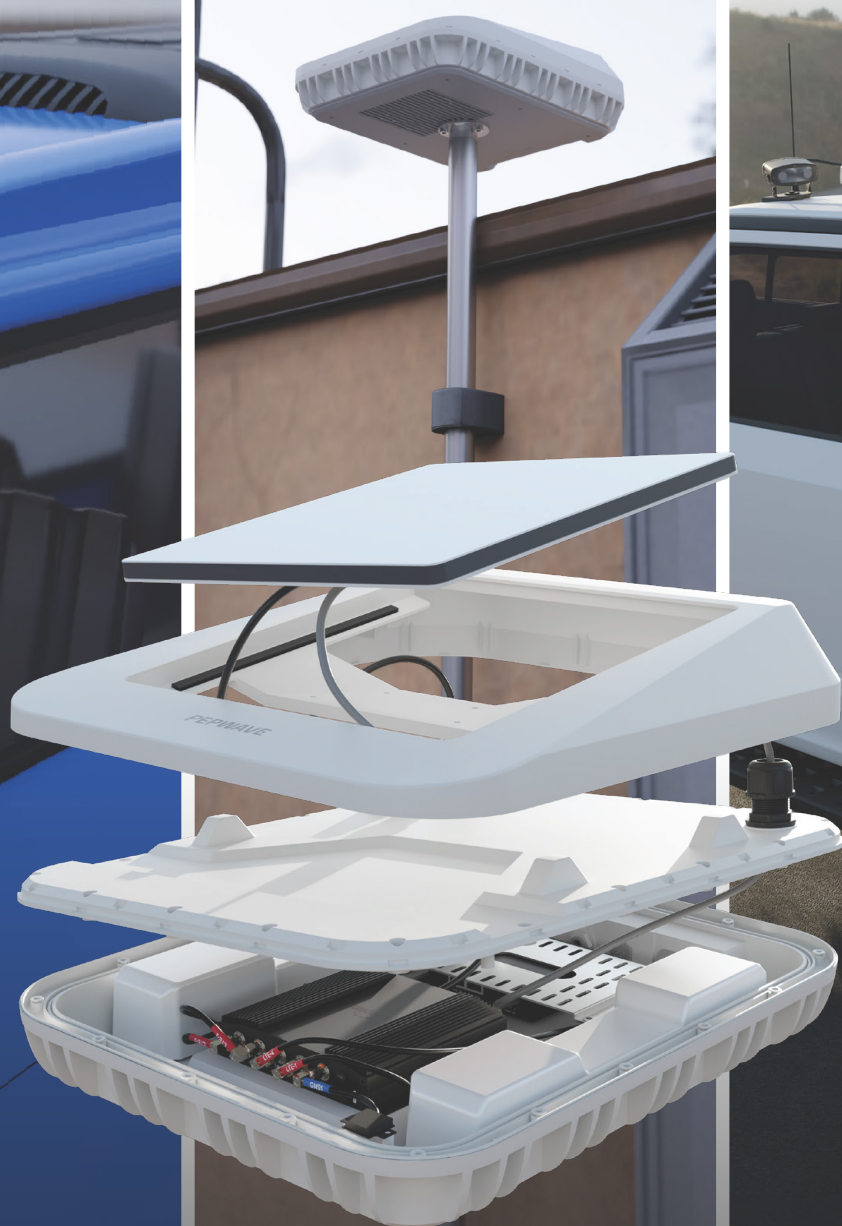




Bentley Telecom
BROADBAND SERVICES



Antenna MAX S

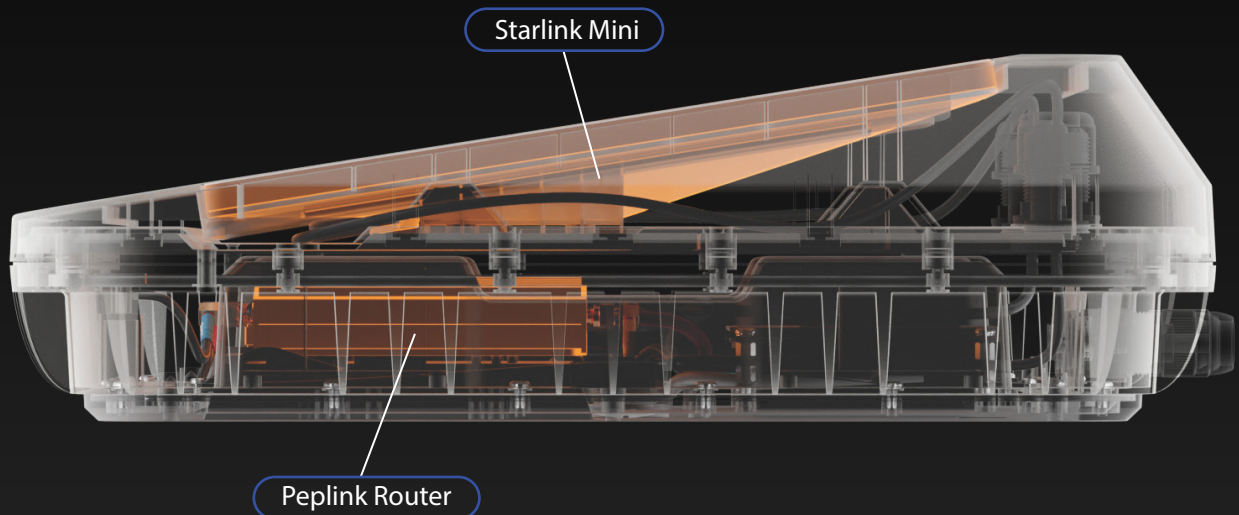
Maximum Synergy

Integrated Antenna Enclosure for Peplink and Starlink



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.



peplink × 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

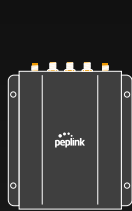
The Antenna MAX S is engineered for outdoor longevity, built with UV- and salt-resistant plastics, fitted with a metal base for heat dissipation, and tested to withstand wind speeds up to 230 km/h.



Convenience to the MAX

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

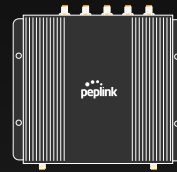
Use the top cover's watertight clasp system to conveniently secure the Peplink router of your choice:



BR1 Mini Series ~



Transit Duo Pro °

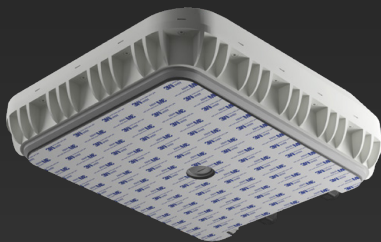


BR1 Pro 5G ° / CAT20 °

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

° For certain products which do not support PoE In, a PoE Splitter is required.

