

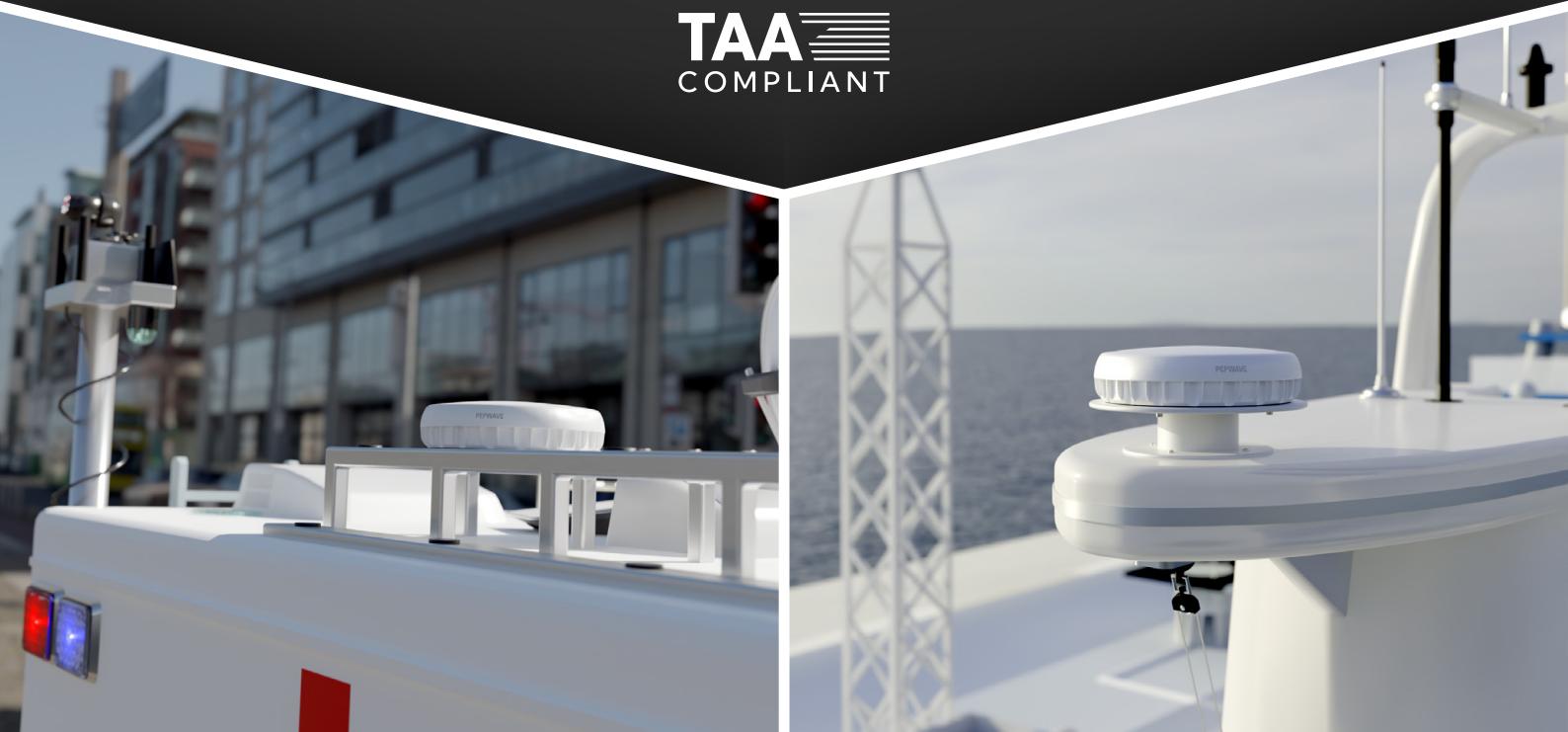


PEPWAVE

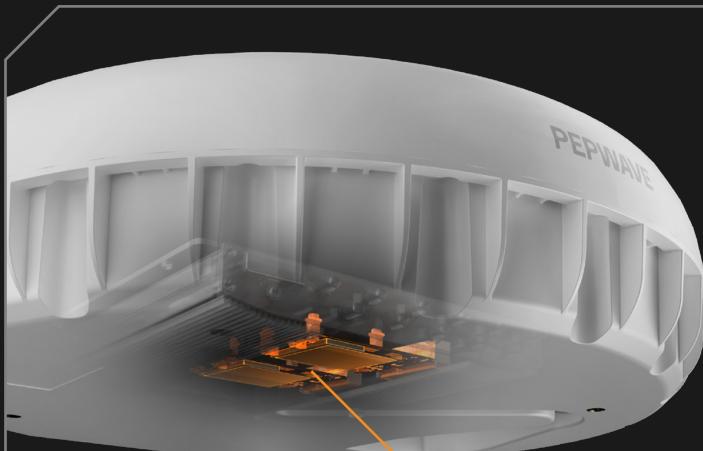


# Antenna MAX Duo

- **Twice the Connectivity. One Seamless Enclosure.** ●  
Integrated Dual-Modem or Dual-Router Antenna Housing



TAA  
COMPLIANT



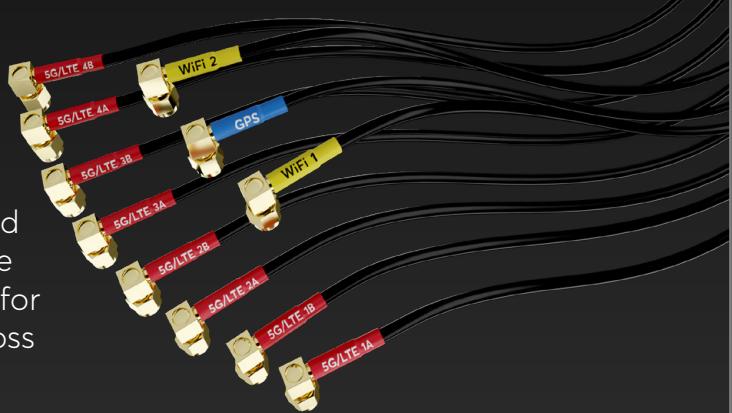
## MAXed Out Synergy

Two Modems.  
One Setup.  
Unlimited Possibilities.

2x

5G/LTE  
Modem

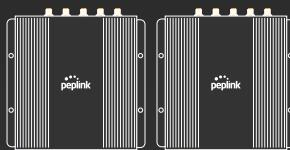
Featuring **8x 5G/LTE**, **2x Wi-Fi**, and **GPS** antenna elements, the Antenna MAX Duo delivers reliable connectivity using **two modems** housed in a single, ruggedized enclosure. The integrated design removes the need for external RF cabling, reducing signal loss and setup complexity.



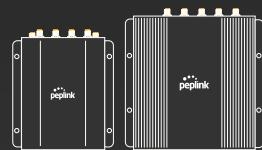
- Supported dual-modem Peplink router setups include:



[ BR2 Pro ]



