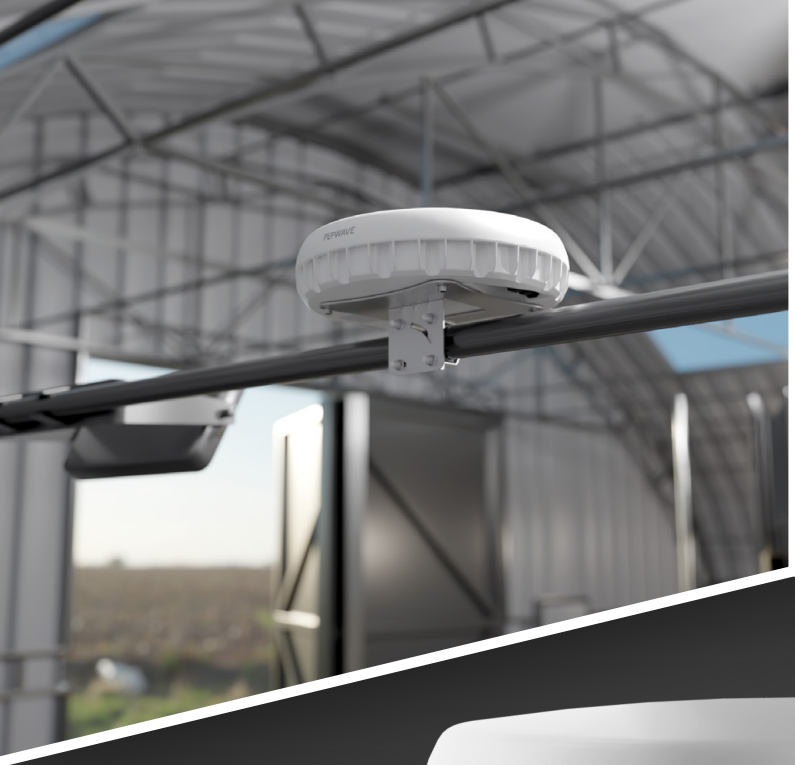

Antenna MAX Duo

- **Twice the Connectivity. One Seamless Enclosure.**

Integrated Dual-Modem or Dual-Router Antenna Housing

TAA COMPLIANT

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ref: 2509 - v1

Antenna MAX Duo

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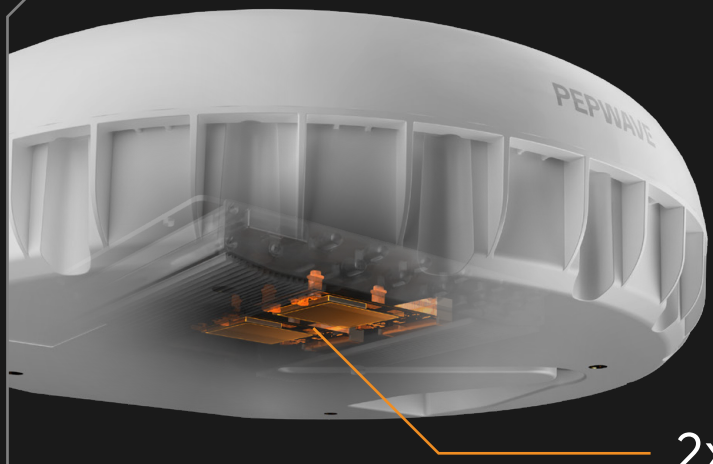
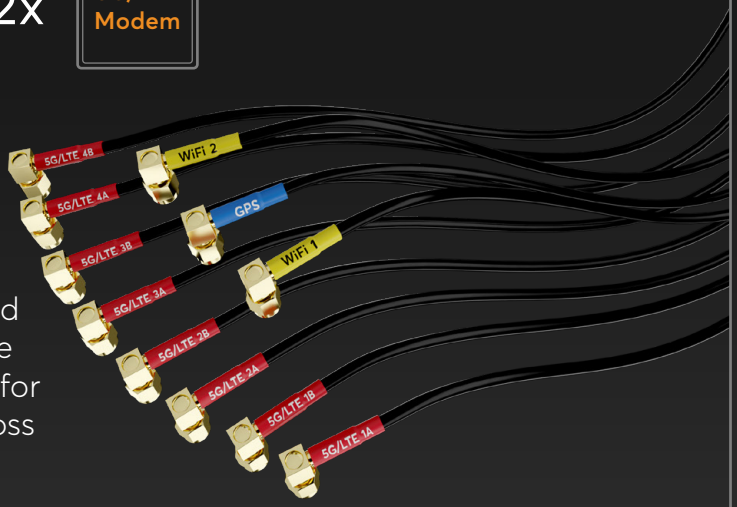
MAXed Out Synergy

Two Modems.
One Setup.
Unlimited Possibilities.

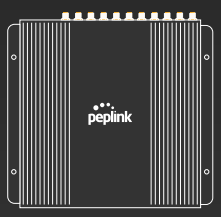


2x 5G/LTE Modem

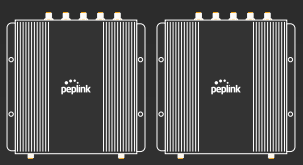


Featuring **8x 5G/LTE**, **2x Wi-Fi**, and **GPS** antenna elements, the Antenna MAX Duo delivers reliable connectivity using **two modems** housed in a single, ruggedized enclosure. The integrated design removes the need for external RF cabling, reducing signal loss and setup complexity.

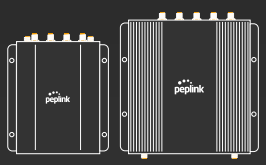
- Supported dual-modem Peplink router setups include:



[**BR2 Pro**]



[**2x BR1 Pro 5G**]*



[**BR1 Mini 5G + BR1 Pro 5G**]*

*Splitter MAX is required to provide power when more than one router is used.

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Antenna MAX Duo

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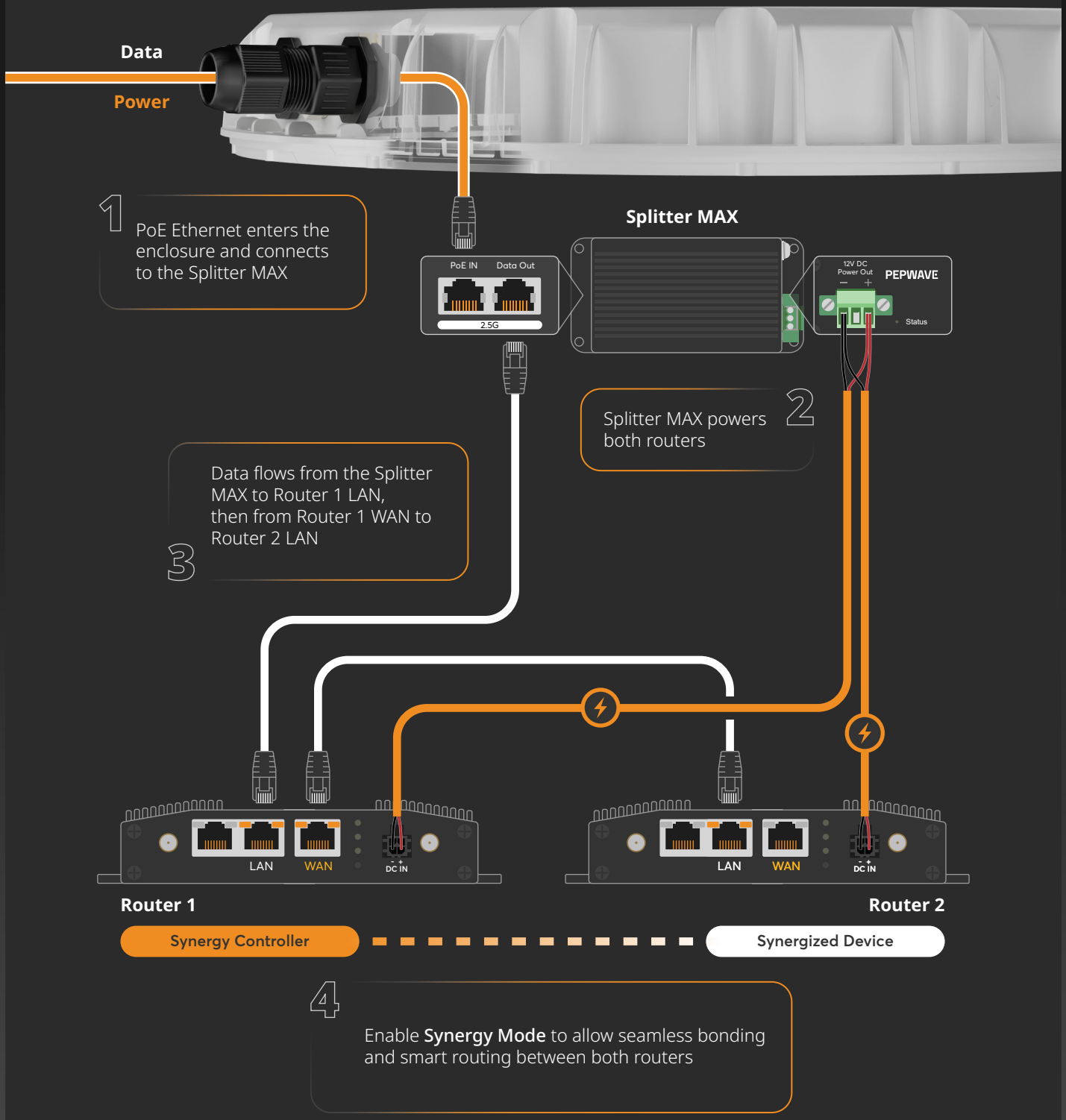
Using the Splitter MAX, both connectivity and power are managed through a single PoE cable, simplifying installation and reducing cable clutter.

