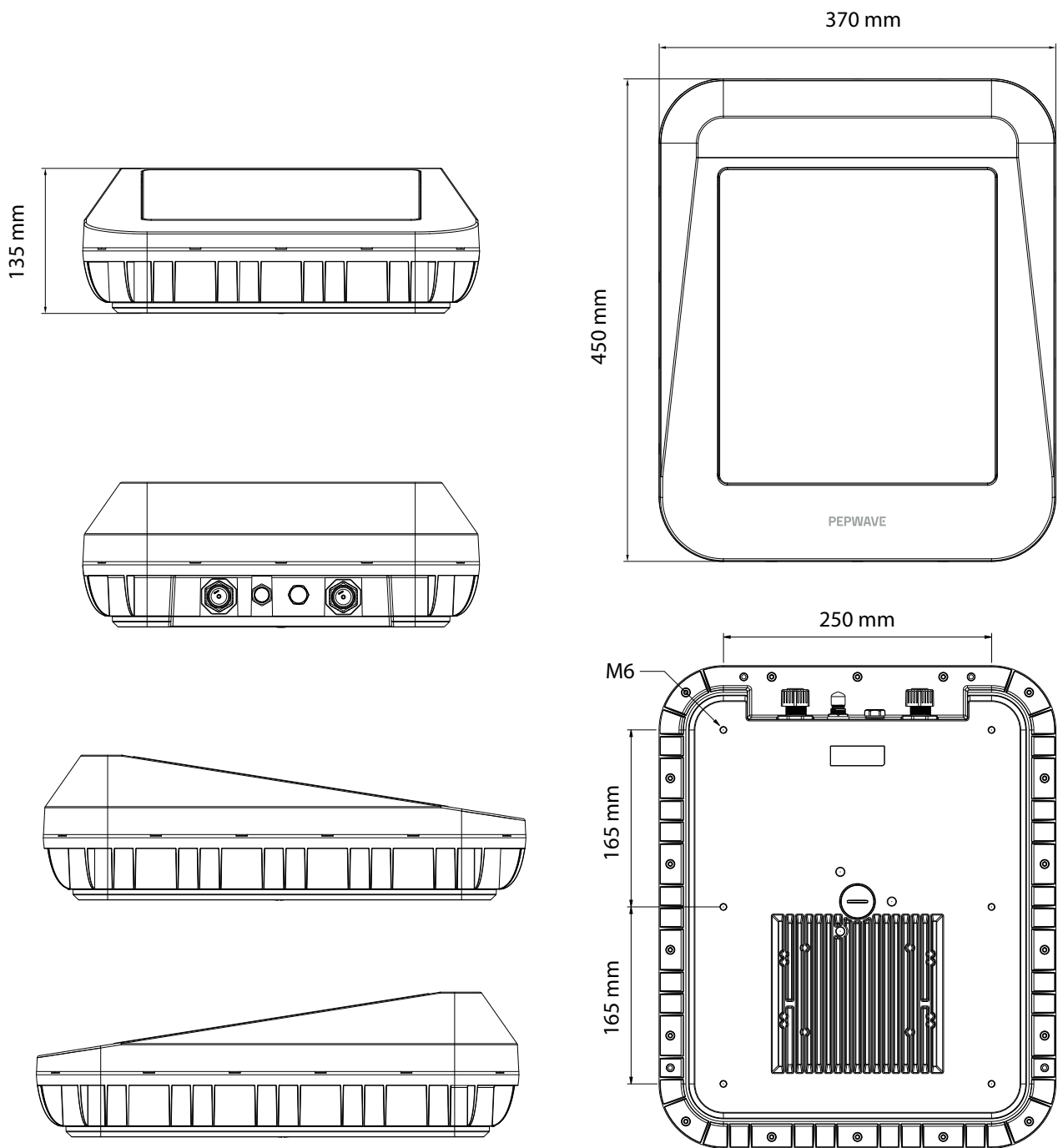
Ordering Information

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.

Featured Add-on

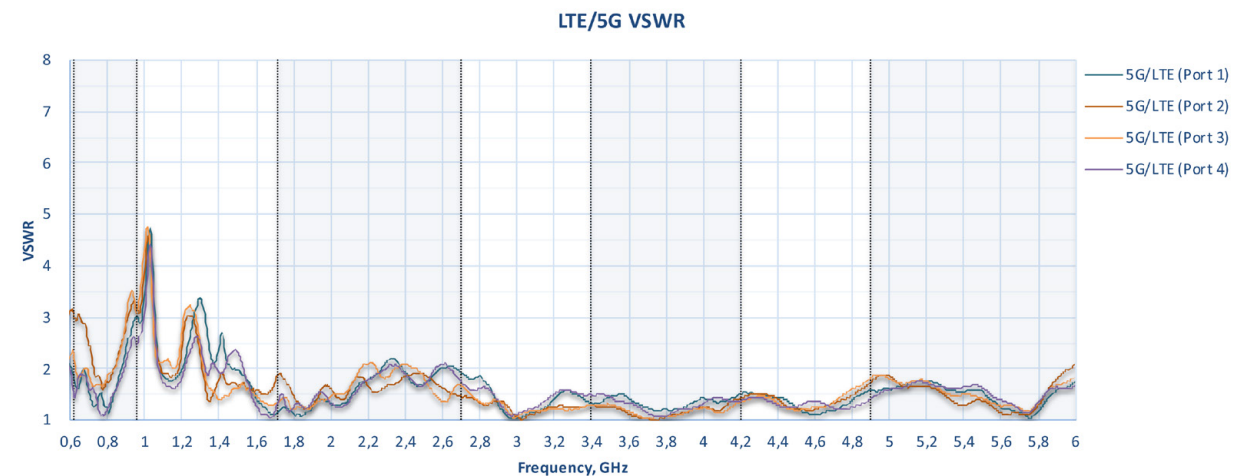
Product Code	Description
ACW-651	1" 14 TPI female to Mobility thread for deck mount
ACW-653A	1 1/4" 11 TPI male adapter for deck mount