[ 2x BR1 Pro 5G ]\*

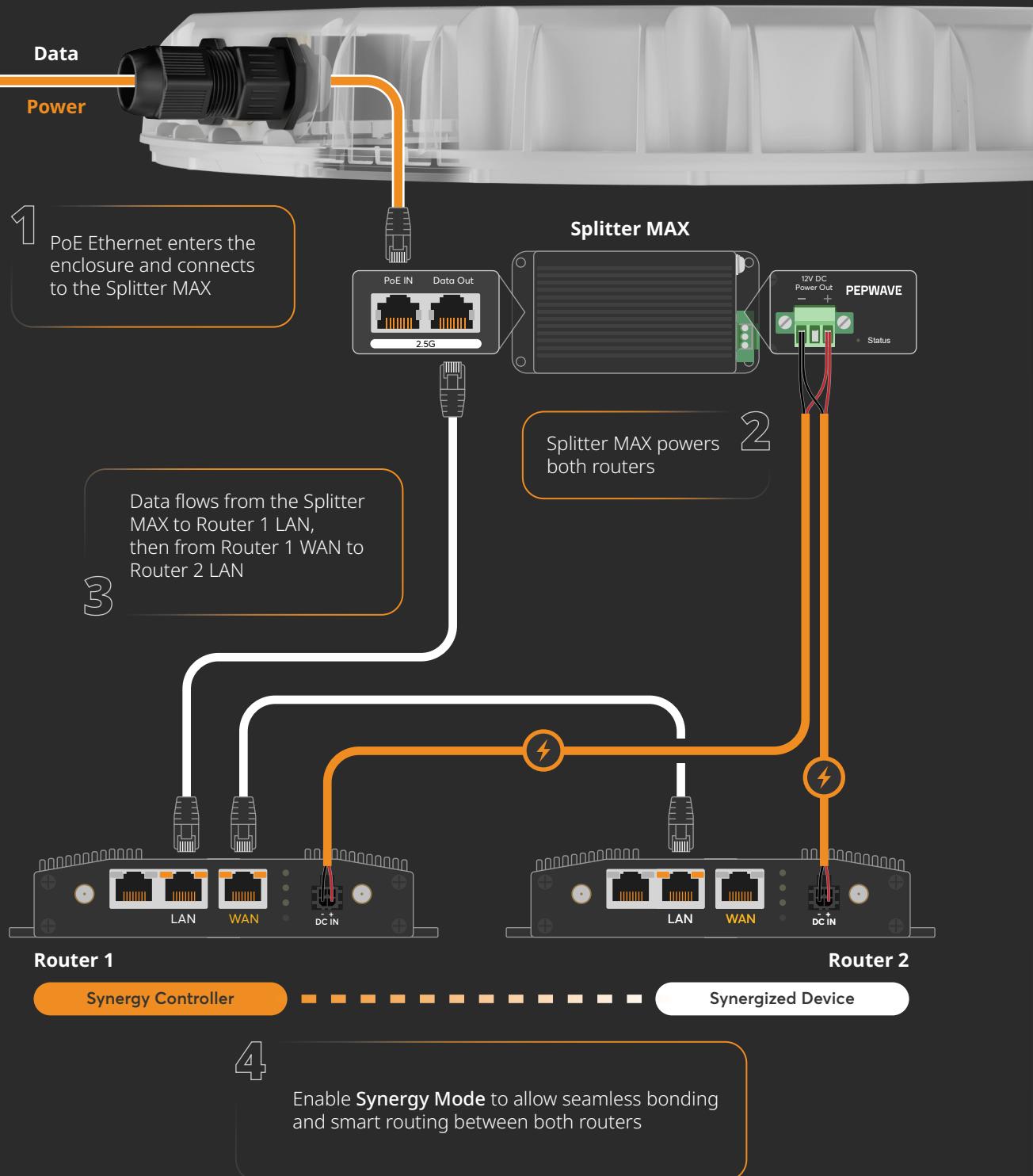


[ BR1 Mini 5G + BR1 Pro 5G ]\*

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

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:





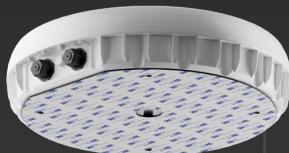
## MAXed Out Ruggedness

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.

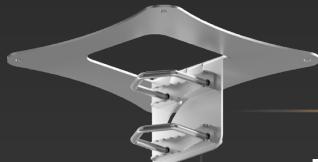
## MAXed Out Flexibility

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:

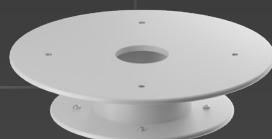


Surface Mount



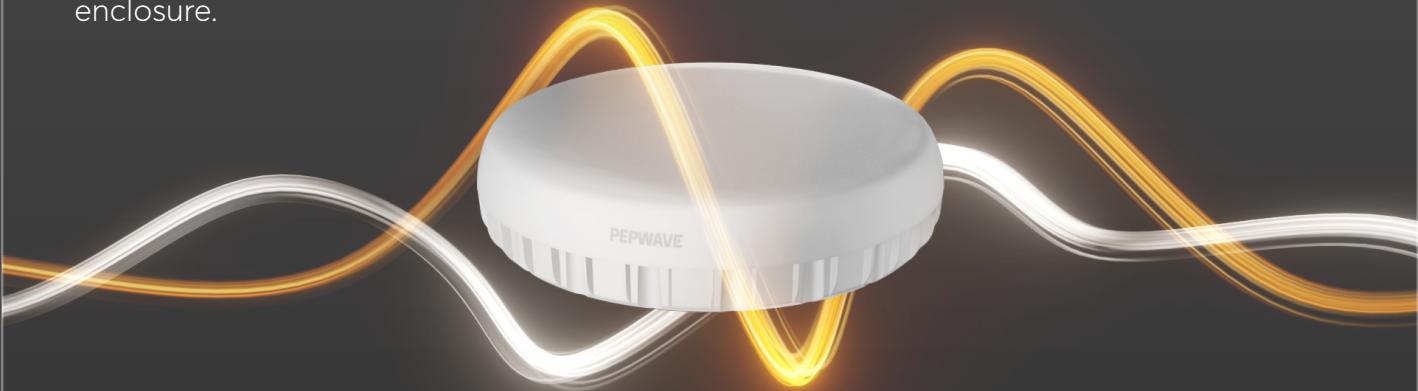
Pole Mount  
(vertical or horizontal)