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



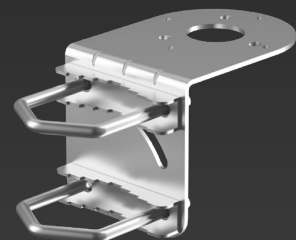
Surface Mount



Deck Mount



Magnetic Mount

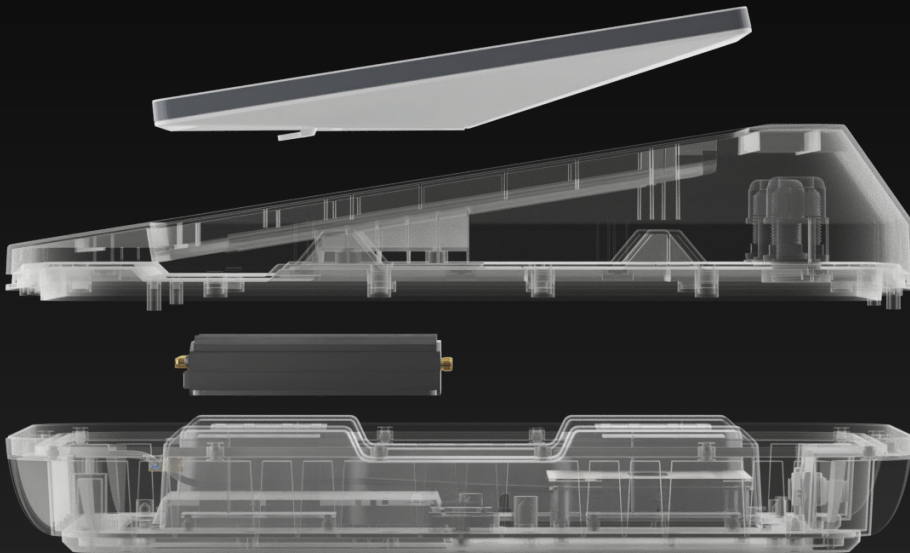


Pole Mount

Note: The deck and magnetic mount kits are **NOT included** in the package.

Value to the MAX

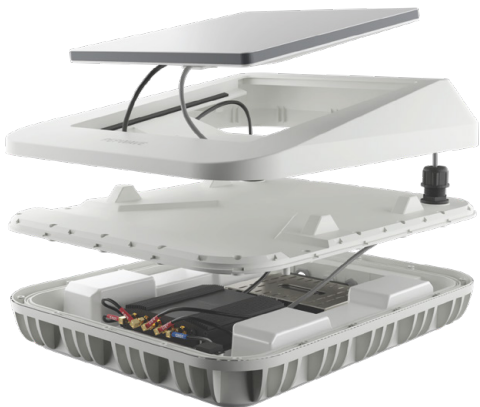
Designed for performance and priced for practicality, the Antenna MAX S delivers an all-in-one Starlink and cellular solution at a price that makes sense for businesses, fleets, and integrators alike.



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.



Antenna MAX S



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 $\pm$ 3dB		
Noise Figure	2.5dB		
Operating Voltage	3.3V		
Power Consumption	10 $\pm$ 3.0mA		
Connectors	Right angle SMA male		

Specifications are subject to change without notice.

Specification

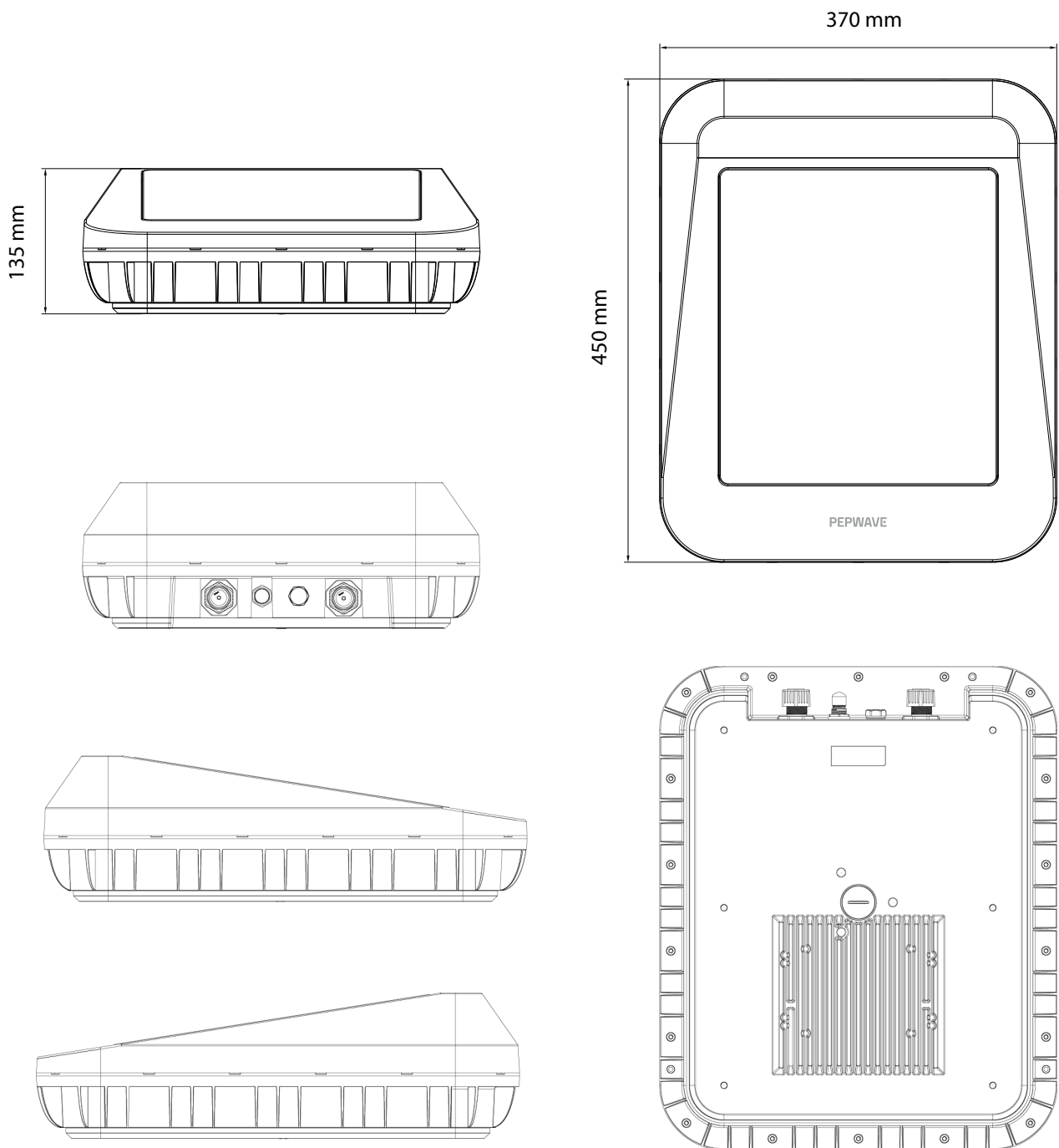
Mounting		Mechanical	
Supported Types	Surface, Pole	Product Dimensions	17.6" / 448 mm - Length 14.5" / 368 mm - Width 5.3" / 135 mm - Height
Package Contents		Packaged Dimensions	585 x 456 x 185 mm / 23.03" x 17.95" x 7.28"
Package Contents	Antenna MAX S L-Mount Set Power supply/splitter mounting set Router fixation screws 3pcs M25 cable glands 1pcs M25 hole plug 2pcs RJ45 glands 2pcs RJ45 caps 2pcs Hole plug 1pcs Starlink power cable (31" / 800 mm) 1pcs Starlink Ethernet cable (31" / 800 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.