- Suggested cable path for dual-router setups:



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Antenna MAX Duo

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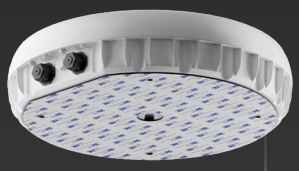
MAXed Out **Ruggedness**

Built to endure the elements, the Antenna MAX Duo is engineered for harsh environments with a **UV-stable**, **waterproof IP67-rated** enclosure and **flame-retardant**, **UV-resistant** plastics. Compliant with **MIL-STD 810F salt spray standards**, it's ready to perform reliably on land, at sea, and on the move.

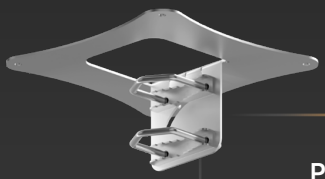
MAXed Out **Flexibility**

Whether installed on a vessel, vehicle, or fixed location, the Antenna MAX Duo adapts to your deployment.

- Set it up how you see fit with multiple mounting options:

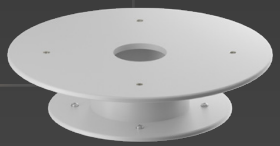


Surface Mount



Pole Mount
(vertical or horizontal)

Compatible with standard 3rd party maritime VSAT dome mounts
(not included in package)



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Antenna MAX Duo

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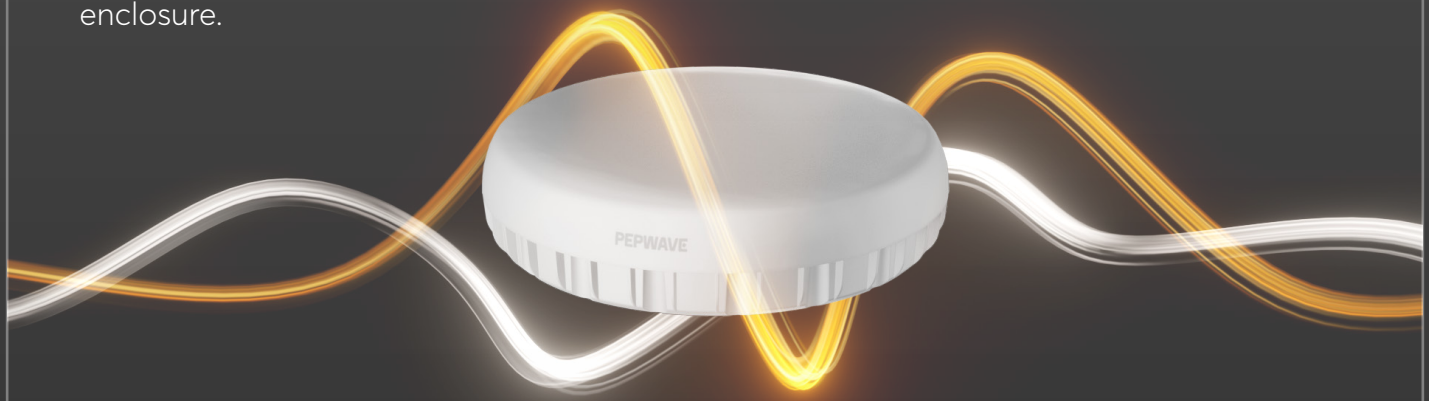
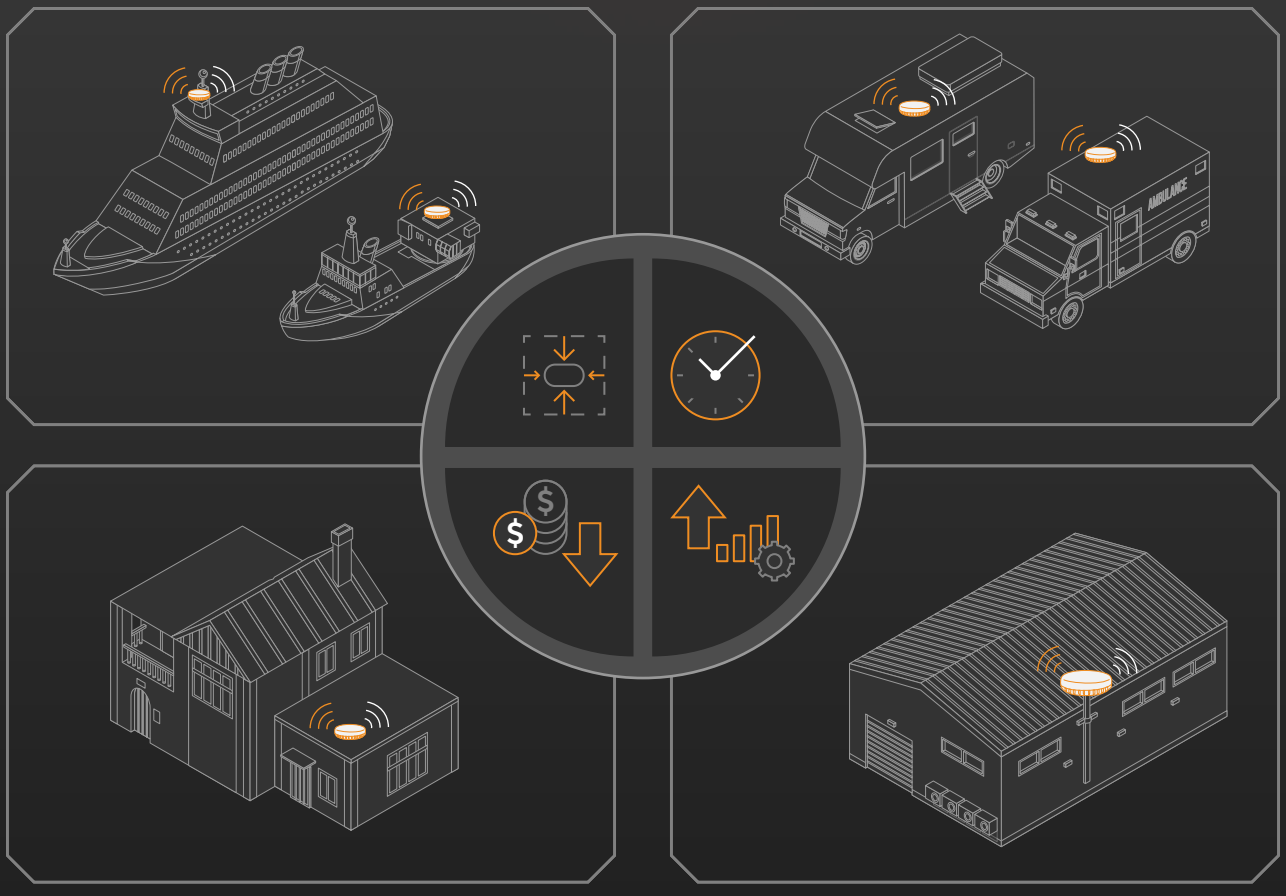
MAXed Out Savings

The **Antenna MAX Duo** delivers unmatched value by combining high-performance antenna arrays, robust protection, and dual-modem support into a single, compact enclosure.



It's a **space-efficient**, **time-saving**, **cost-effective**, and **performance-maximizing solution** for maritime, mobile, enterprise, and remote deployments.