Technical Drawing

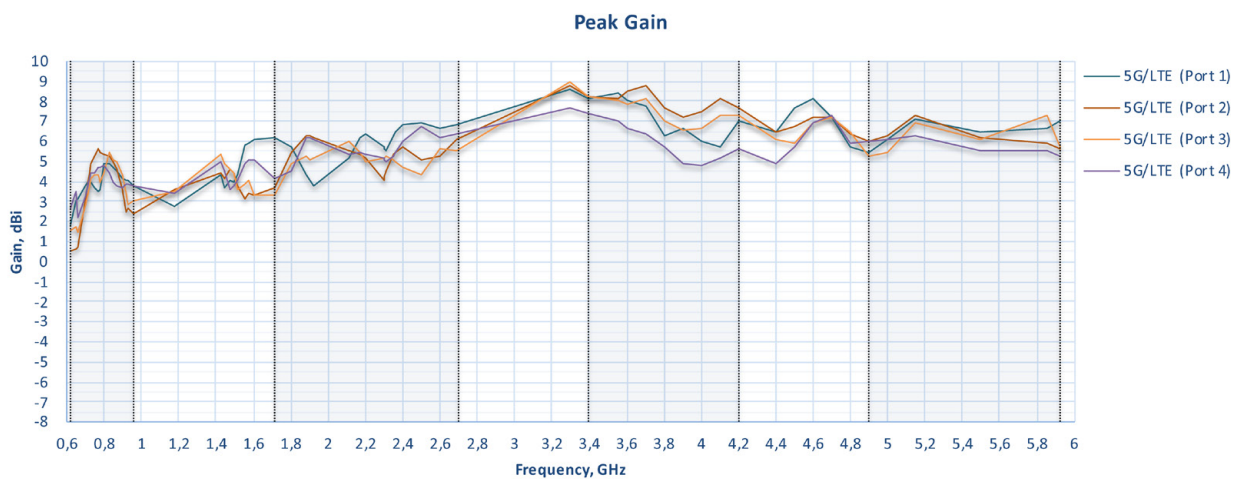


Cellular Antenna Performance

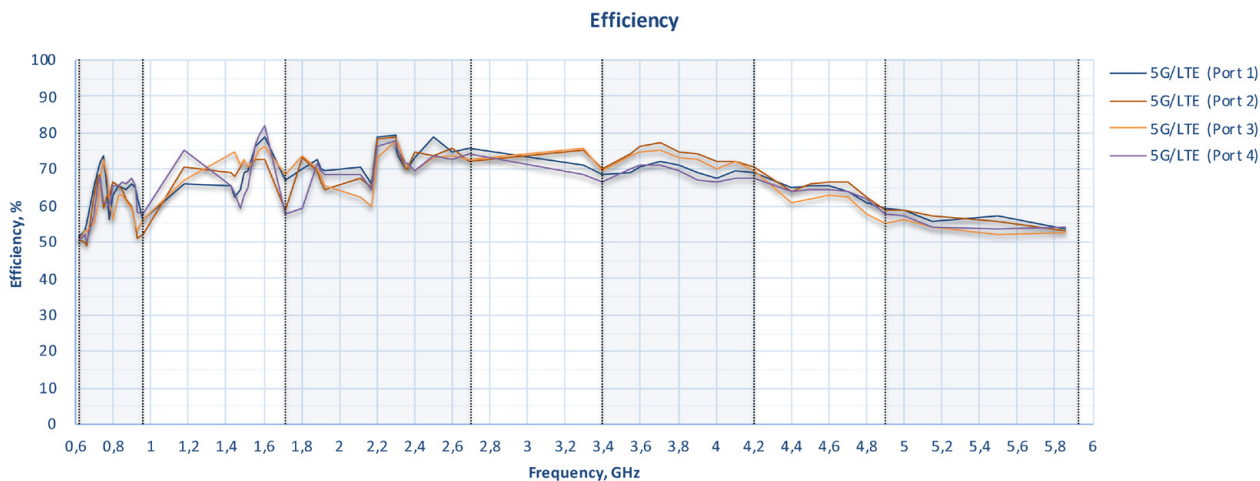
Cellular Antenna VSWR



Cellular Antenna Gain



