



Specification

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

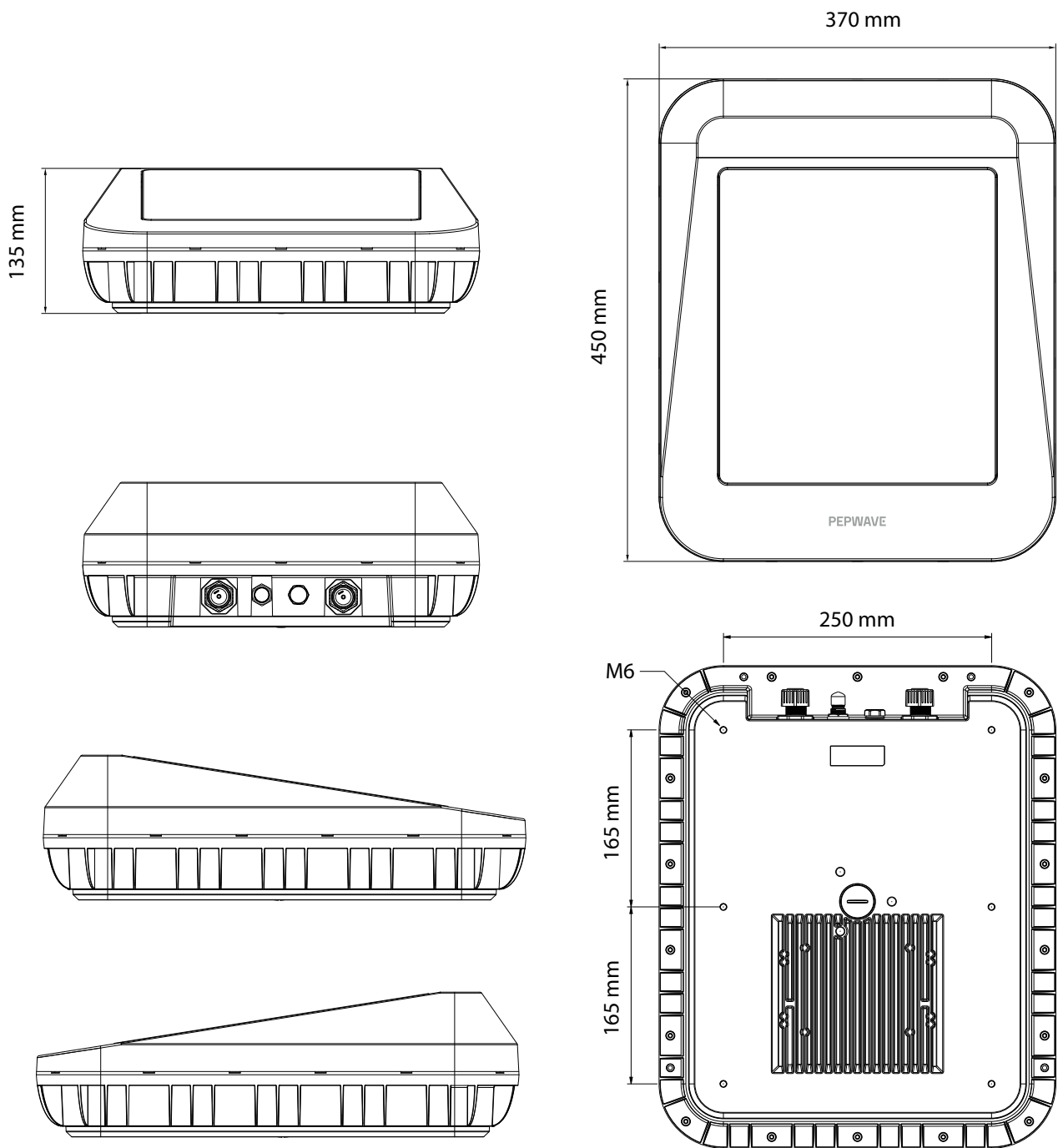
Specification

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

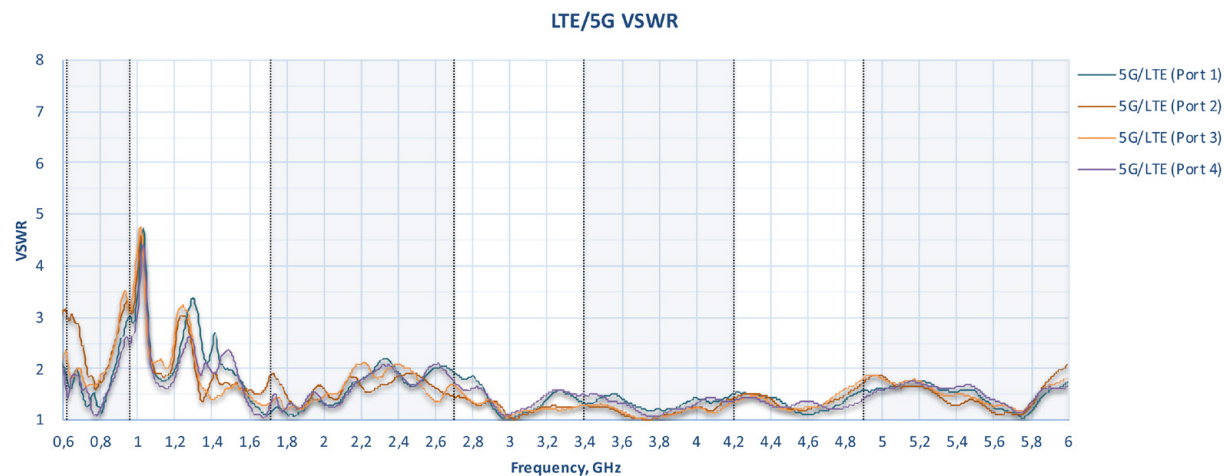
Product Code	Description
ANT-MAX-S	Enclosure with integrated 4x 5G/LTE, 2x Wi-Fi, GPS antennas for Peplink routers and Starlink Mini bundle solution.