Antenna MAX S

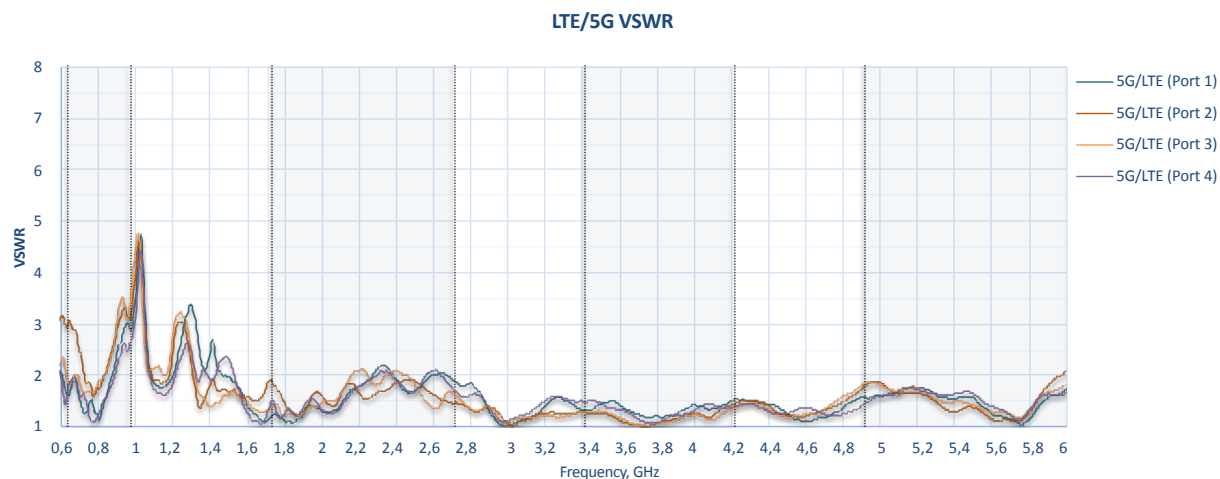
Technical Drawing



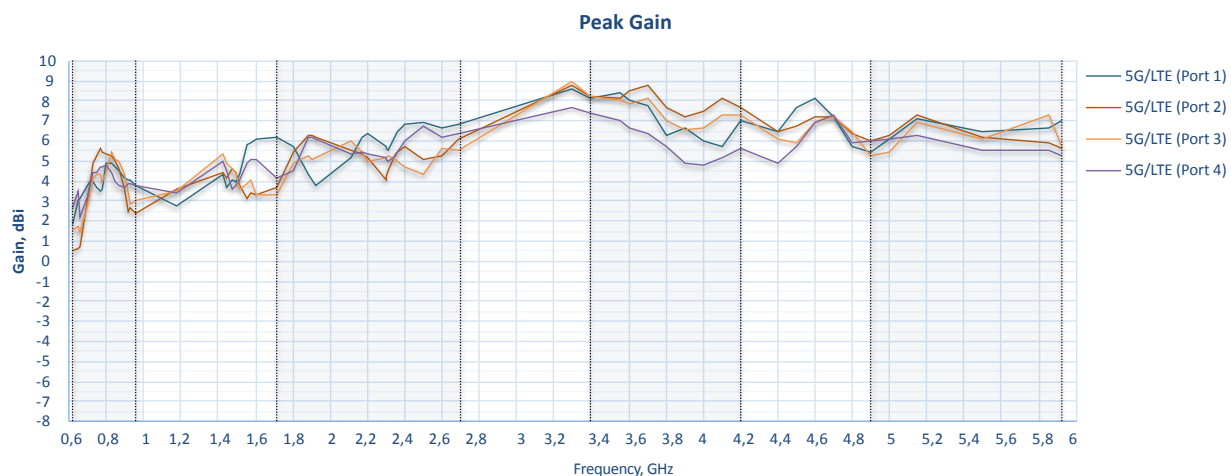


Cellular Antenna Performance

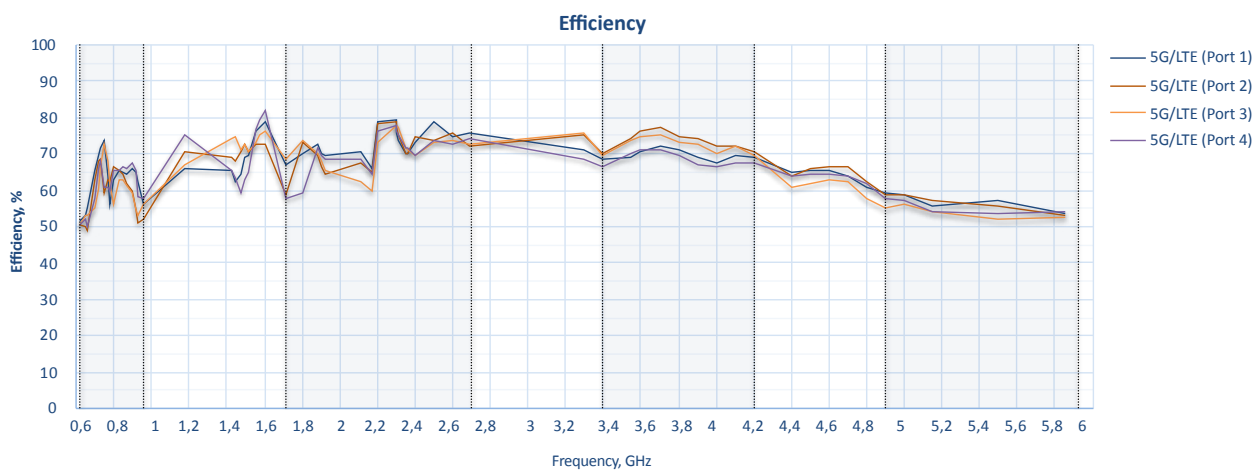
Cellular Antenna VSWR