Cellular Antenna Efficiency

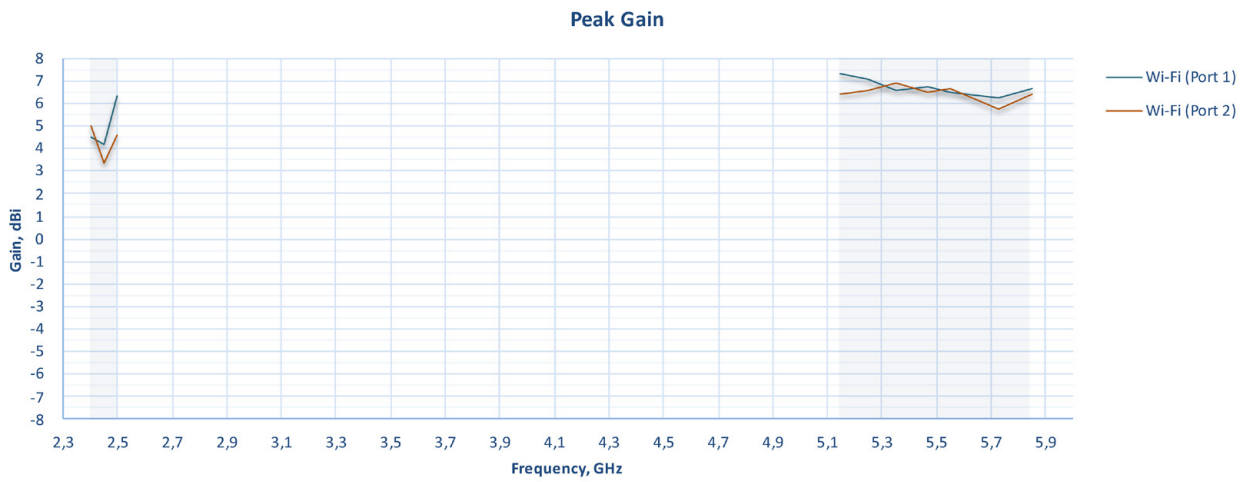


Wi-Fi Antenna Performance

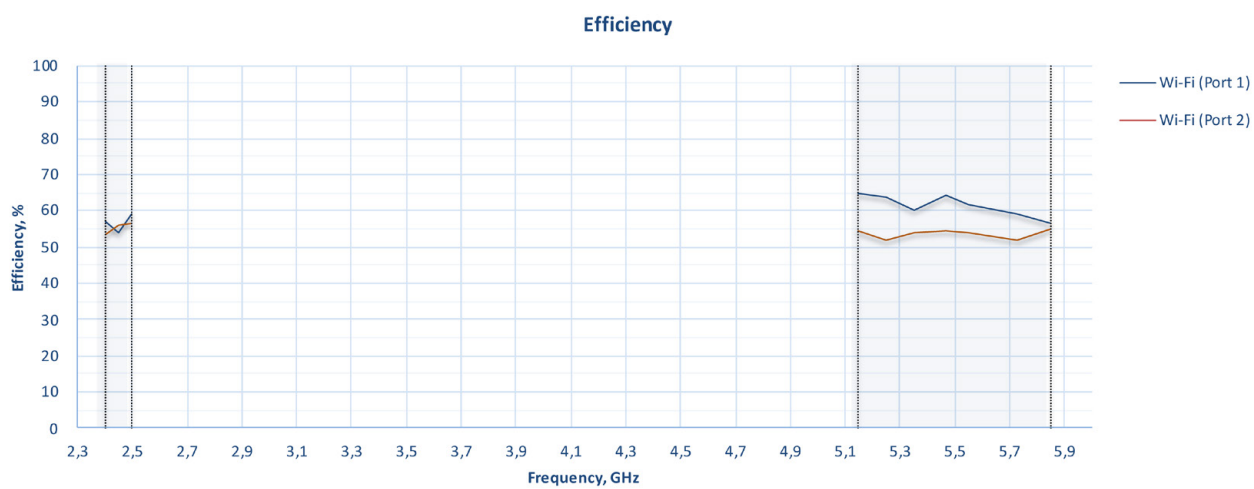
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain

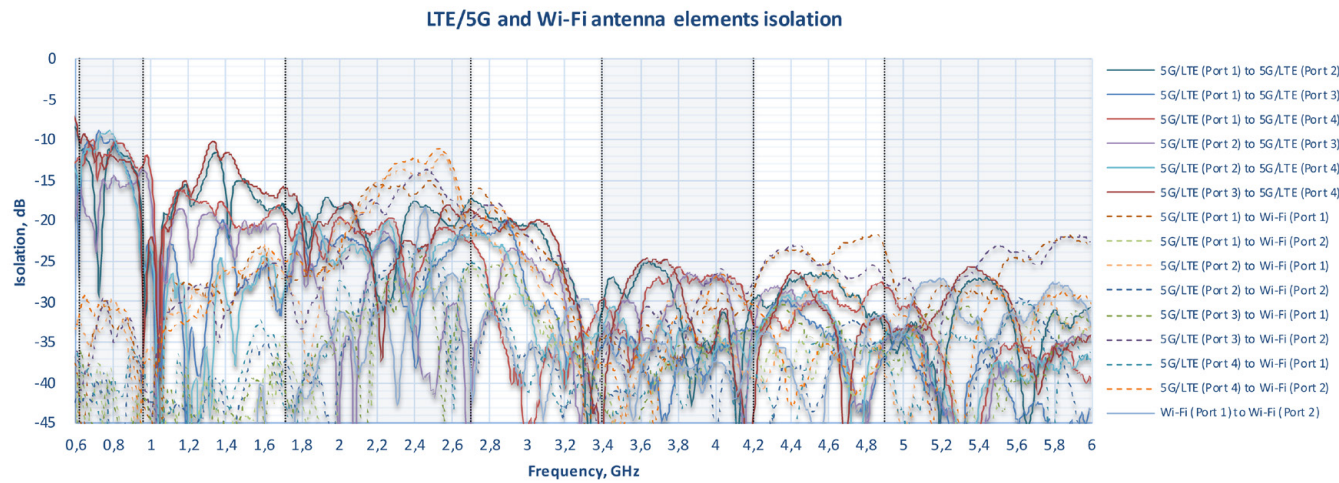


Wi-Fi Antenna Efficiency



Cellular & Wi-Fi Antenna Performance

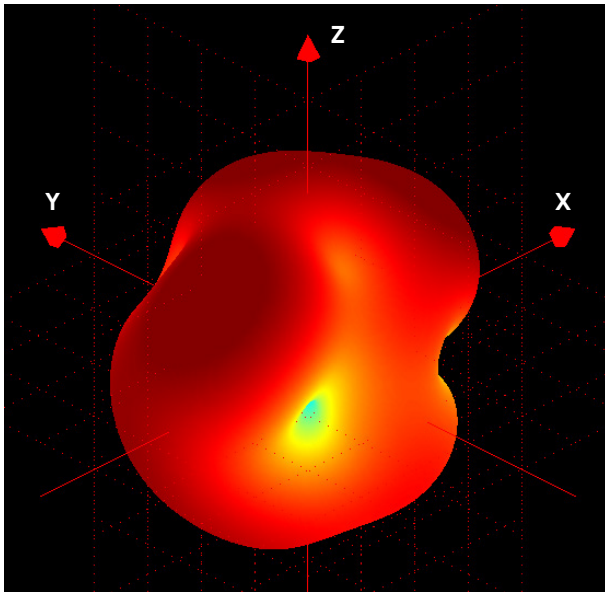
Cellular & Wi-Fi Antenna Isolation



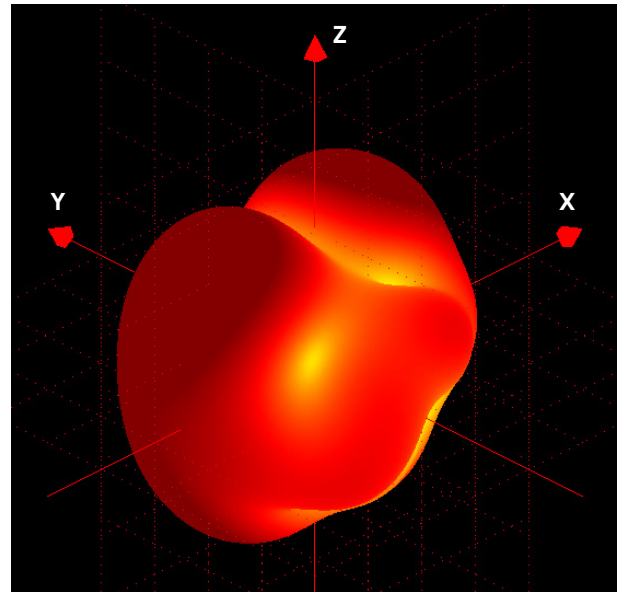
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