Technical Drawing

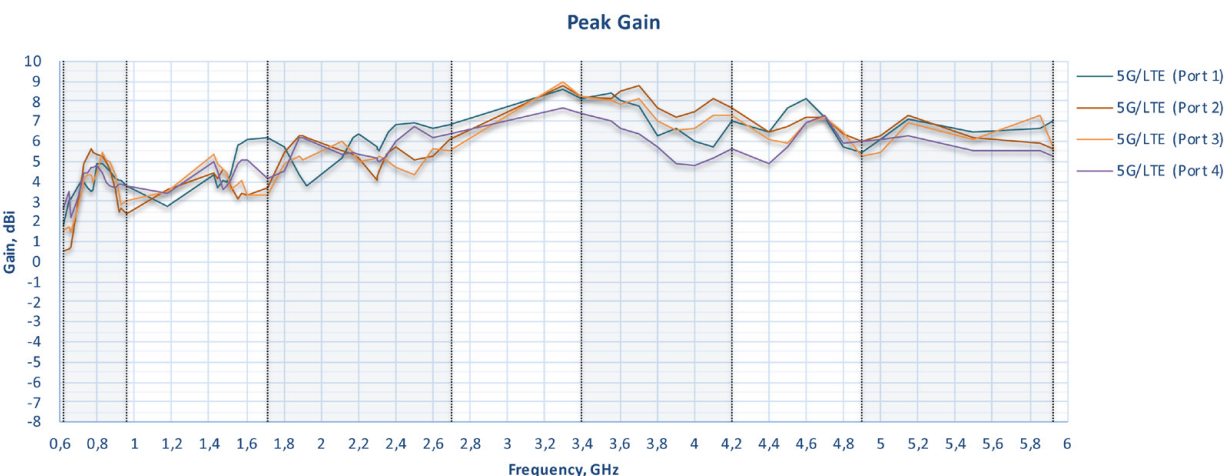


Cellular Antenna Performance

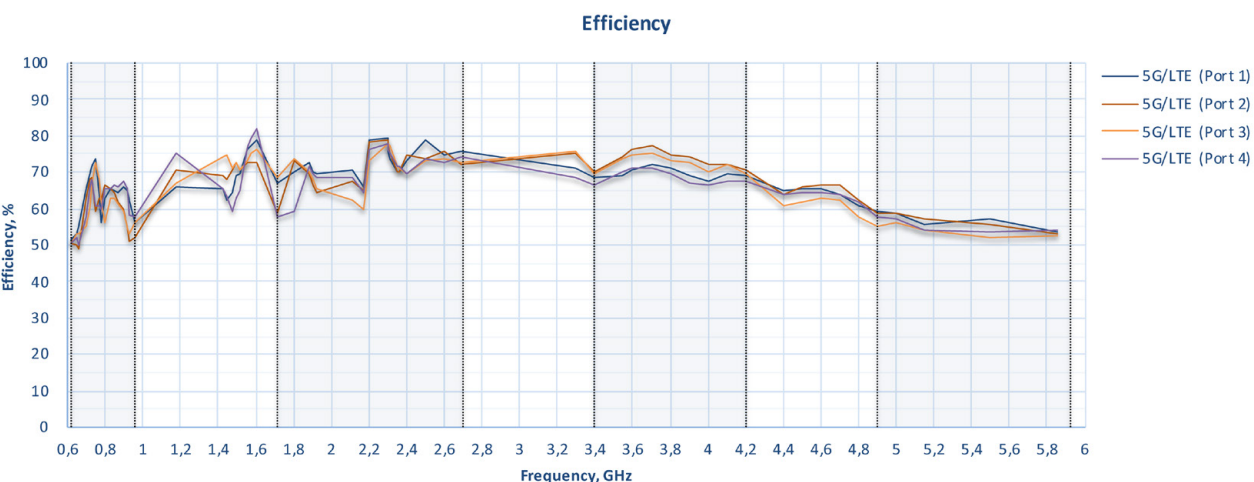
Cellular Antenna VSWR



Cellular Antenna Gain



Cellular Antenna Efficiency

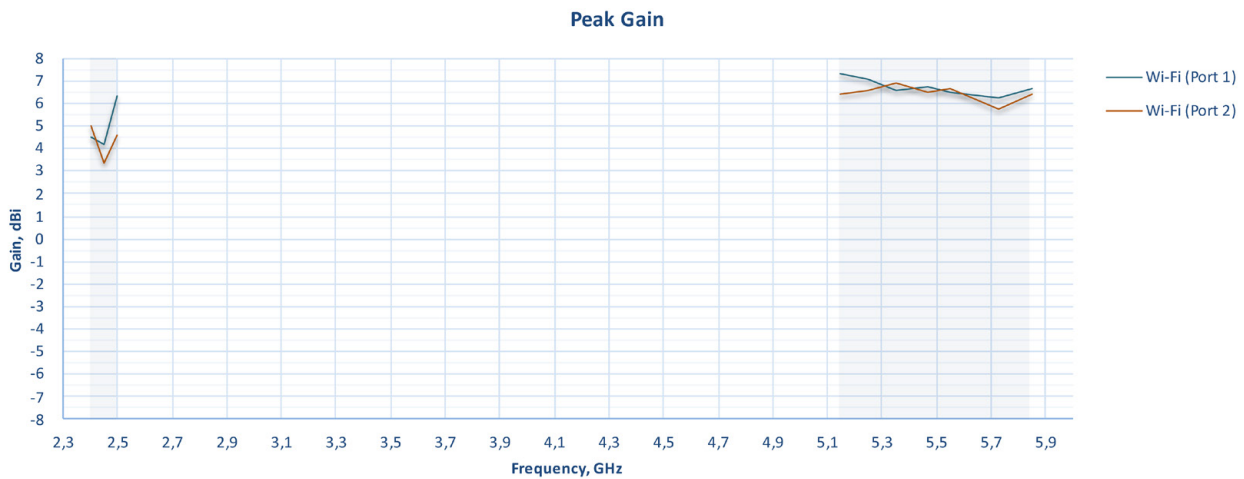


Wi-Fi Antenna Performance

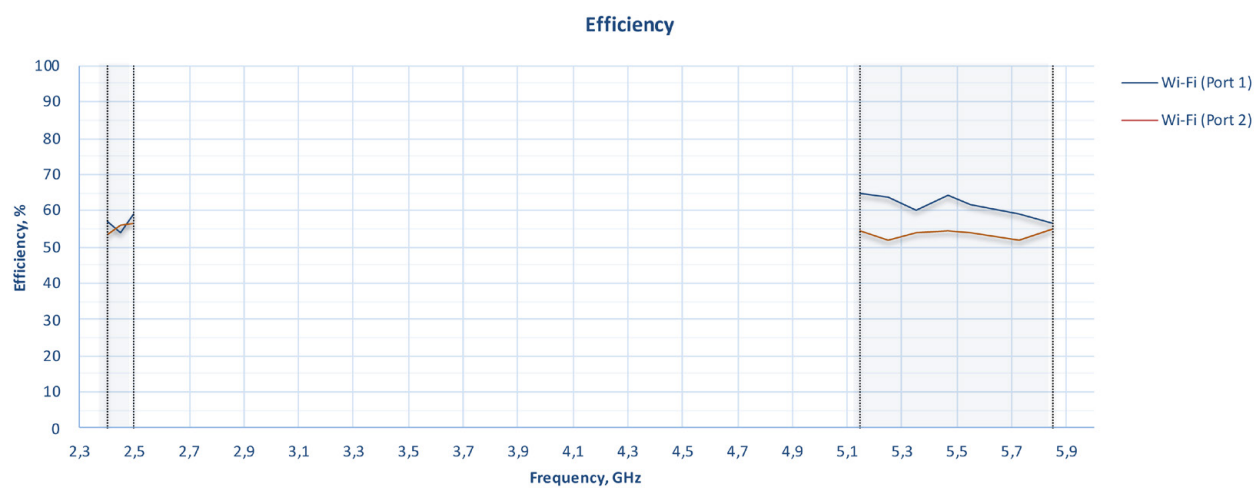
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain

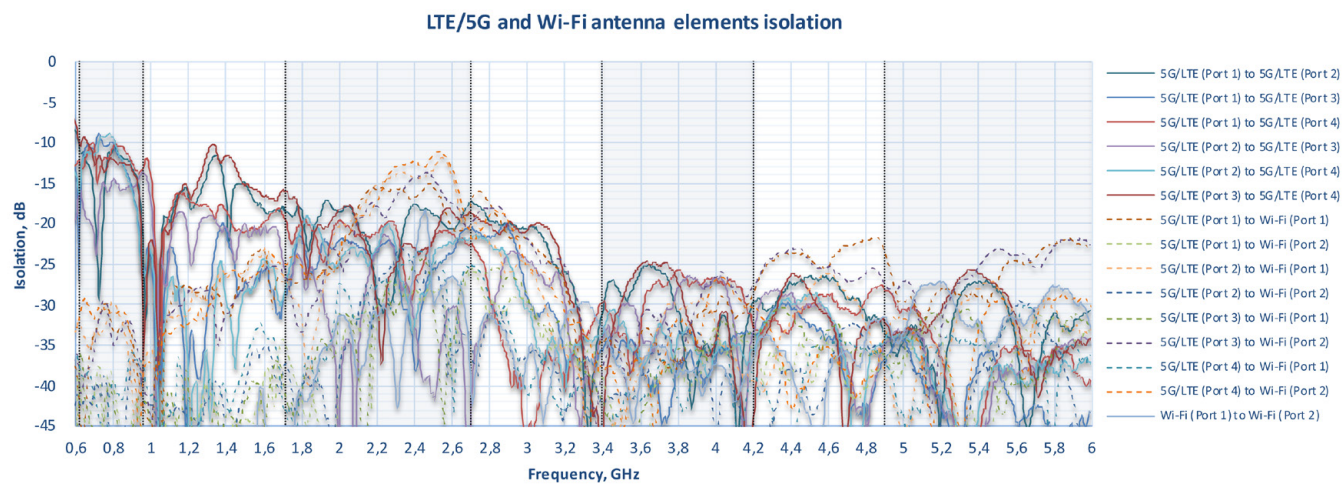


Wi-Fi Antenna Efficiency



Cellular & Wi-Fi Antenna Performance

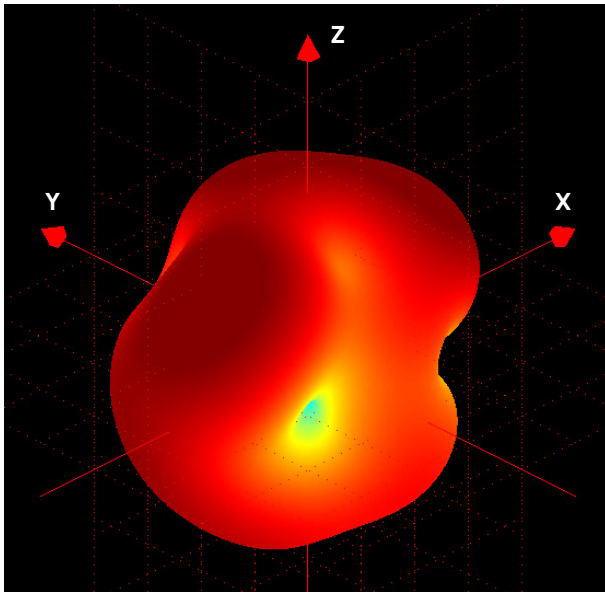
Cellular & Wi-Fi Antenna Isolation



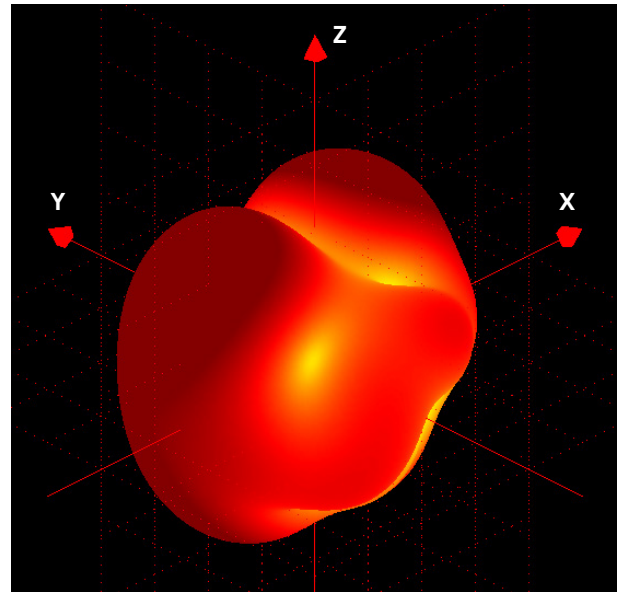
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