Cellular Antenna Gain



Cellular Antenna Efficiency

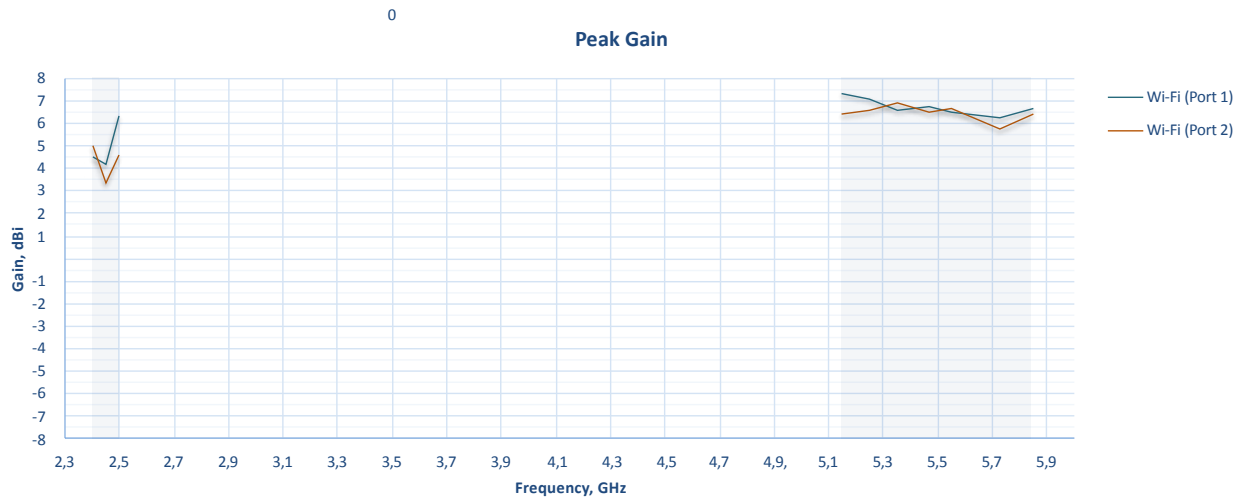


Wi-Fi Antenna Performance

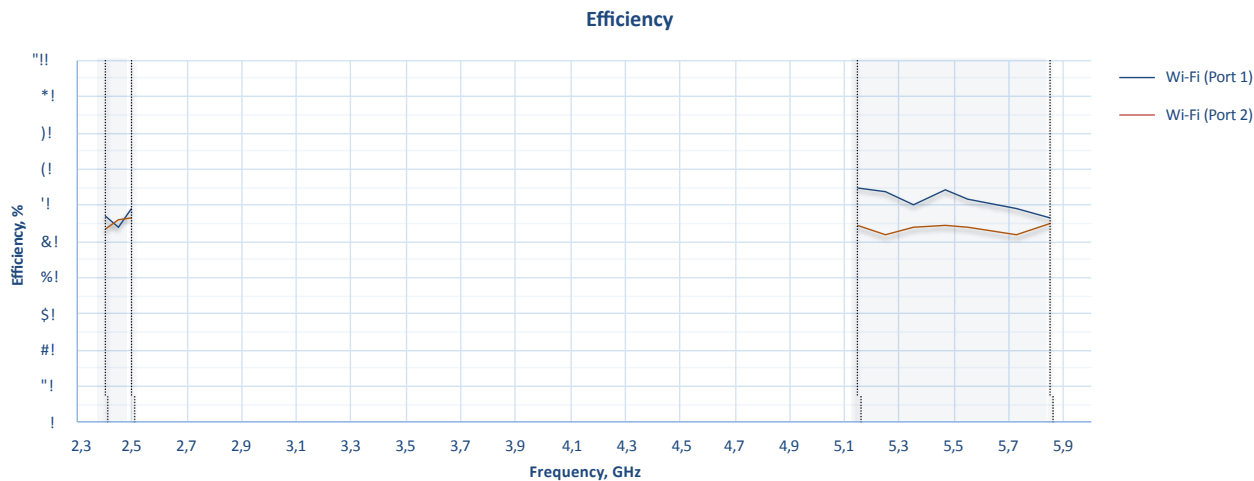
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain