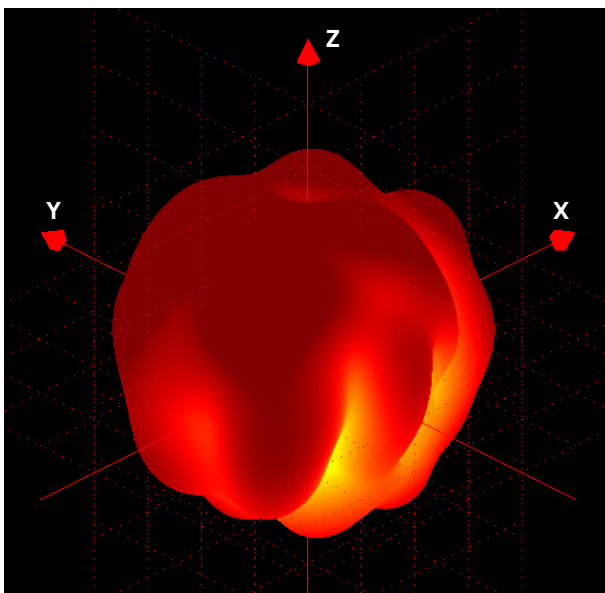
617 MHz



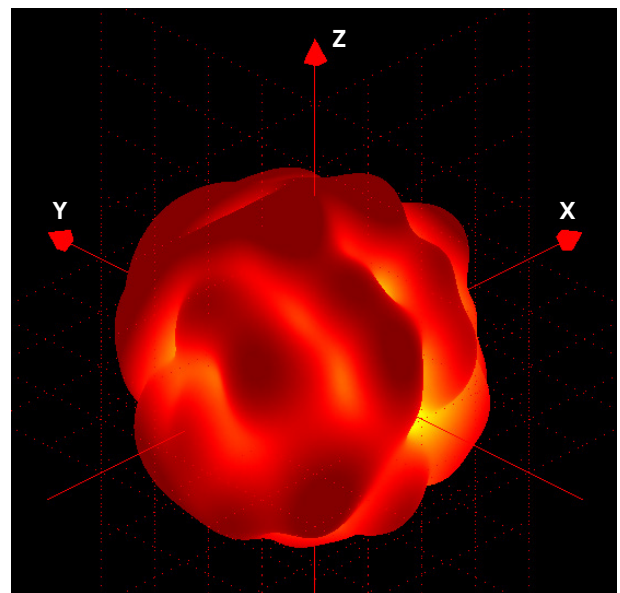
798 MHz



1496 MHz



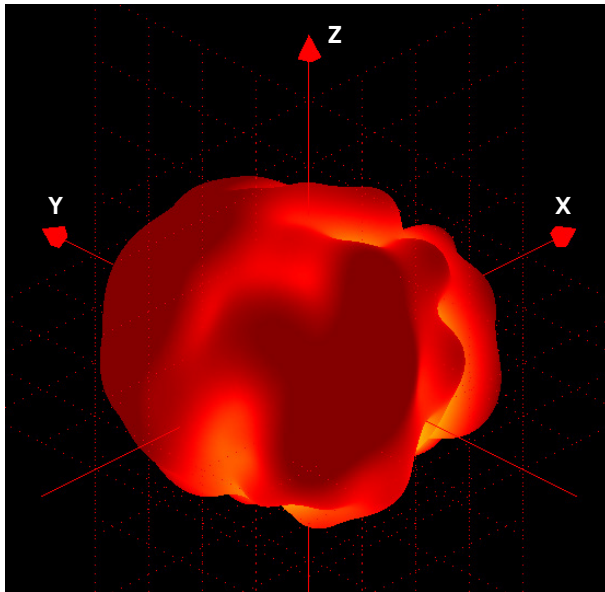
1805 MHz



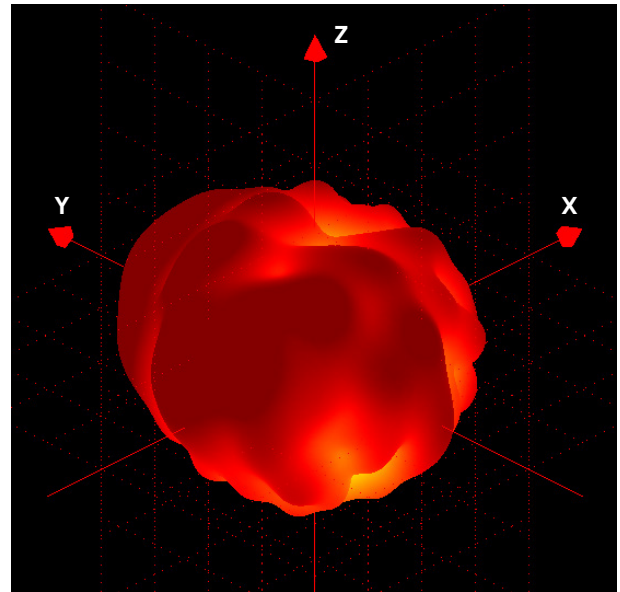
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