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Antenna MAX Duo

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Specifications

Cellular

Antenna Elements	8 elements
Peak Gain & Frequencies	5.6dBi: 617-960MHz 6.5dBi: 1410-2700MHz 8.1dBi: 3400-4400MHz 7.4dBi: 5000-6000MHz
VSWR	< 2.5 over 95% of the band
Feed Power Handling	10W
Input Impedance	50 Ω
Polarisation	Linear
Connectors	Right angle SMA male

Wi-Fi

Antenna Elements	2 elements
Peak Gain & Frequencies	5.4dBi: 2400-2500MHz 7.4dBi: 5000-6000MHz
VSWR	< 2.5
Feed Power Handling	10W
Input Impedance	50 Ω
Polarisation	Linear
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.

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Antenna MAX Duo

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Specifications

Mounting

Supported Types	Surface, Pole

Package Contents

Package Contents	Antenna MAX Duo L-Mount Set Router fixation screws 5pcs Rubber Support TNF-19 3pcs Rubber Support TF-039 3pcs RJ45 glands 2pcs RJ45 caps 1pcs Double sided 3M adhesive pad 1pcs Ethernet cable (9.84" / 250mm) 1pcs Ethernet cable (14.96" / 380mm)

Mechanical

Product Dimensions	4.82” / 122.5 mm - Height 16.83” / 427.5 mm - Diameter
Packaged Dimensions	21.97" x 25.51" x 16.46" / 558 x 648 x 418 mm
Enclosure Material	UV stable PC

Environmental, Compliance

IP Rating	IP67
Operating Temperature	-40° - 176°F / -40° - 80°C
Storage Temperature	-40° - 176°F / -40° - 80°C
Compliance	ROHS, REACH, WEEE
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-DUO	8xLTE/5G, 2x Wi-Fi, 1xGPS 600-6000MHz, IP67, SMA male (Cellular, GPS), RP-SMA male (Wi-Fi), White

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Antenna MAX Duo

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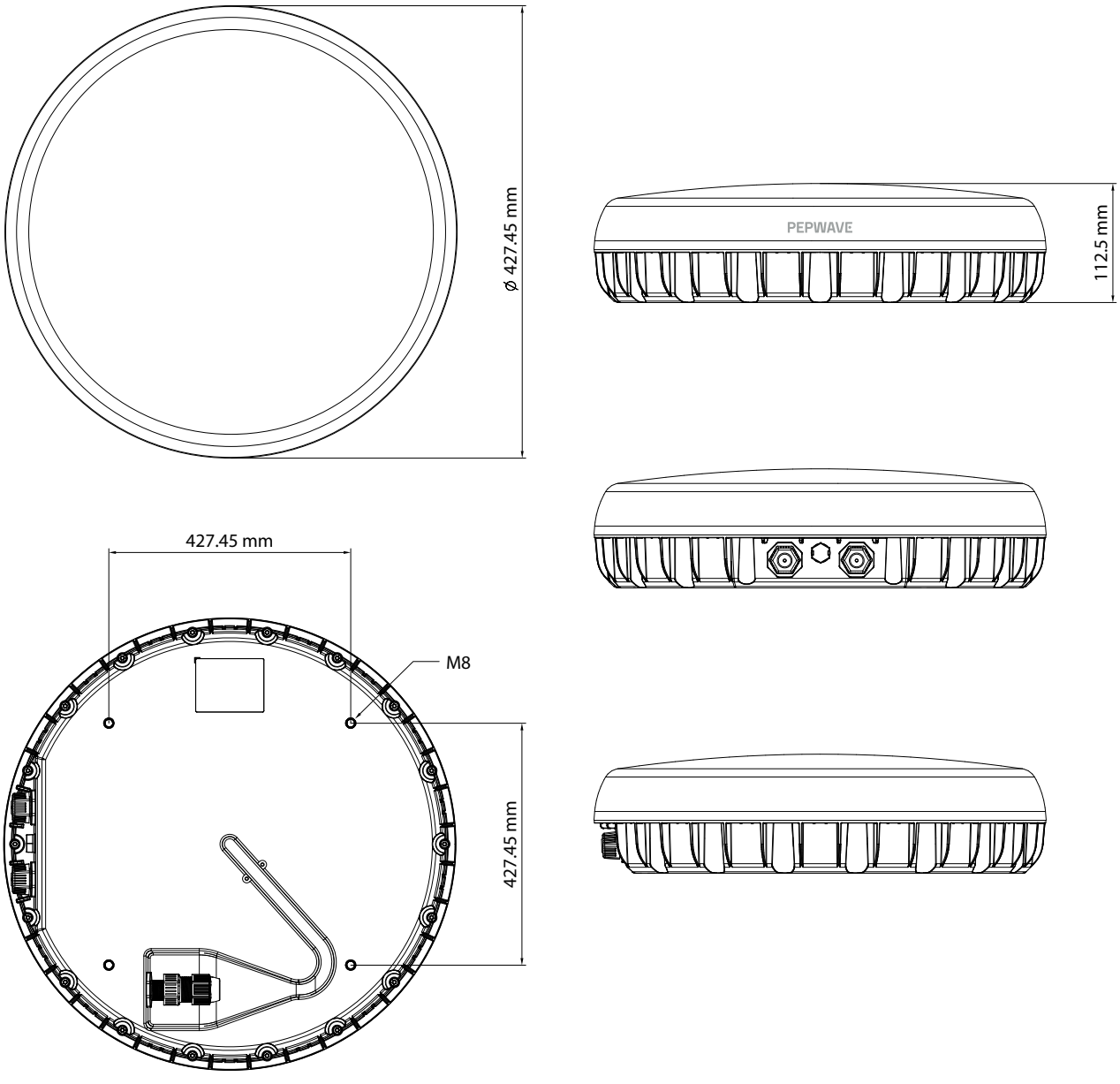
Technical Drawing



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Antenna MAX Duo

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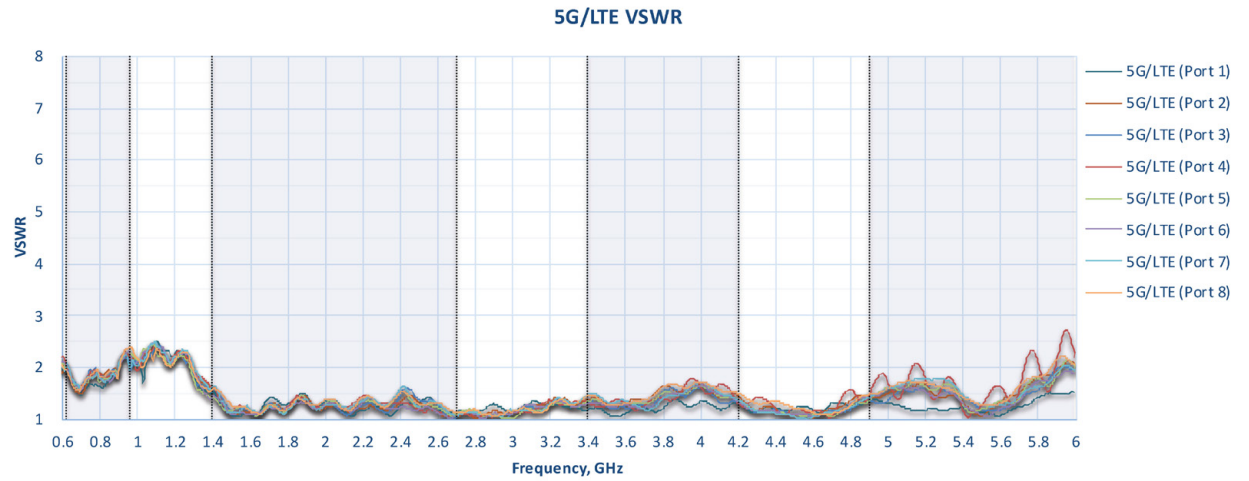
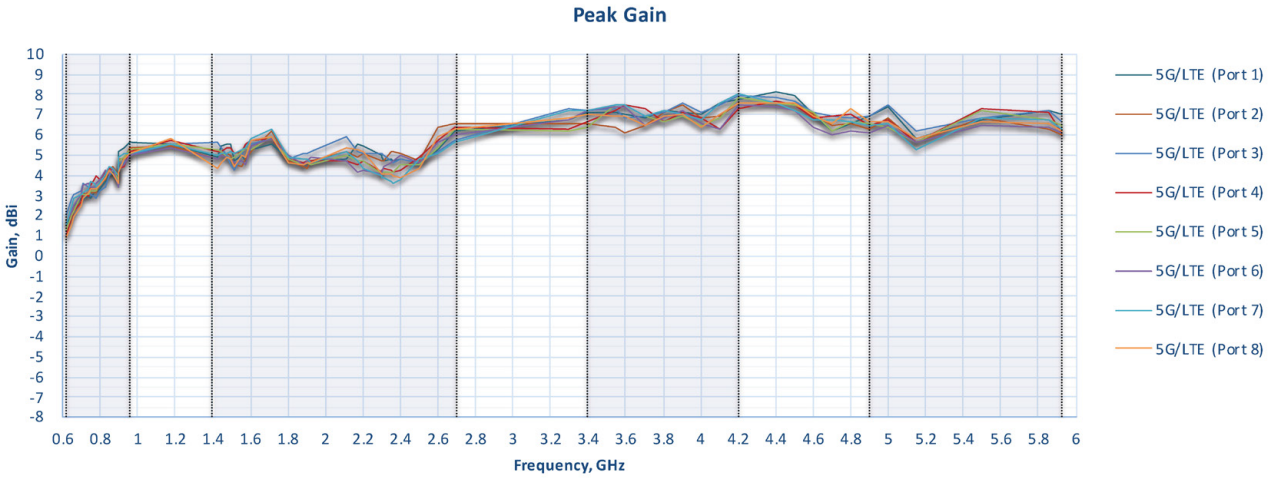
Cellular Antenna Performance