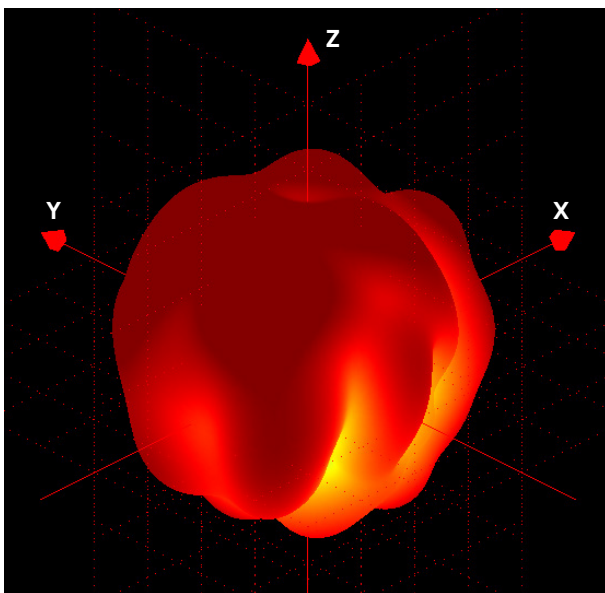
617 MHz



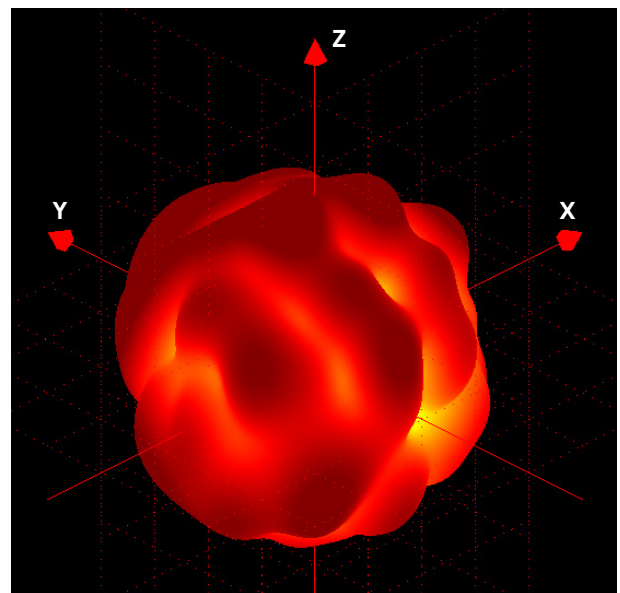
798 MHz



1496 MHz



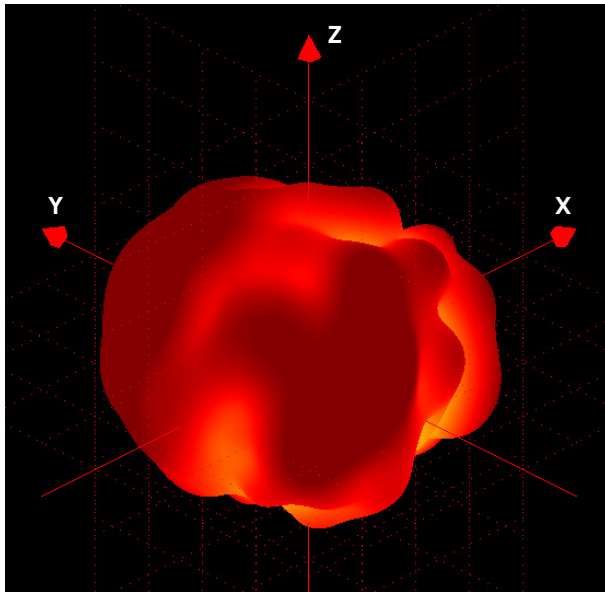
1805 MHz



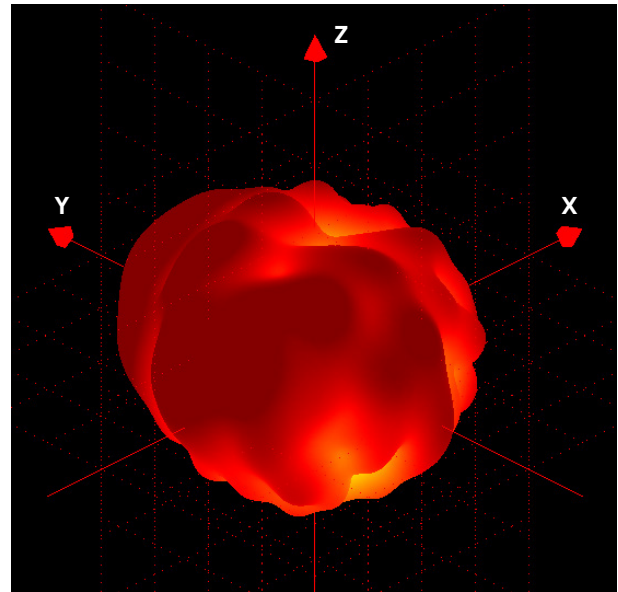
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