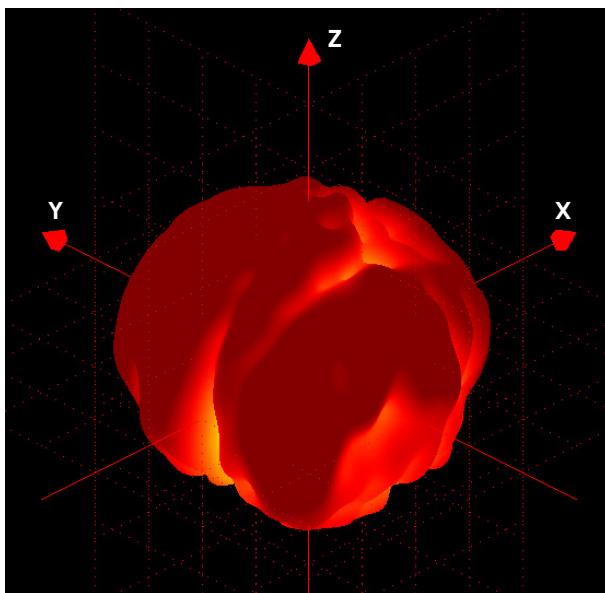
2110 MHz



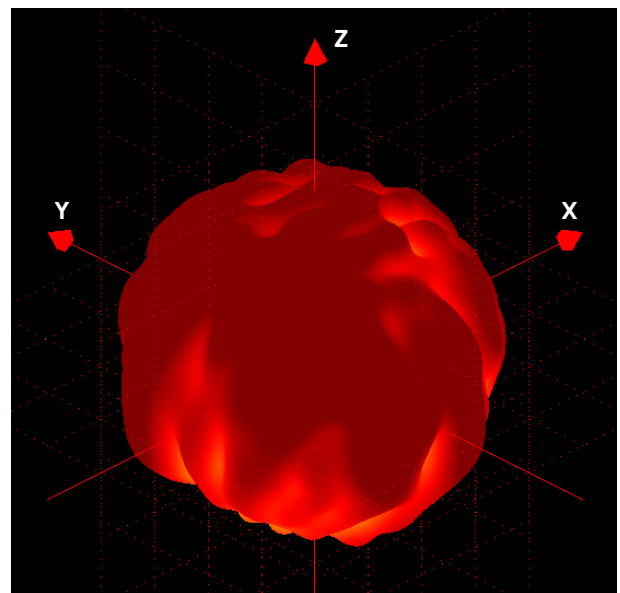
2400 MHz



3550 MHz

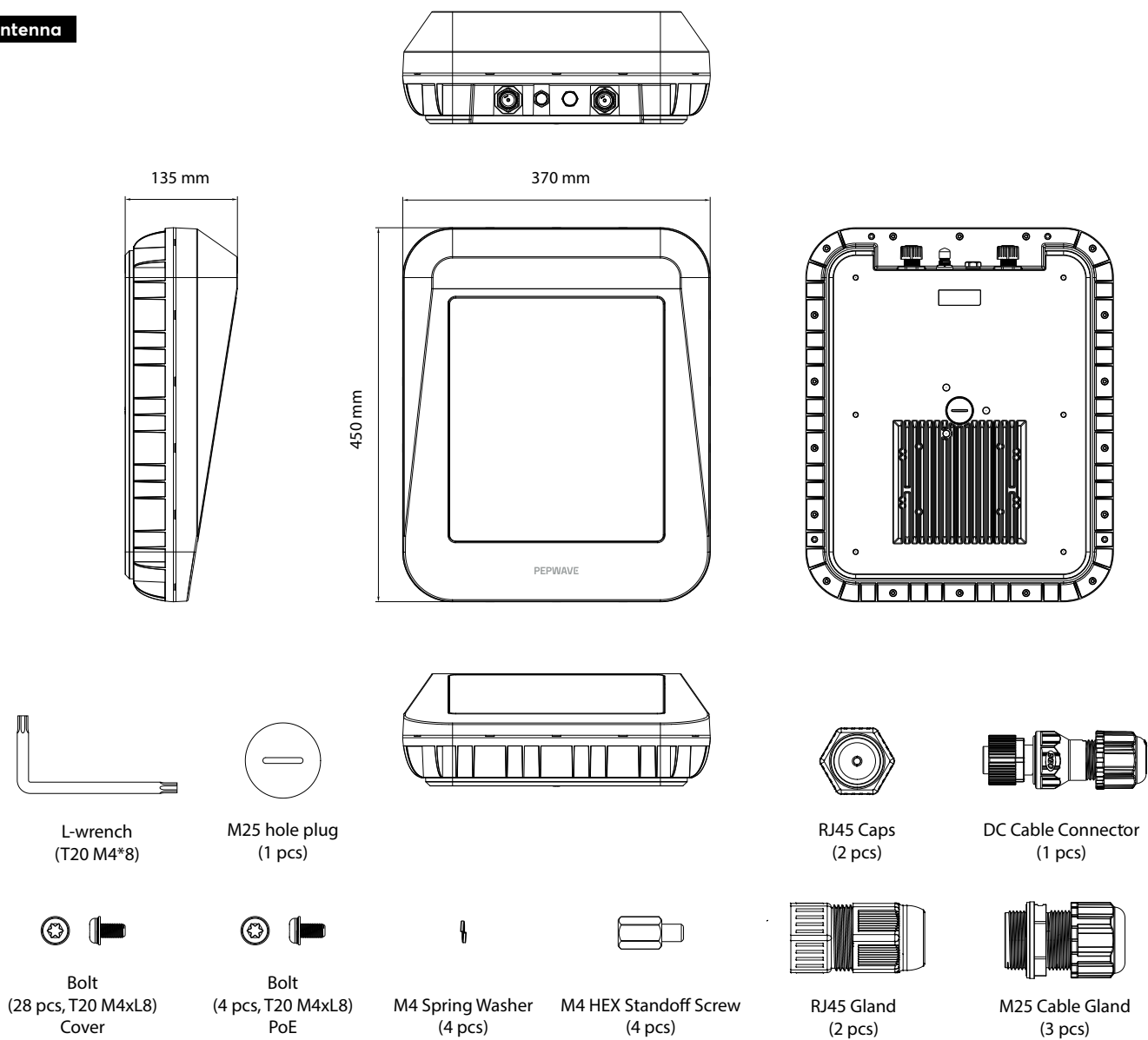


3800 MHz

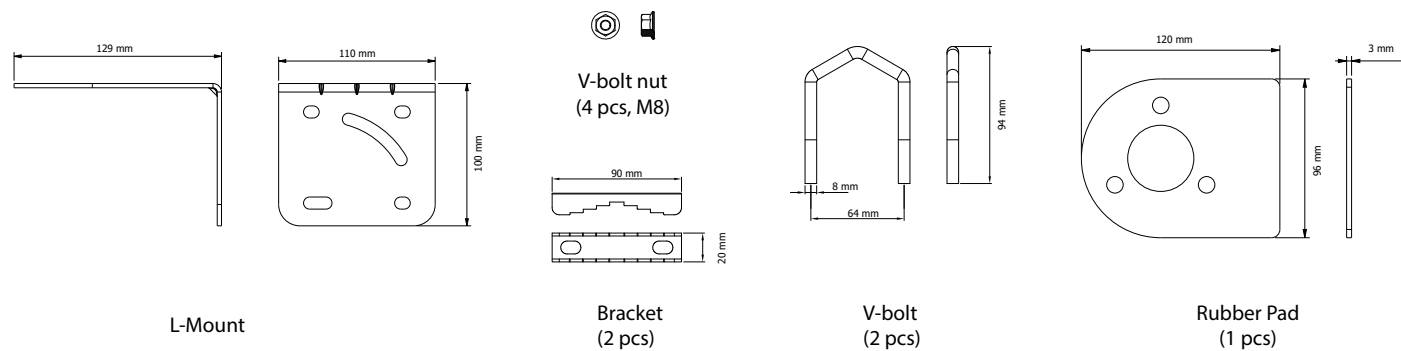


Packing List Information

Antenna

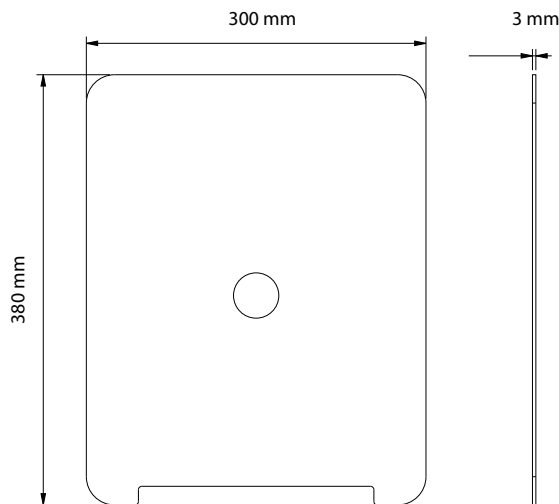