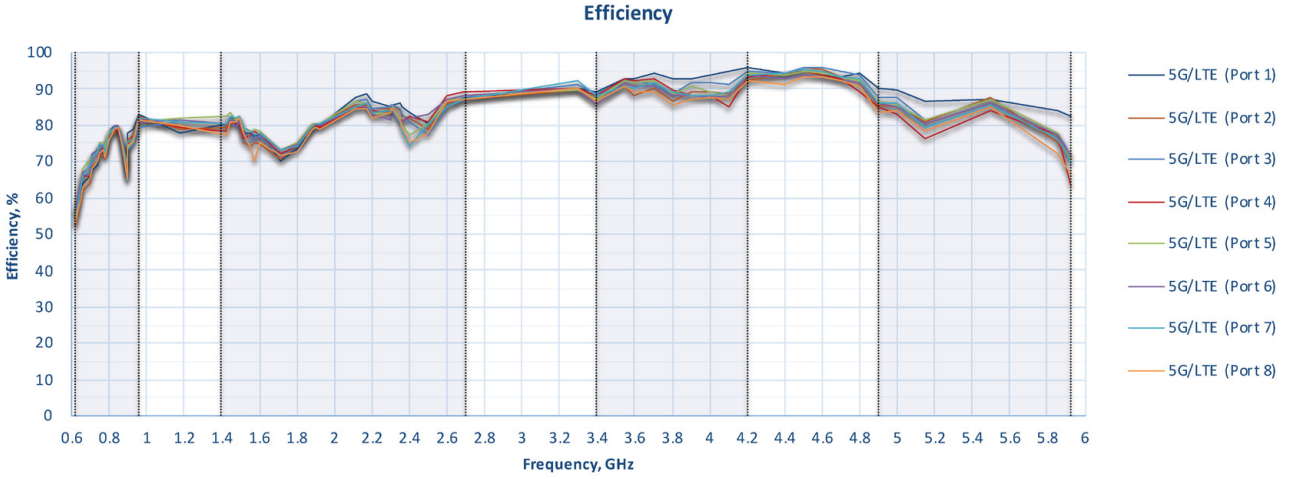
Cellular Antenna VSWR



Cellular Antenna Gain



Cellular Antenna Efficiency



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Antenna MAX Duo

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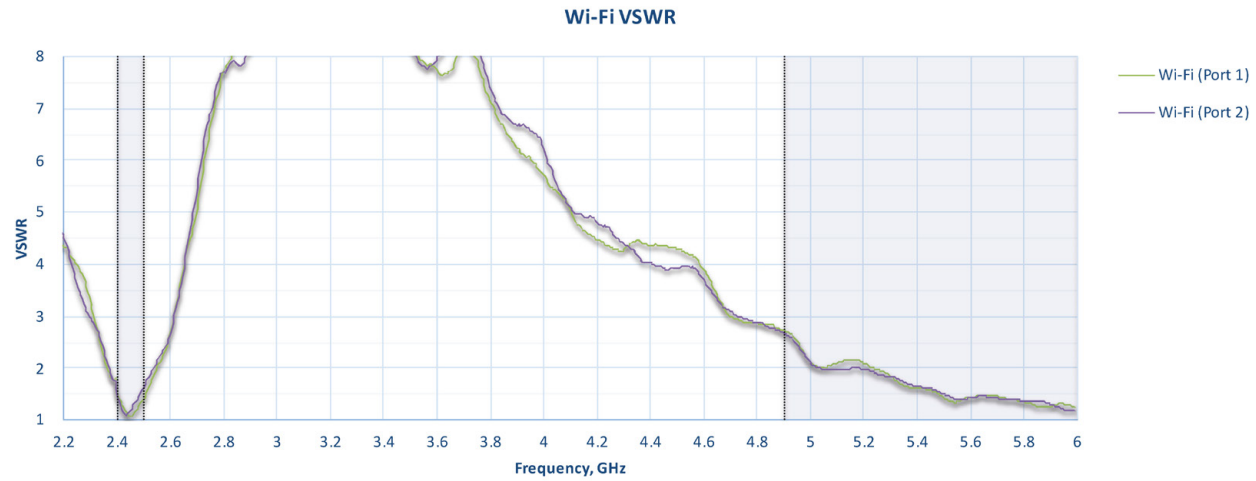
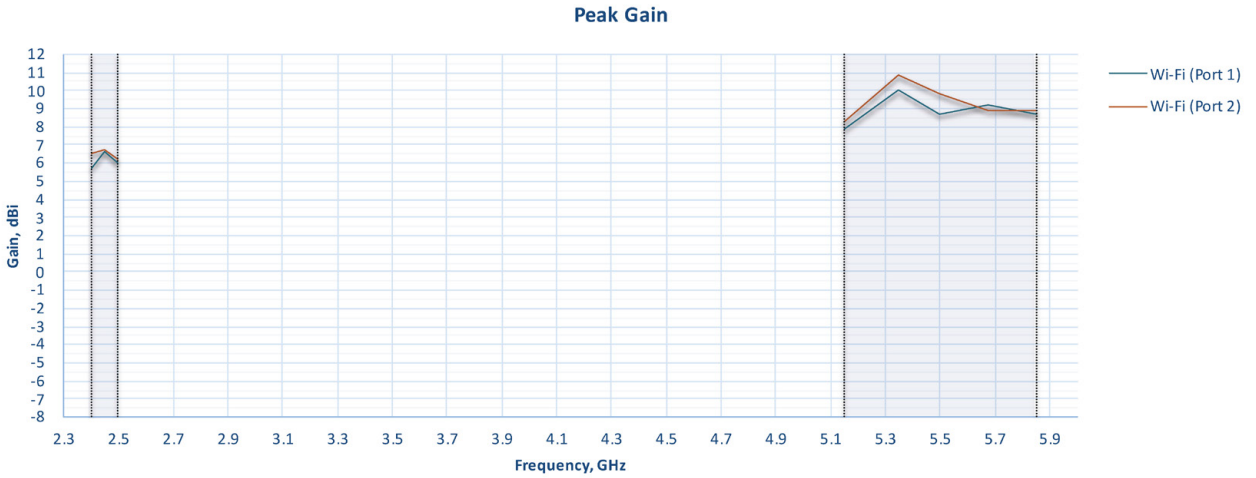
Wi-Fi Antenna Performance

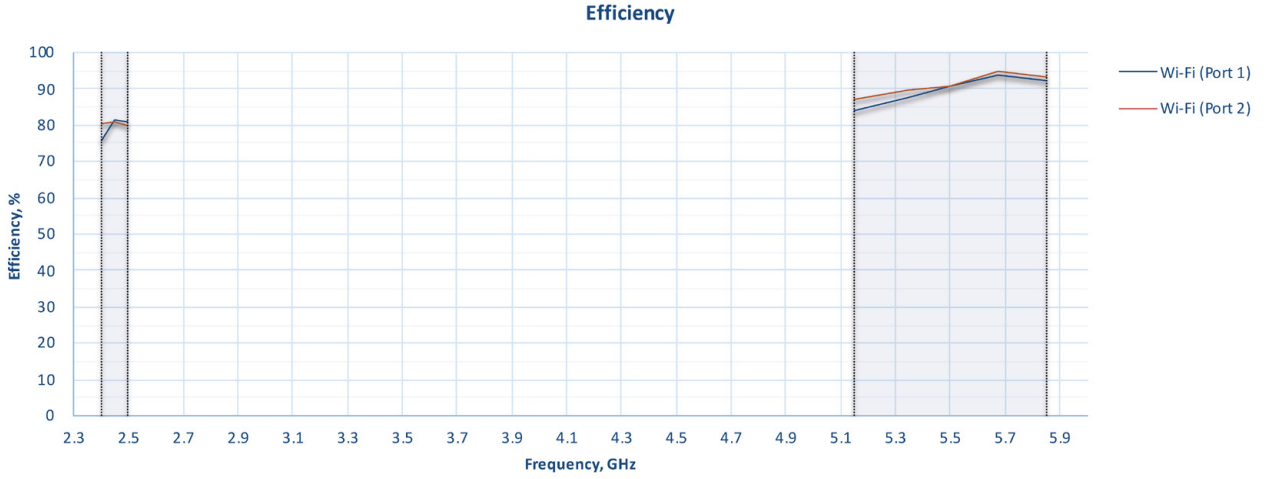
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain



Wi-Fi Antenna Efficiency



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Antenna MAX Duo

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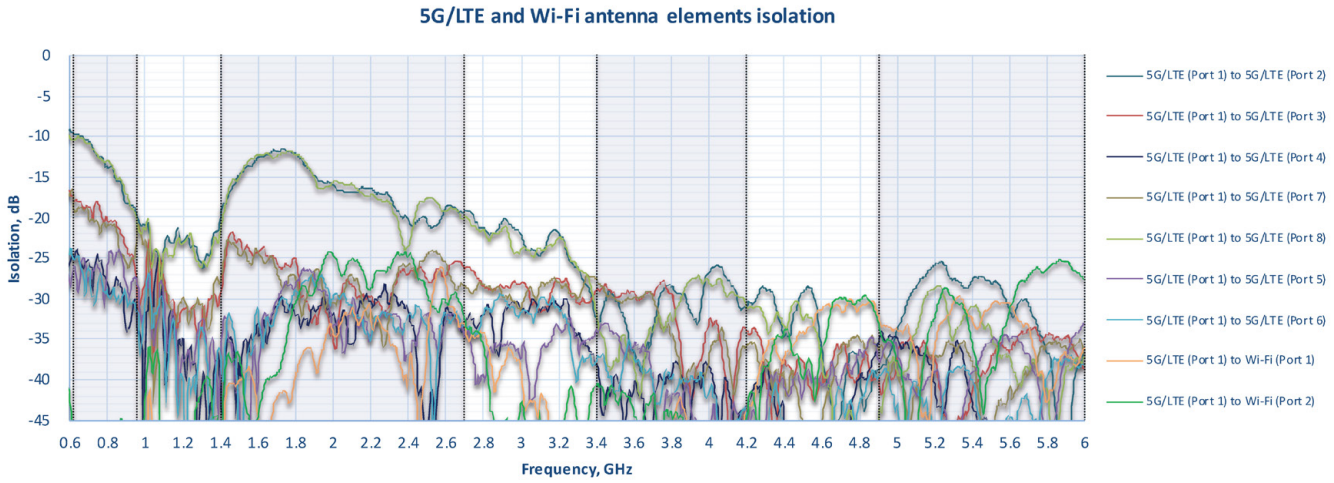
Cellular & Wi-Fi Antenna Performance

Cellular & Wi-Fi Antenna Isolation



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Antenna MAX Duo

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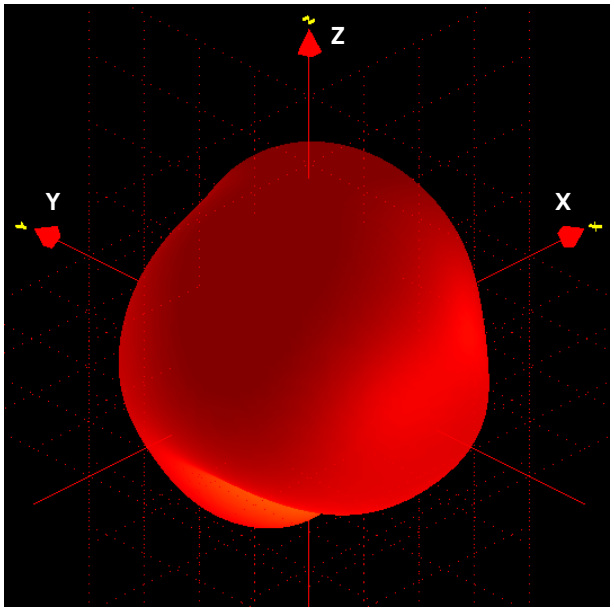
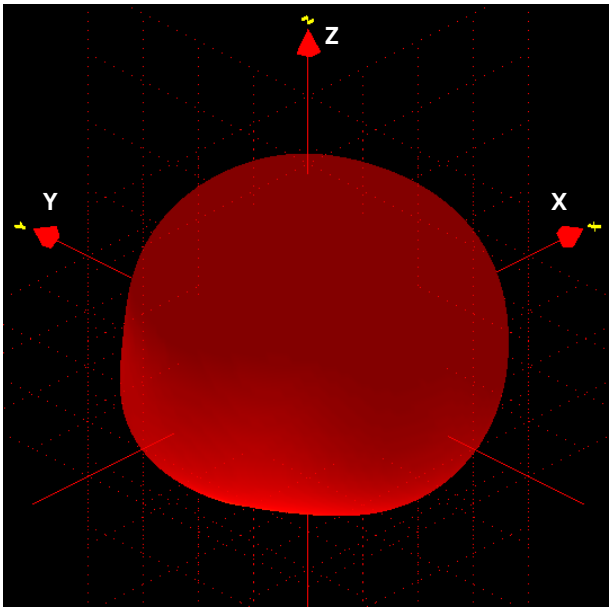
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