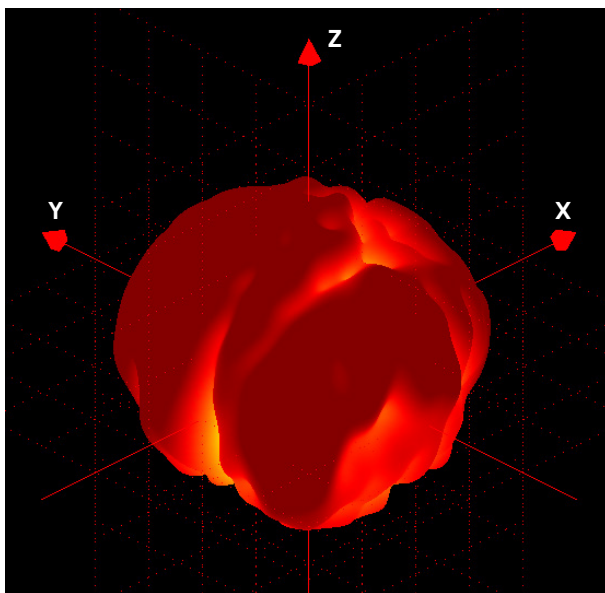
2110 MHz



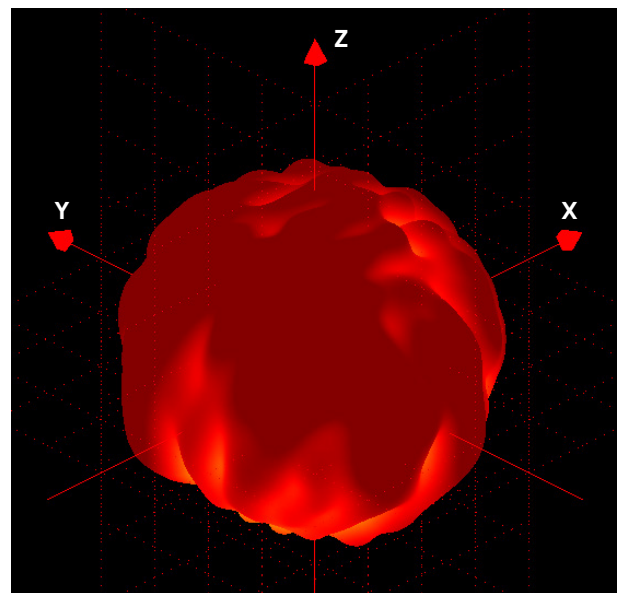
2400 MHz



3550 MHz



3800 MHz



Installation Recommendation

Wall Mount



Pole Mount



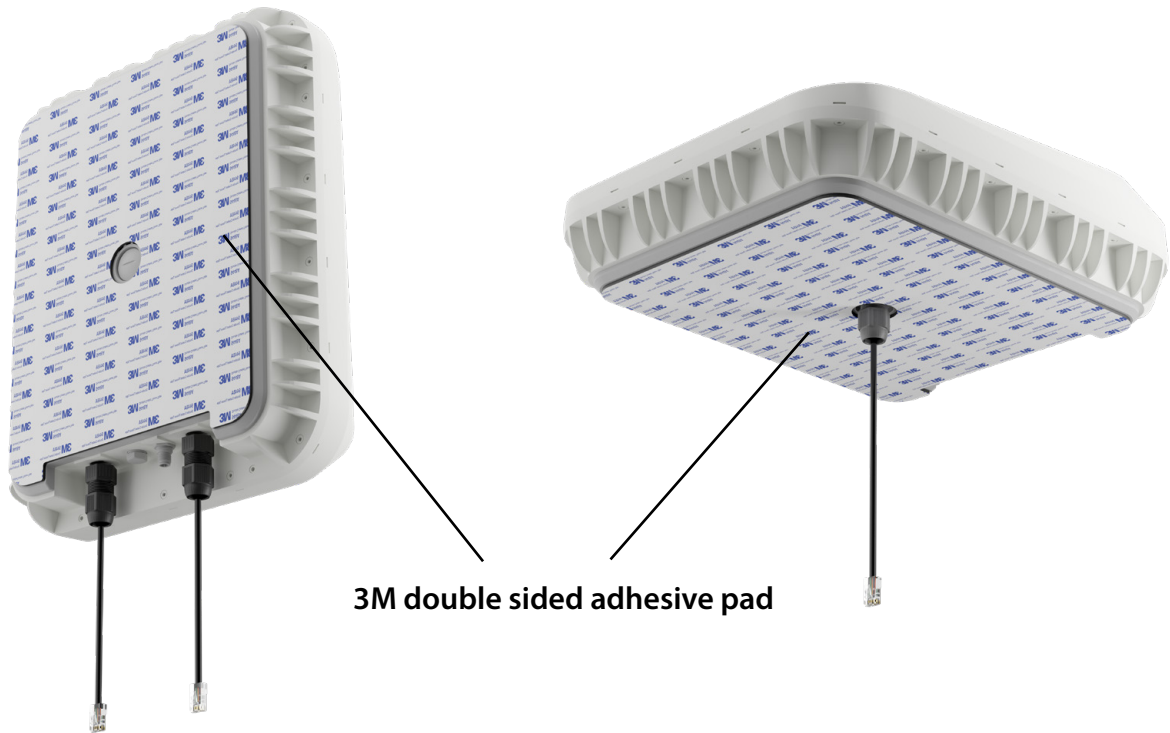
Horizontal Pole



Vertical Pole

Installation Recommendation

Surface Mount



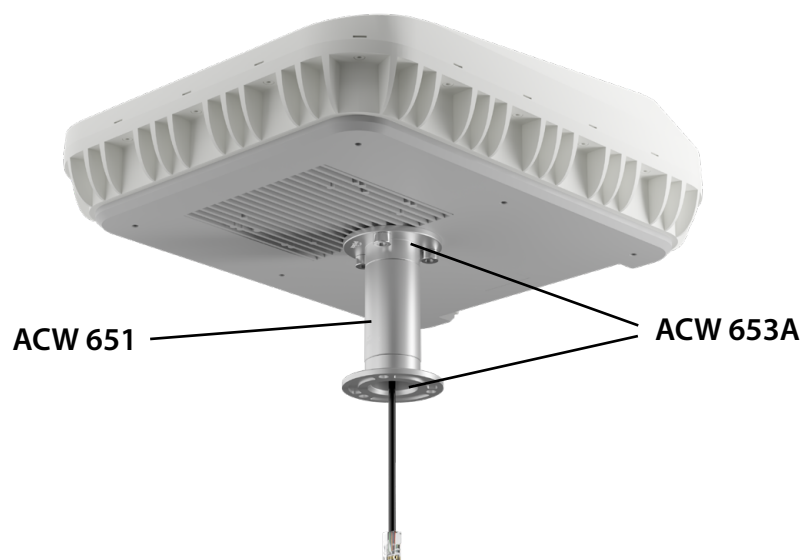
Magnetic Mount



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.