L-Mount Mount Set

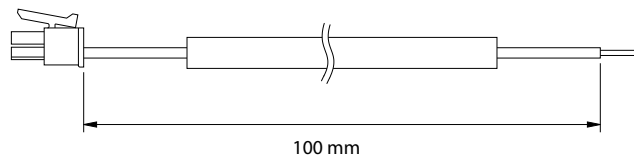


Packing List Information

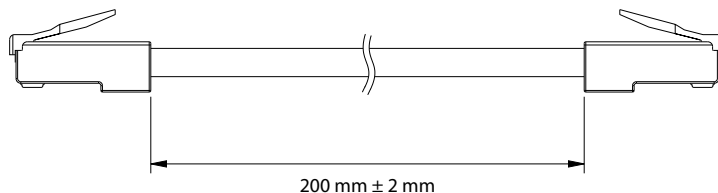
Adhesive Pad



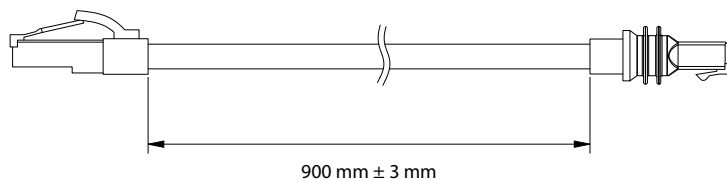
Cables



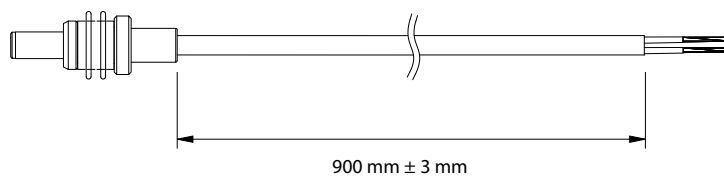
DC Cable



Ethernet Cable