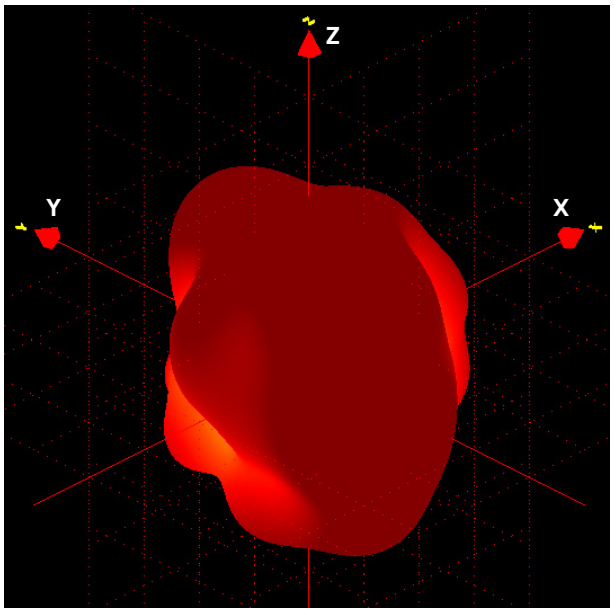
617 MHz



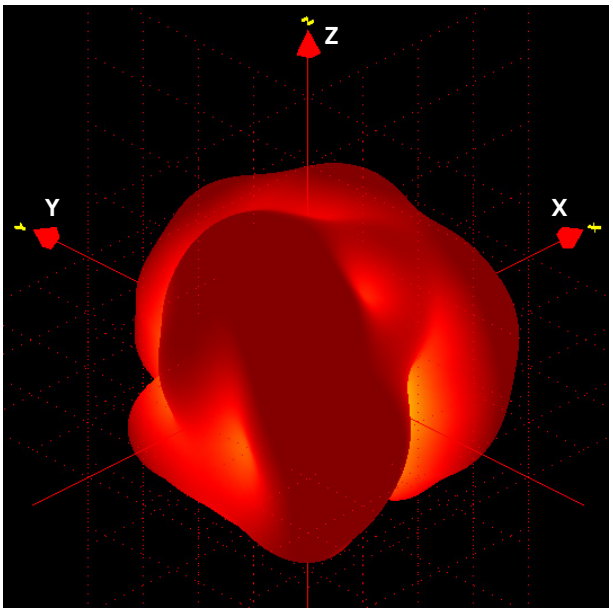
798 MHz



1496 MHz



1805 MHz



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Antenna MAX Duo

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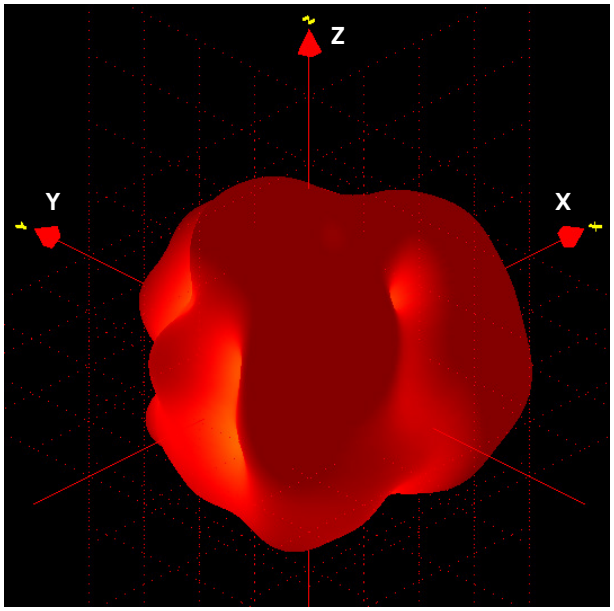
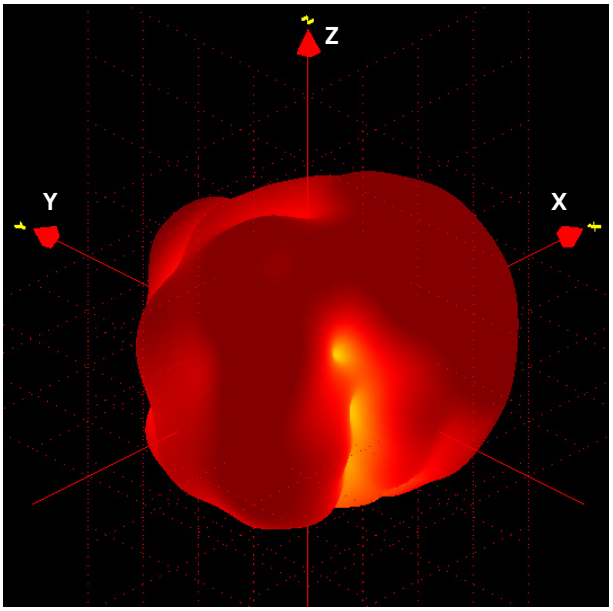
Cellular & Wi-Fi Antenna Performance

Typical Radiation Pattern

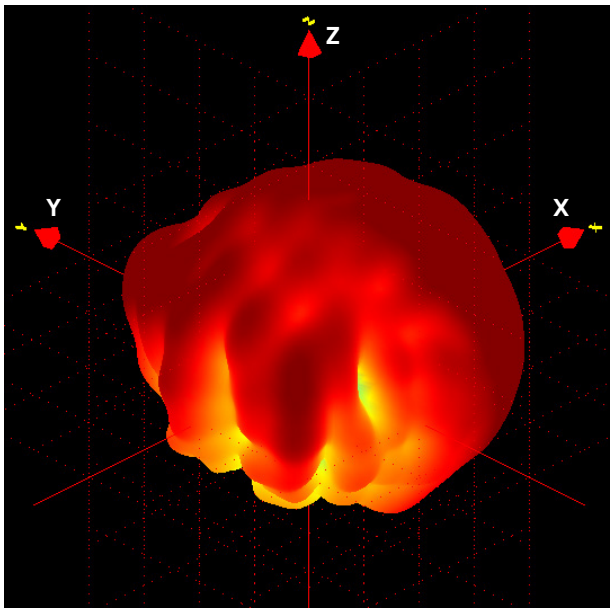
2110 MHz



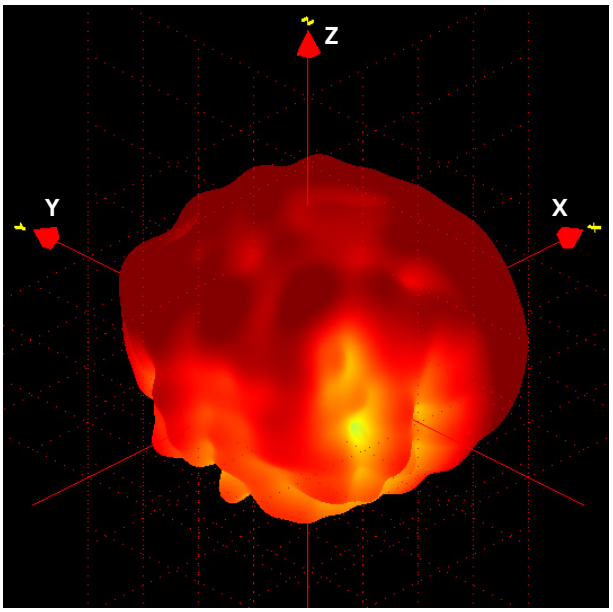
2400 MHz



3550 MHz



3800 MHz



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Antenna MAX Duo

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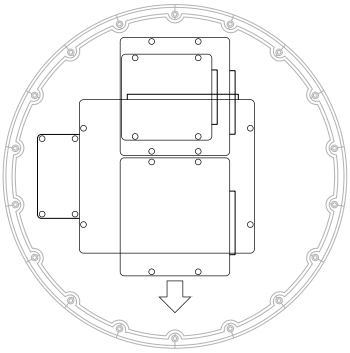
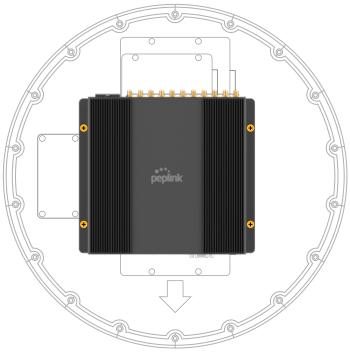
Installation Recommendation

Position Router

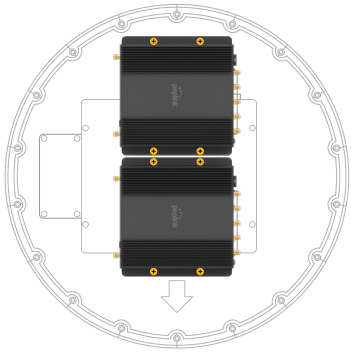


Silkscreen

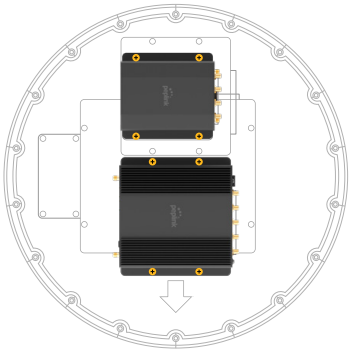
Make sure you align the router with the placement mark on the silkscreen.



BR2 Pro

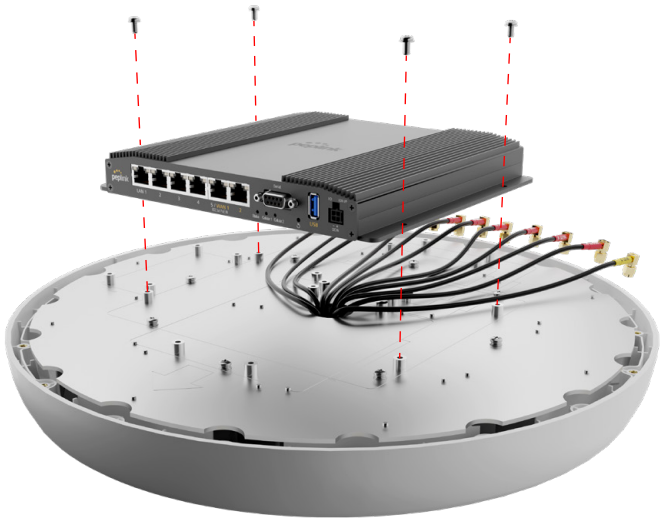


BR1 Pro 5G + BR1 Pro 5G

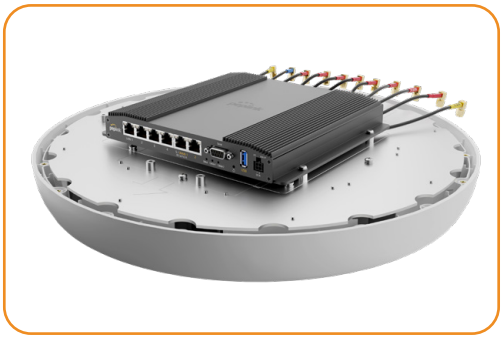


BR1 Pro 5G + BR1 Mini 5G

Install Router



Tighten the screws securely into the corresponding router's mounting holes.