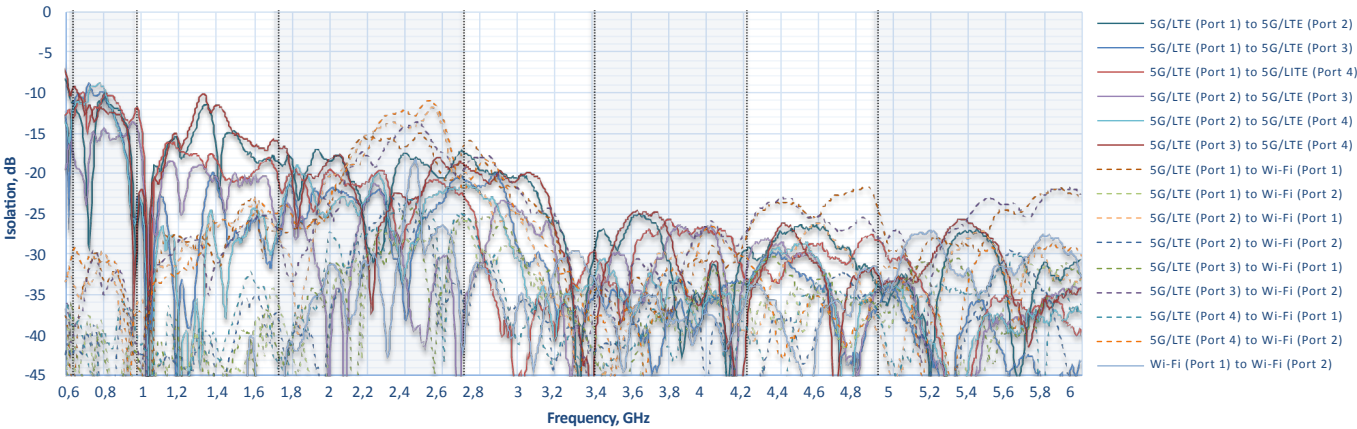
Wi-Fi Antenna Efficiency



Cellular & Wi-Fi Antenna Performance

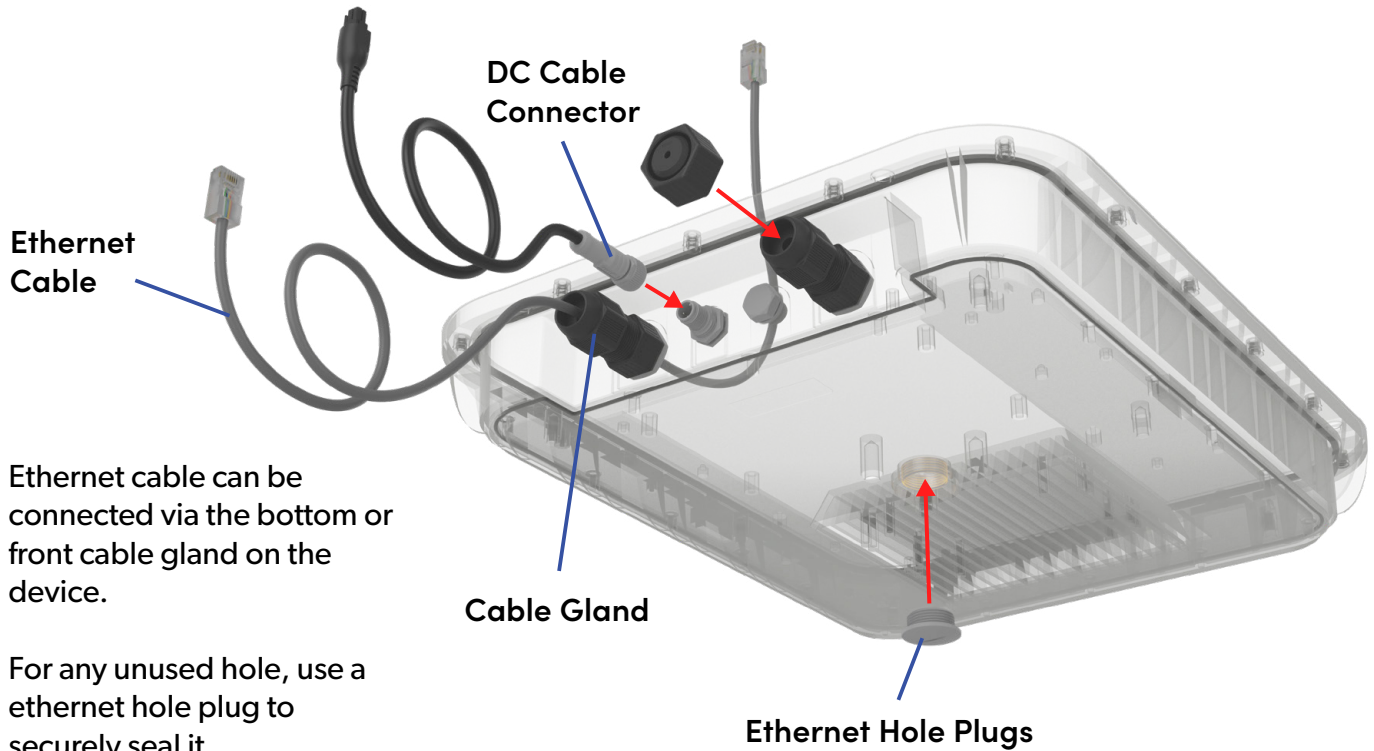
Cellular & Wi-Fi Antenna Isolation

LTE/5G and Wi-Fi antenna elements isolation



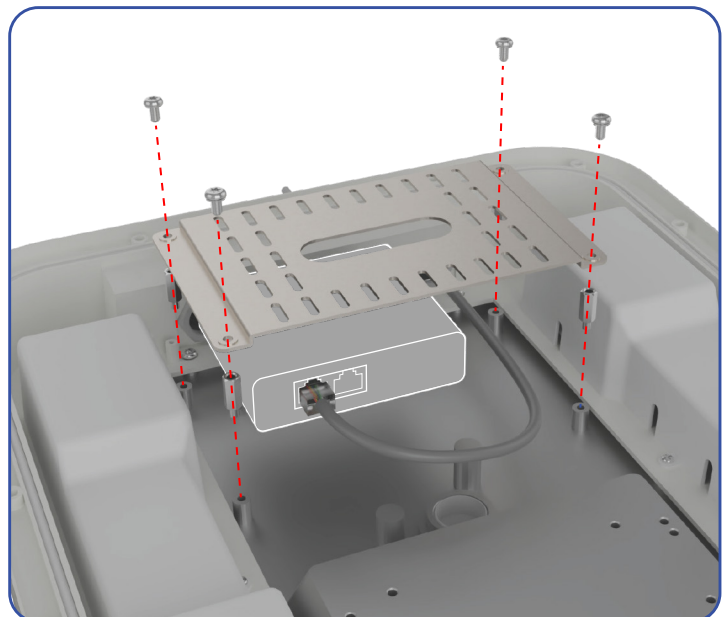
Installation Recommendation

Ethernet and DC Power Cable



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.