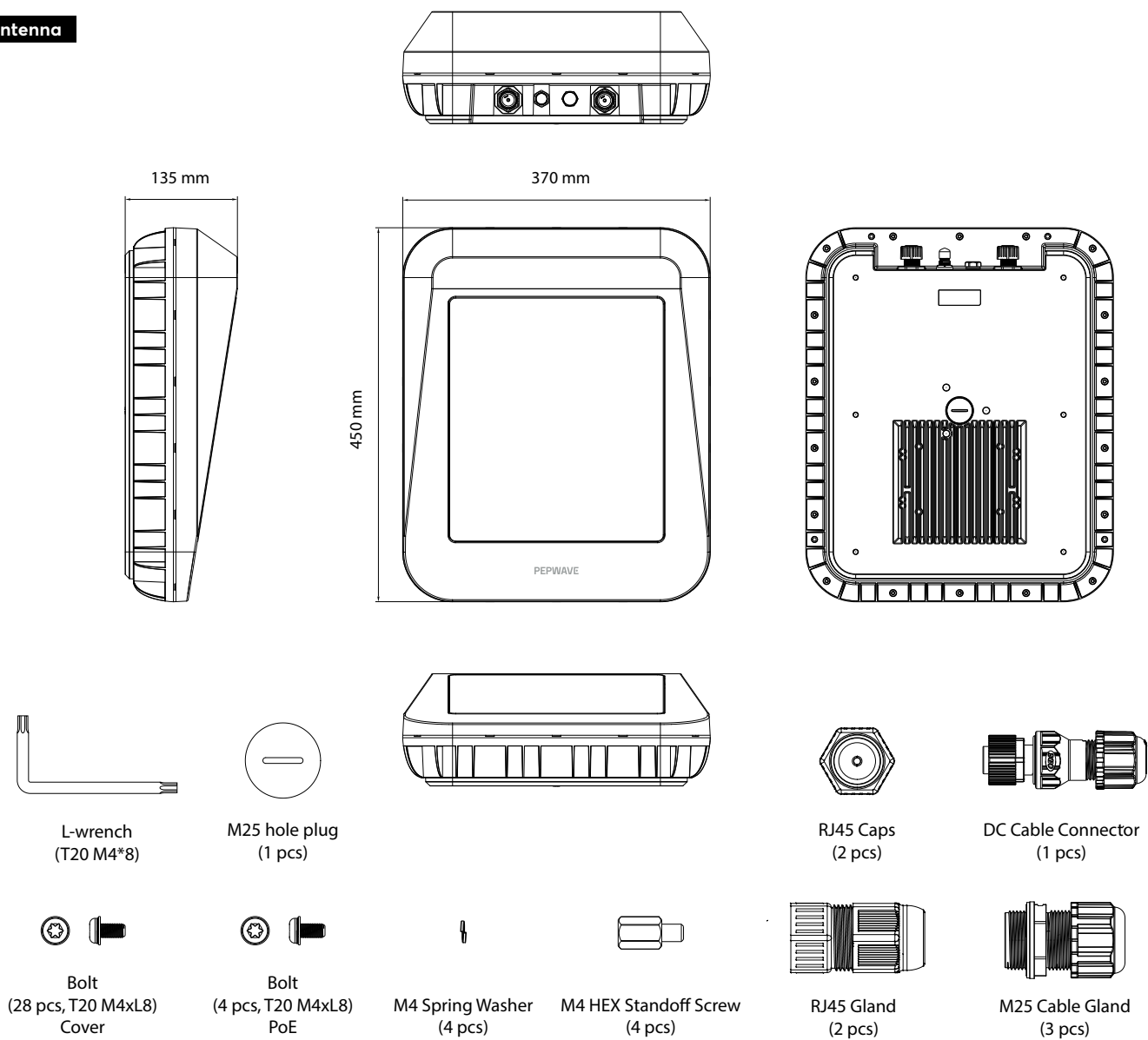
Fasten the Antenna MAX S by using M6 screws