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Antenna MAX Duo

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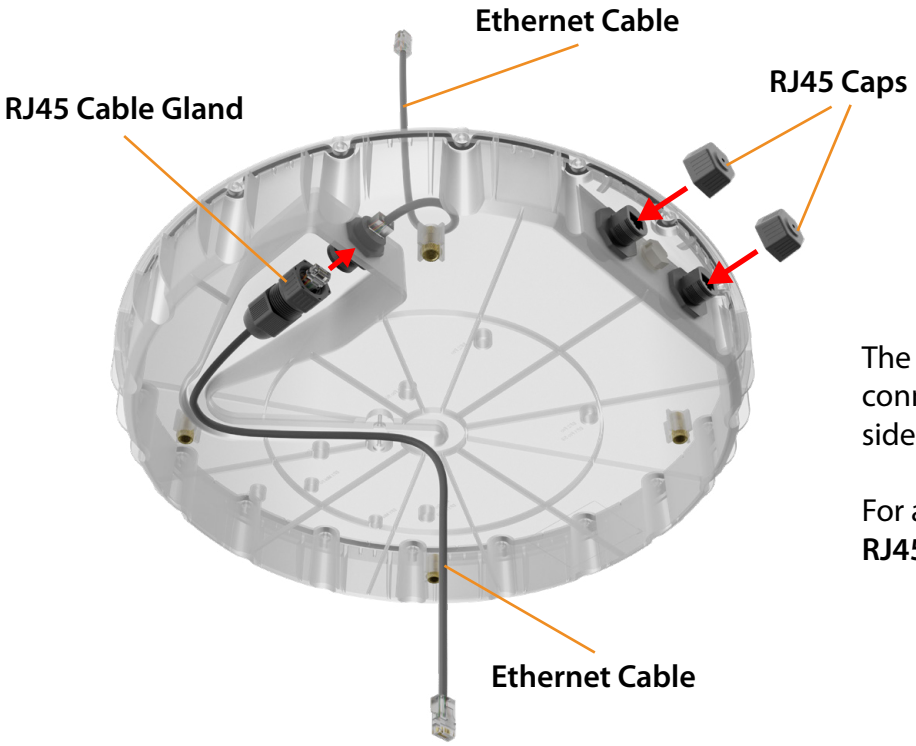
Installation Recommendation

Connect Cables to Router

Align the **Wi-Fi**, **Cellular** and **GPS** SMA cables with the corresponding ports on the router. Tighten the connector into the port securely in place.

Ethernet Cable



The Ethernet cable can be connected via the bottom or side cable gland on the device.

For any unused hole, use a **RJ45 Cap** to securely seal it.

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Antenna MAX Duo

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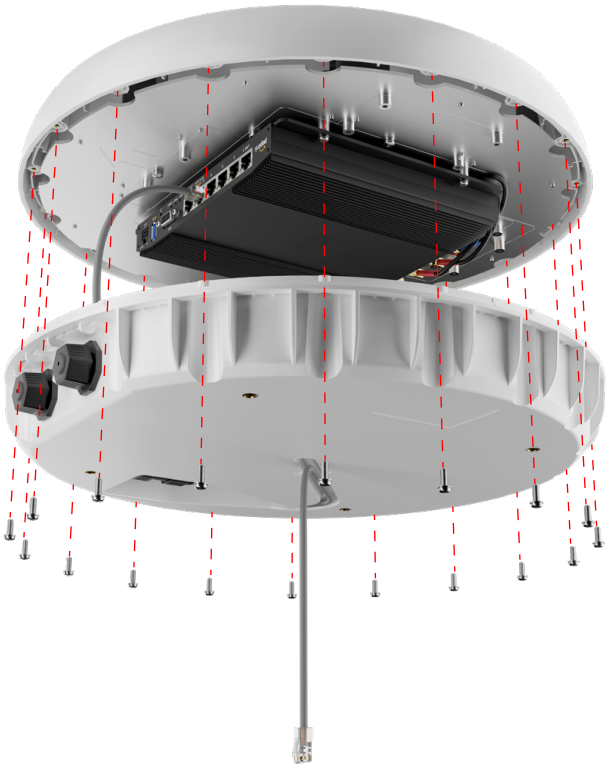
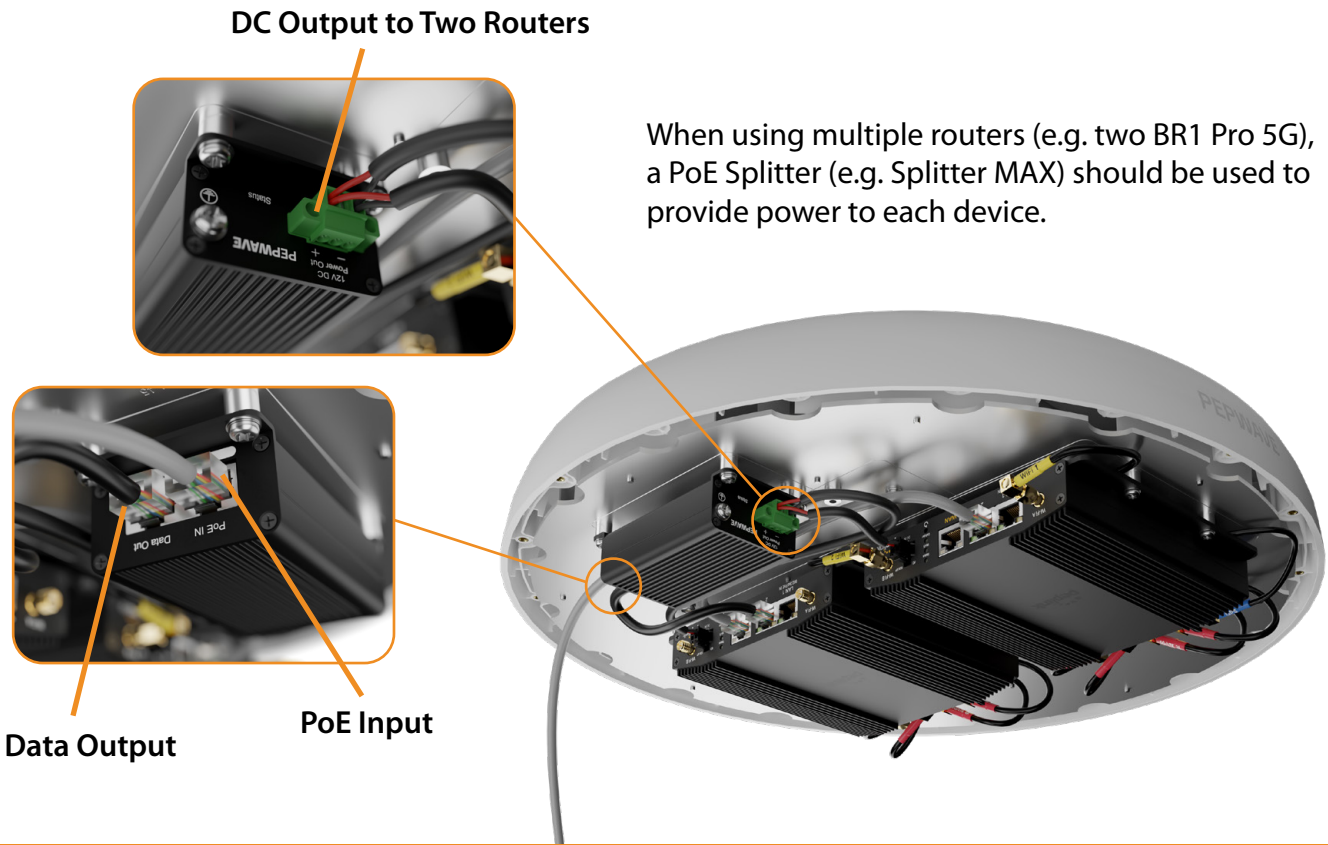
Installation Recommendation

Attach Bottom Cover



Then connect the Ethernet cable to the **Power over Ethernet (PoE) input port** of the router. After that, align the bottom cover with the top cover, secure it in place, and then tighten the screws.

Install PoE Splitter



When using multiple routers (e.g. two BR1 Pro 5G), a PoE Splitter (e.g. Splitter MAX) should be used to provide power to each device.

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Antenna MAX Duo

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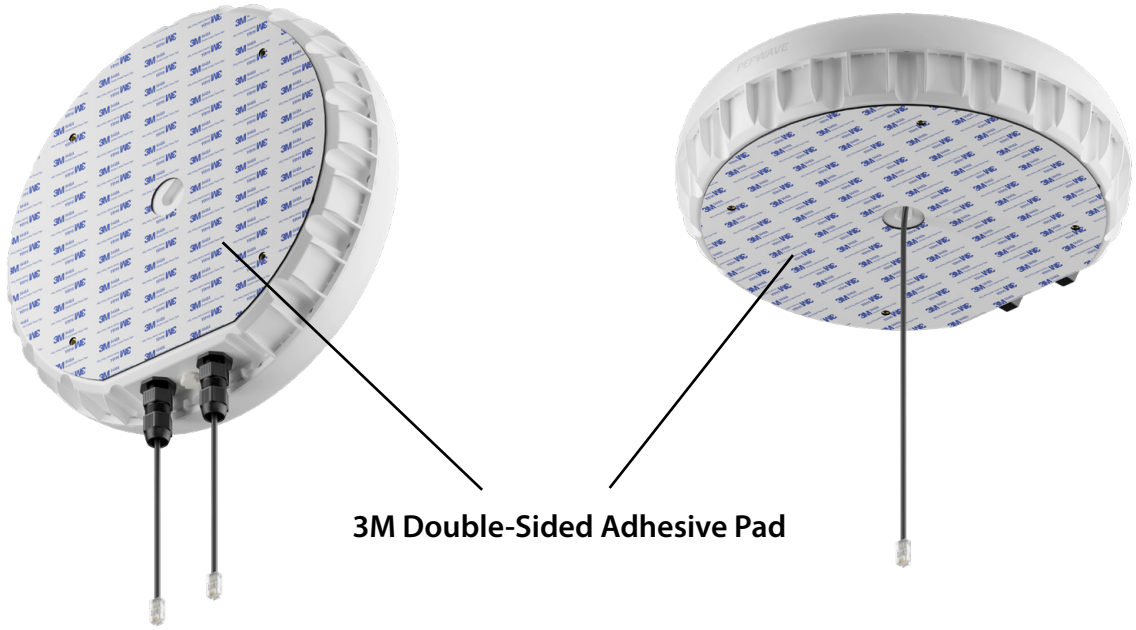
Installation Recommendation