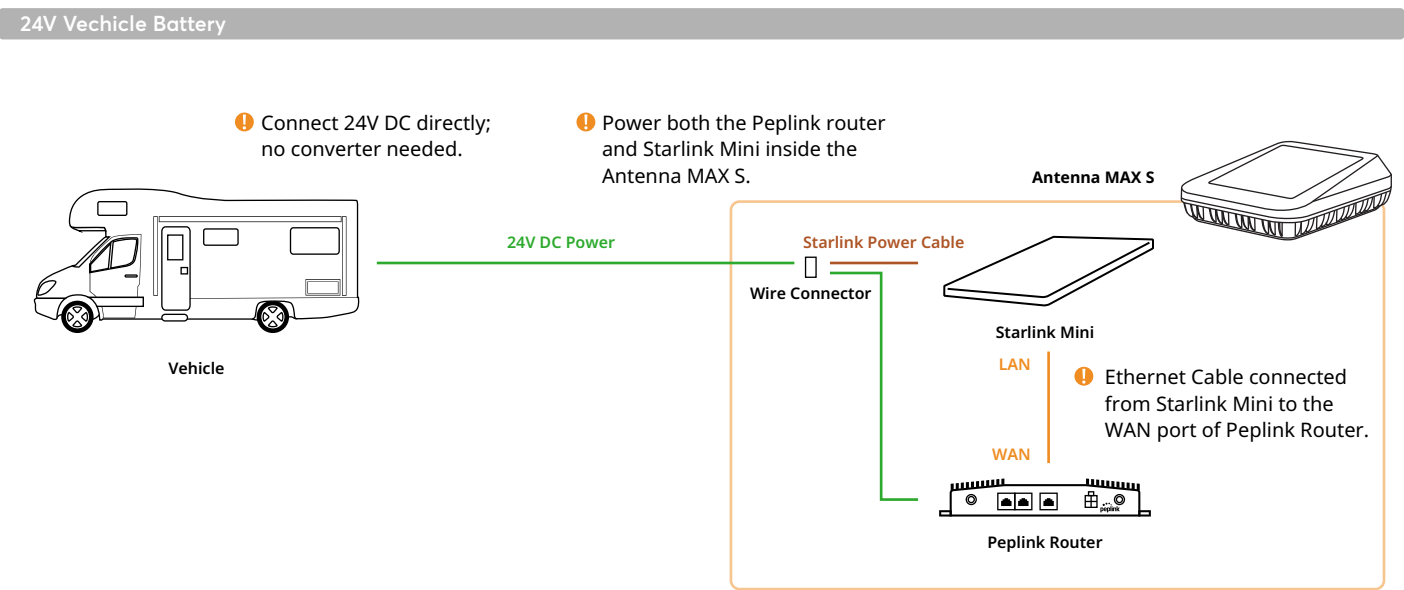
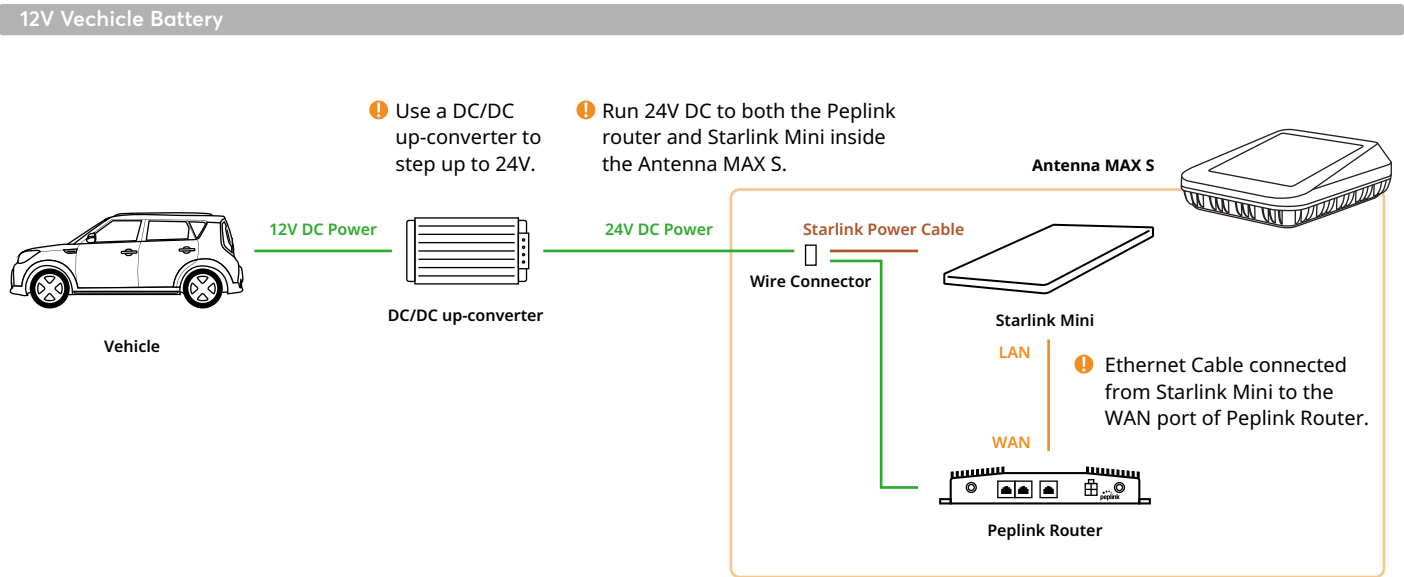
Starlink Ethernet cable



Starlink power cable

FAQ

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



FAQ

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

802.3bt 90W PoE