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

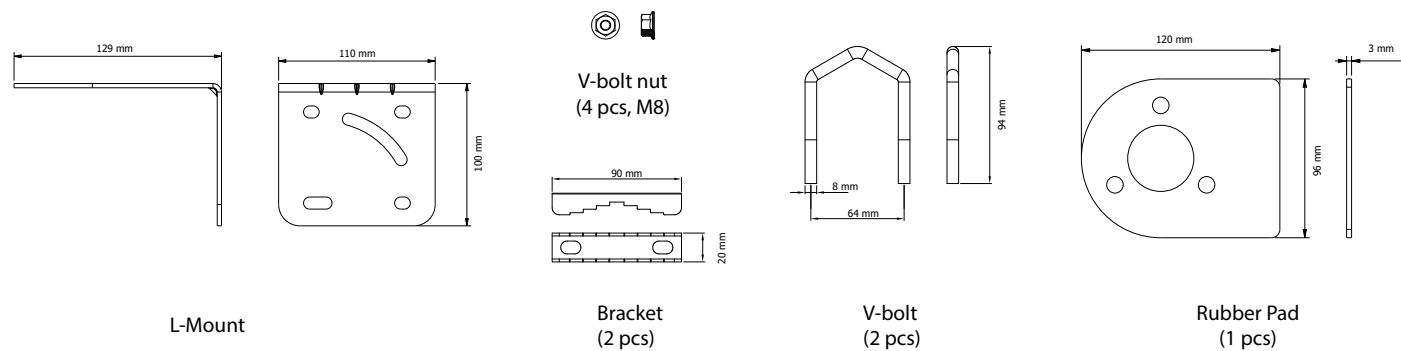


Packing List Information

Antenna

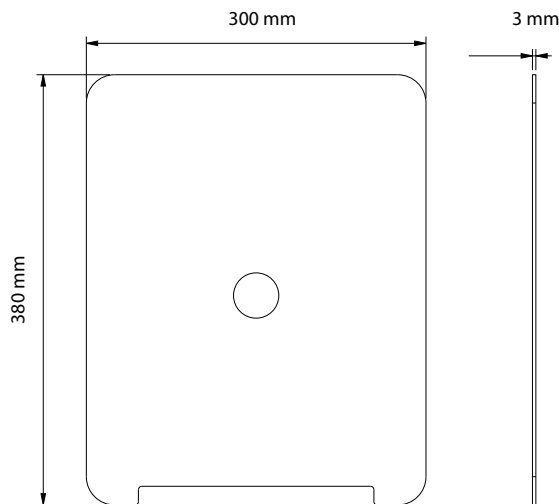


L-Mount Mount Set

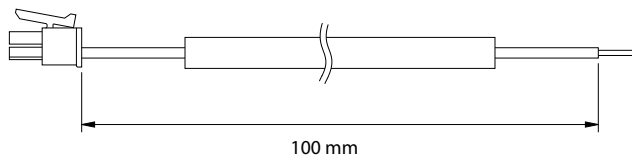


Packing List Information

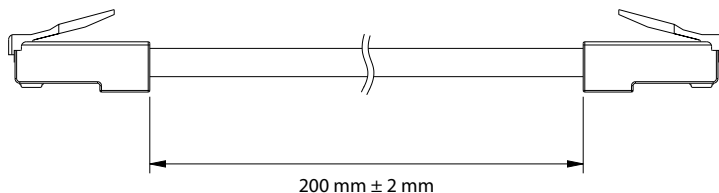
Adhesive Pad