Surface Mount



Pole Mount

Vertical Pole

Horizontal Pole

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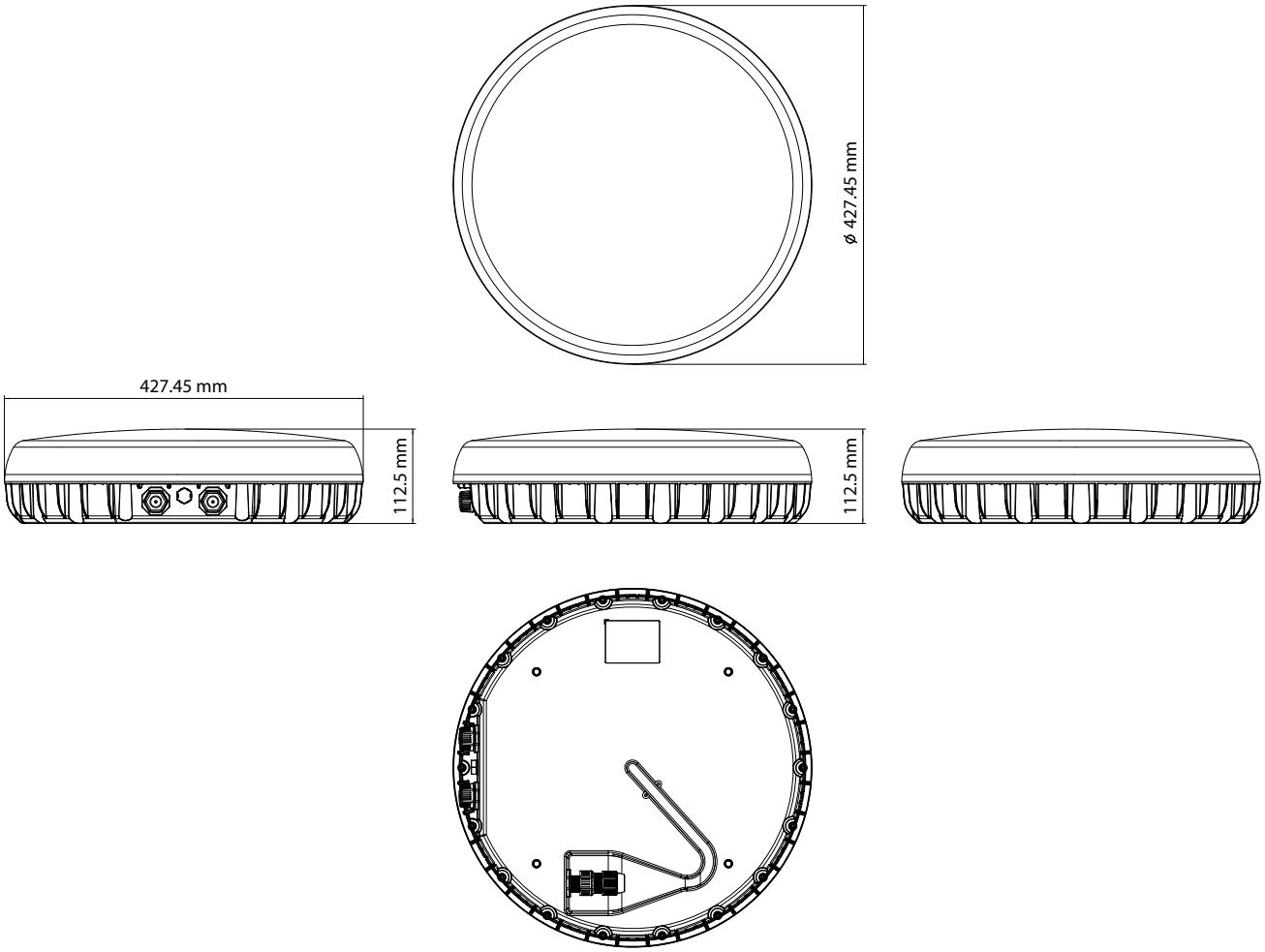
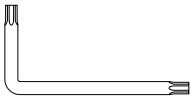
Packing List Information

Antenna

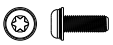




L-wrench for T20 bolts

Bolt
(8 pcs, T20 M4xL8)
Router

Bolt
(4 pcs, T20 M4xL8)
PoE

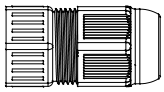


Bolt
(18 pcs, T20 M4xL12)
Cover

Rubber Support TNF-19
(5 pcs)

Rubber Support TF-039
(3 pcs)

RJ45 Caps
(2 pcs)



RJ45 Glands
(3 pcs)

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Antenna MAX Duo

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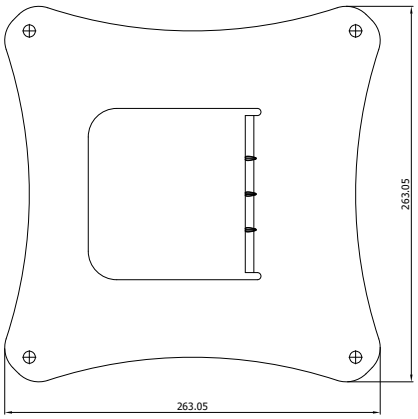
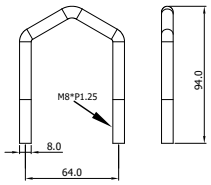
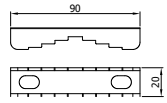
Packing List Information

L-Mount Mount Set





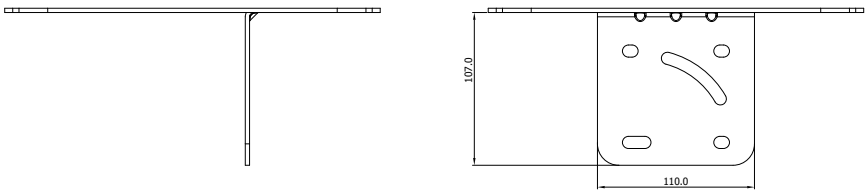
V-bolt
(2 pcs)



Bracket
(2 pcs)

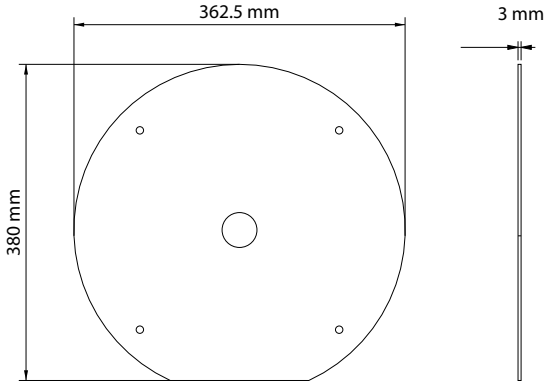
Hex Socket
(4pcs, H6, M8xL20)

V-bolt Nut
(4 pcs, M8)

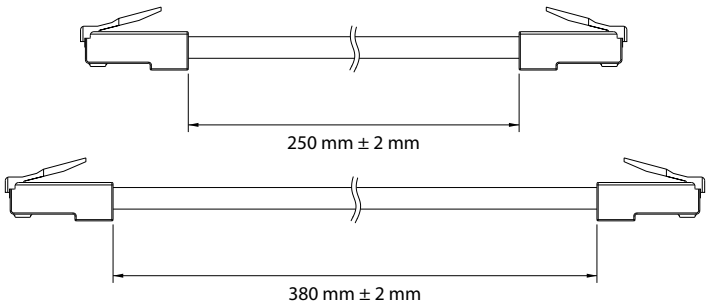


L-Mount

Adhesive Pad



Cables



Ethernet Cable

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