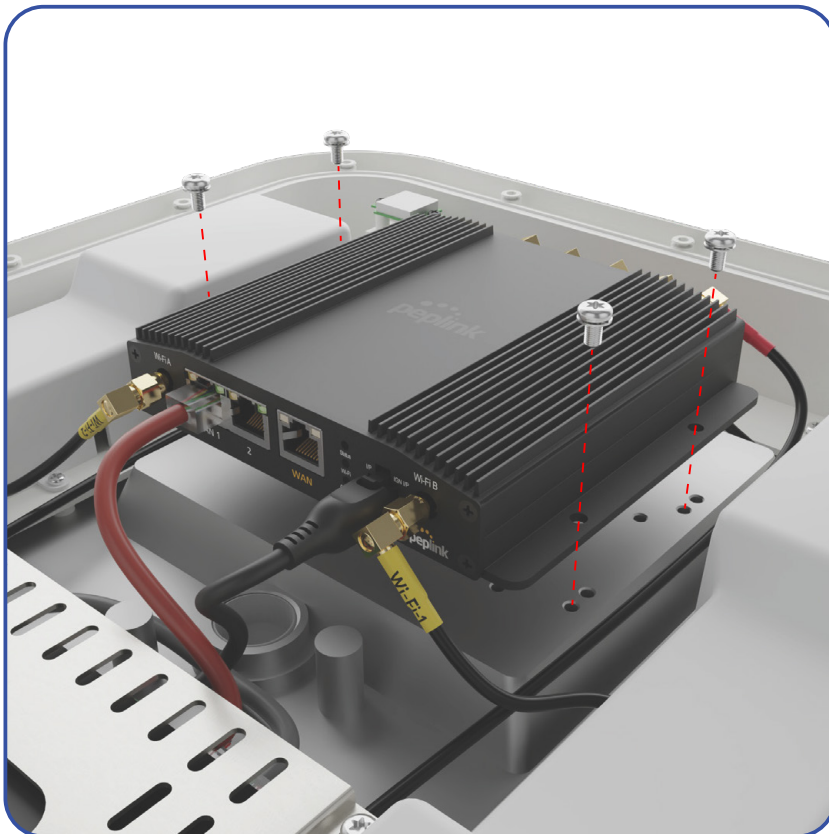
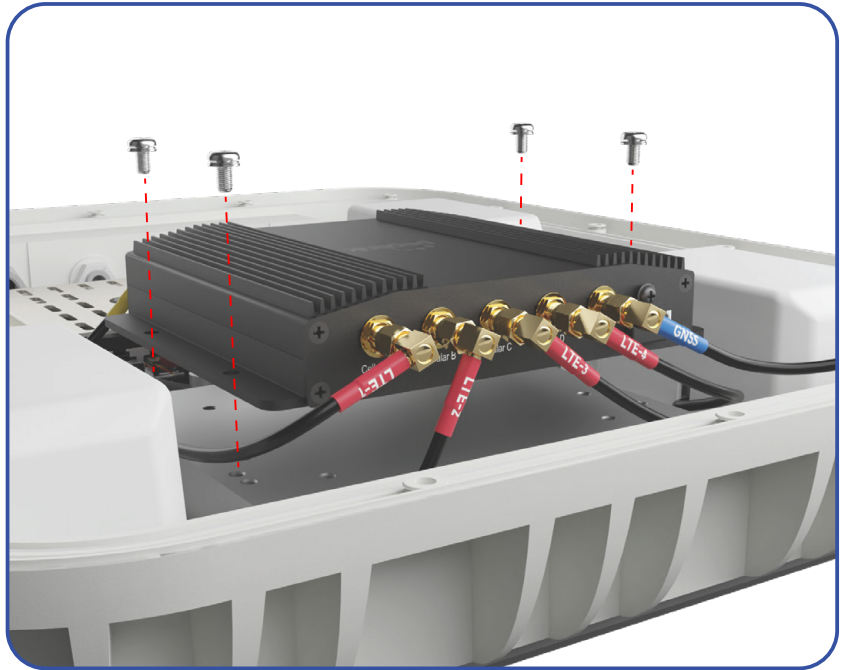


Note: The PoE Splitter is **NOT included** in the package.

Installation Recommendation

Install Router

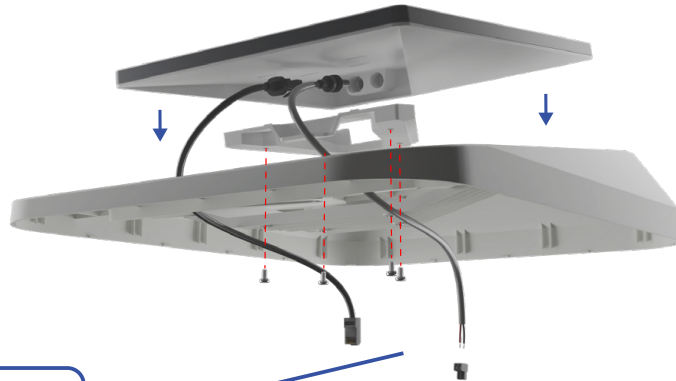
Connect the Cellular, Wi-Fi, and GPS antennas.



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

Installation Recommendation

Install Starlink Mini

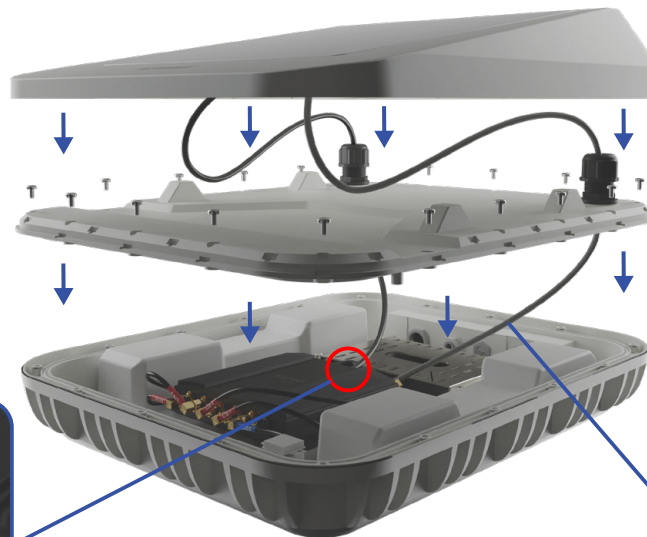


Connect the Ethernet and power cables to the Starlink Mini, and securely tighten the screws into the corresponding antenna mounting holes.



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.