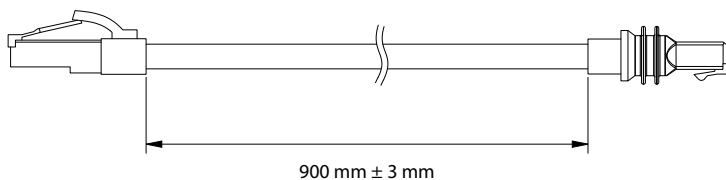
Cables



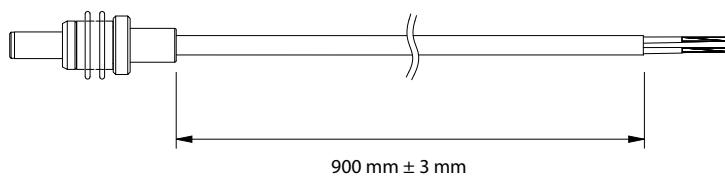
DC Cable



Ethernet Cable



Starlink Ethernet cable

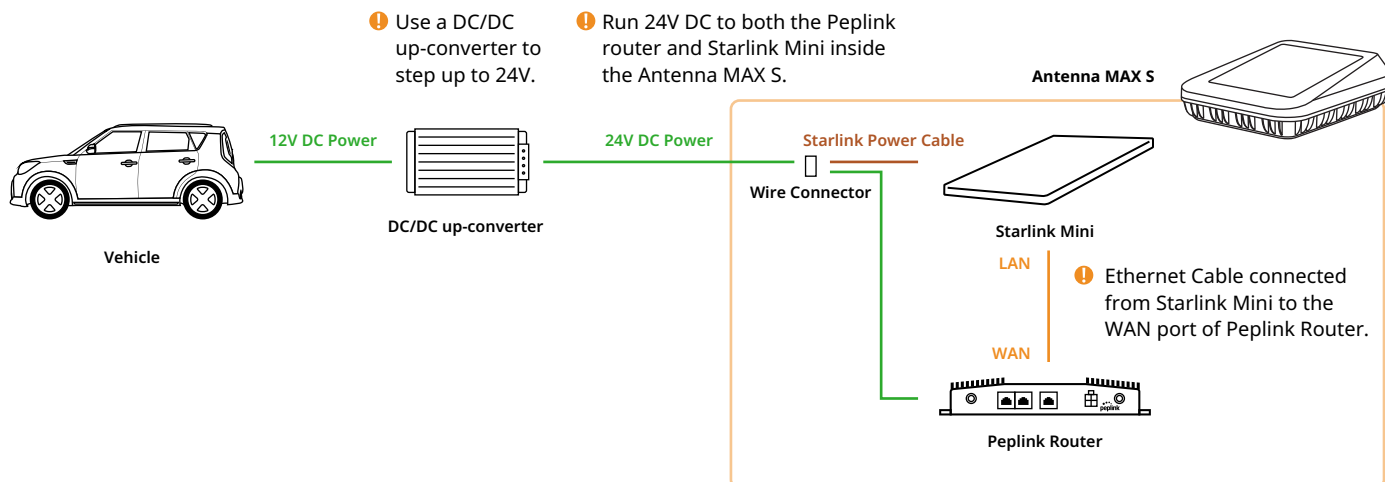


Starlink power cable

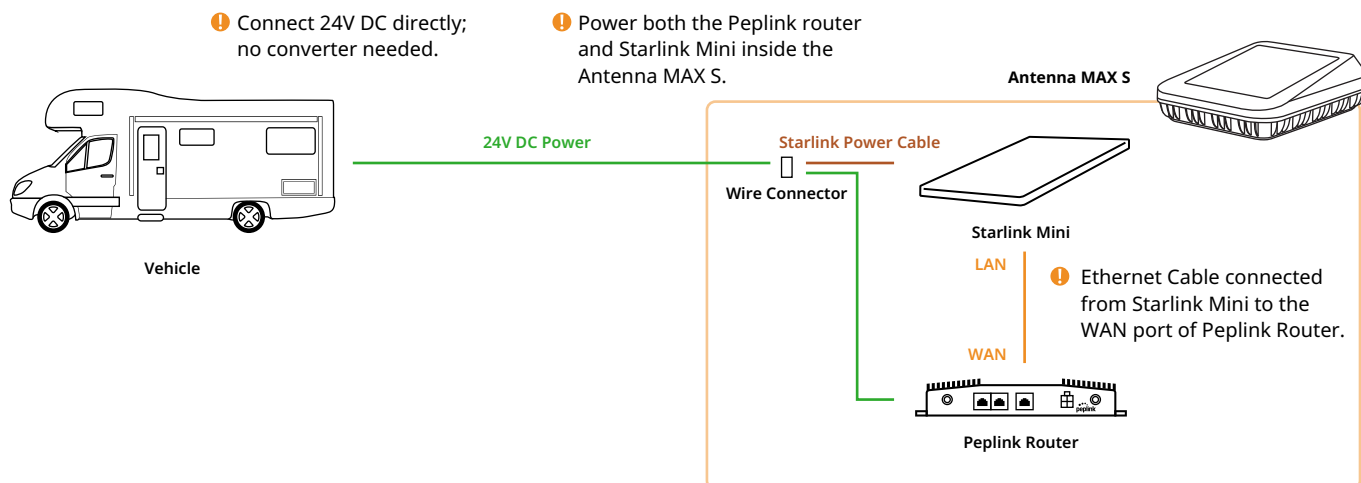
FAQ

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