Installation Recommendation

Wall Mount



Pole Mount



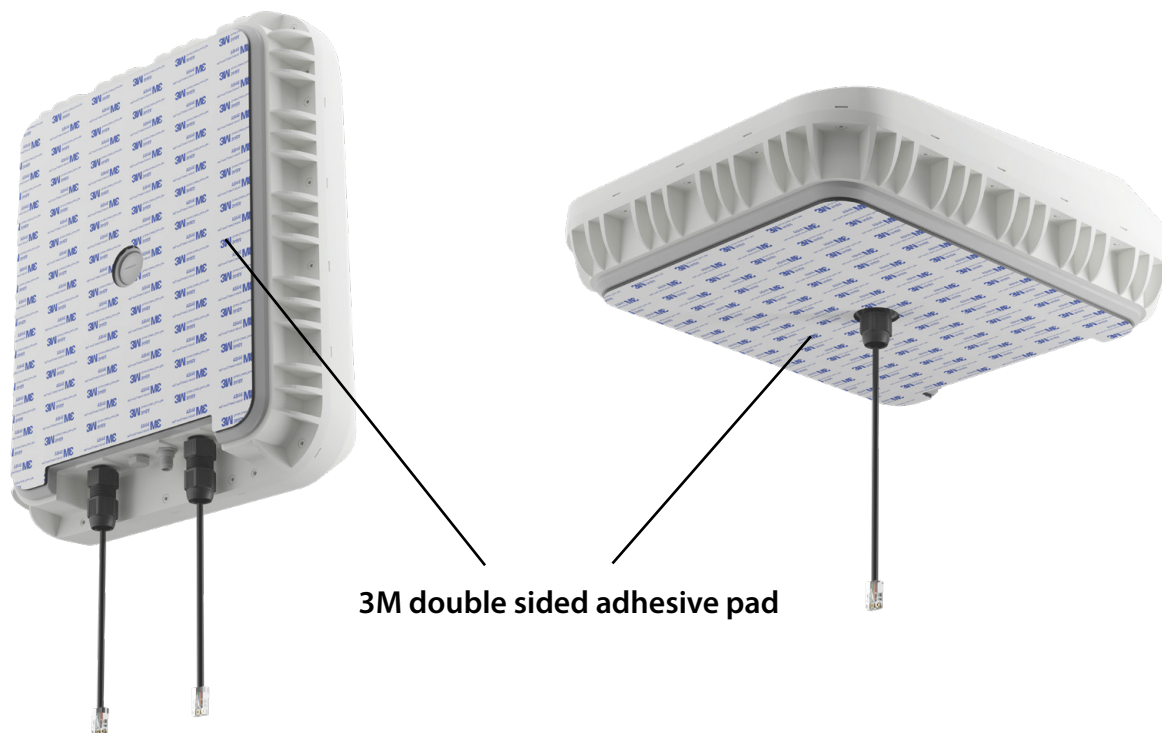
Horizontal Pole



Vertical Pole

Installation Recommendation

Surface Mount



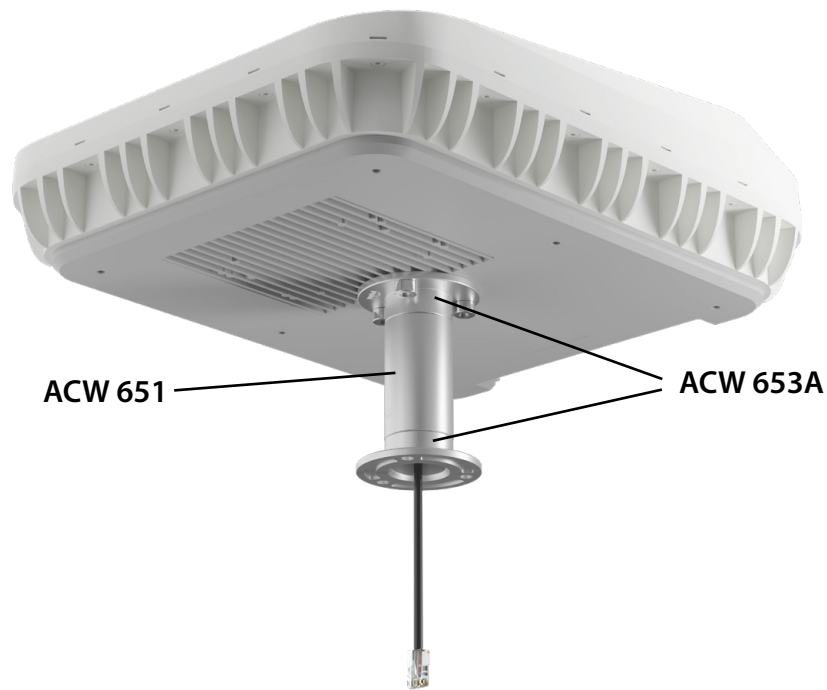
Magnetic Mount



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

Installation Recommendation

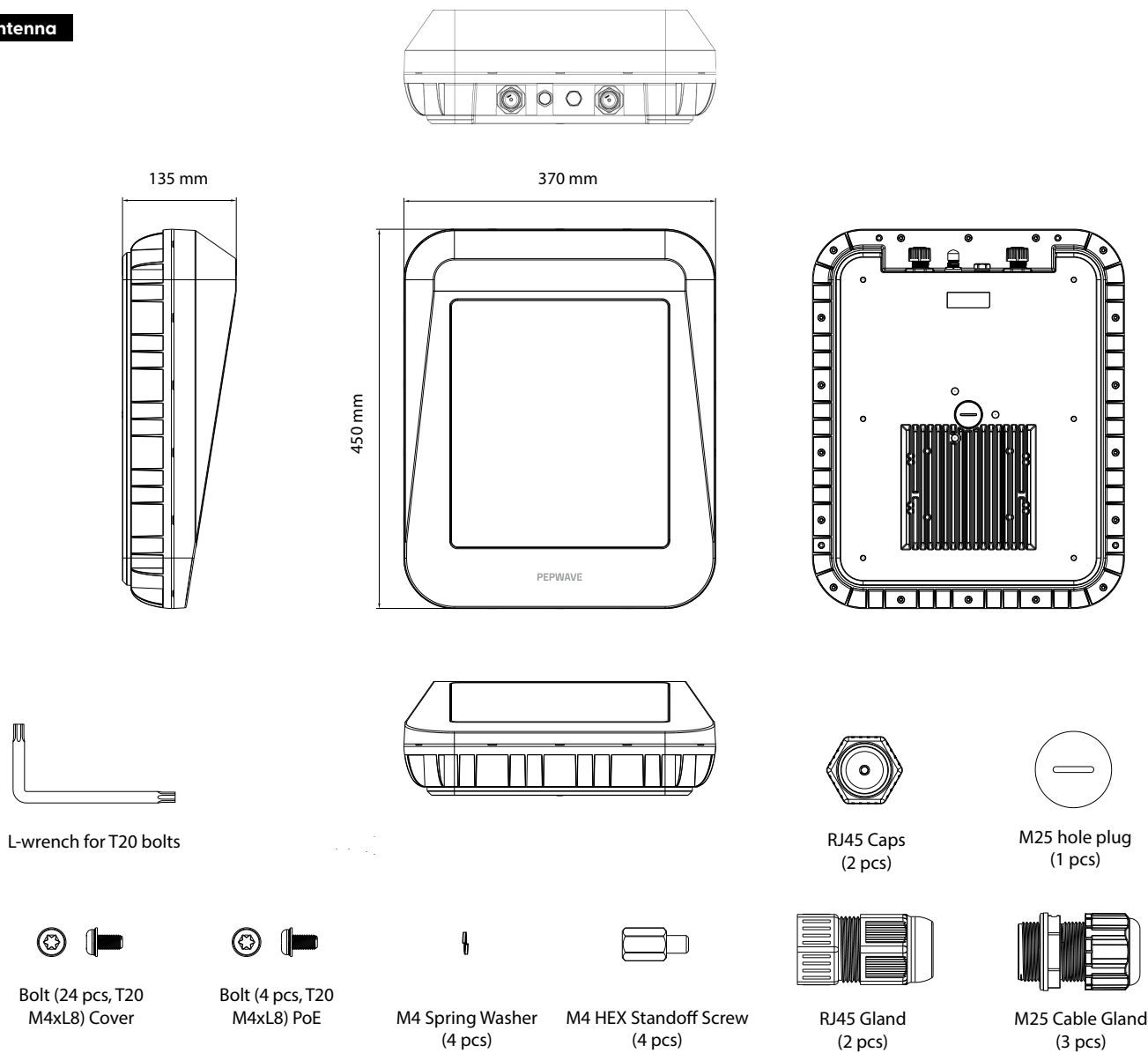
Deck Mount



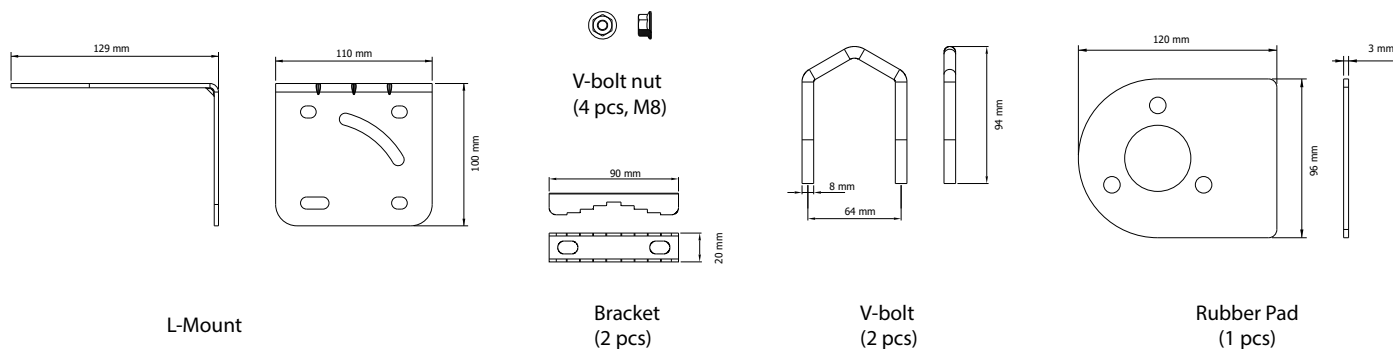
Note: The deck mount kit is **NOT included** in the package.

Packing List Information

Antenna

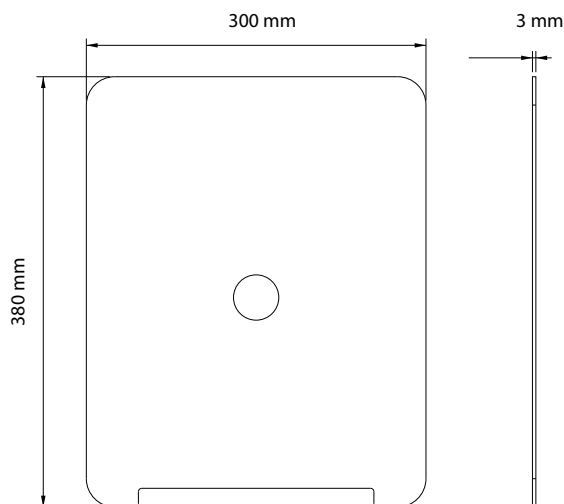


L-Mount Mount Set

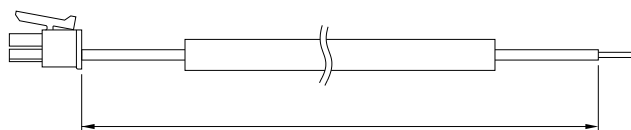


Packing List Information

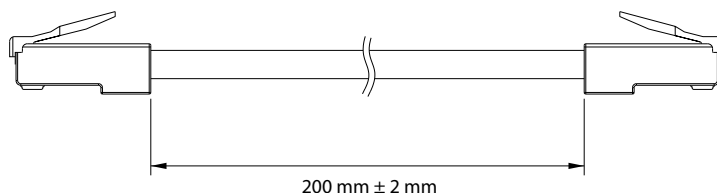
Adhesive Pad



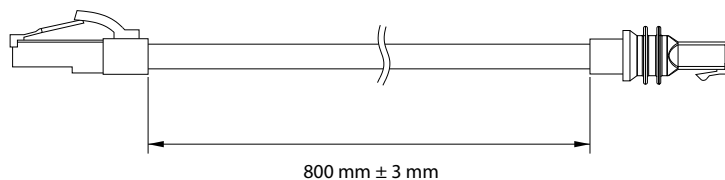
Cables



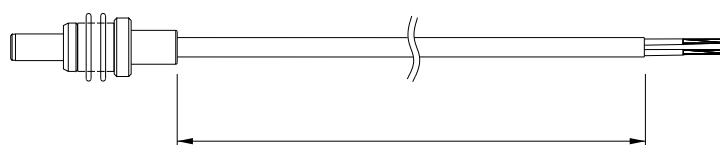
DC Cable
100 mm



Ethernet Cable



Starlink Ethernet cable



Starlink power cable