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

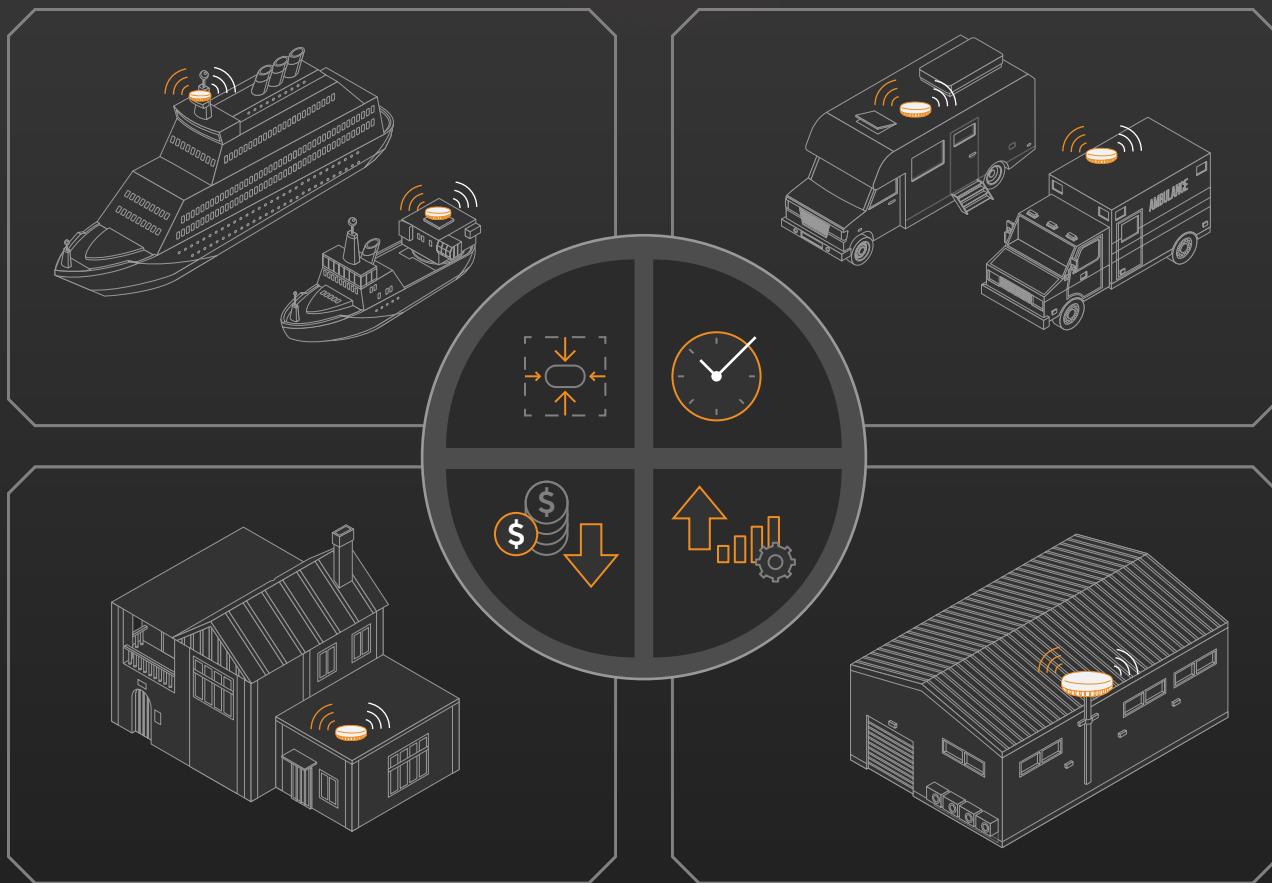


## MAXed Out Savings

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.





## Specifications

Cellular		Wi-Fi	
<b>Antenna Elements</b>	8 elements	<b>Antenna Elements</b>	2 elements
<b>Peak Gain &amp; Frequencies</b>	5.6dBi: 617-960MHz 6.5dBi: 1410-2700MHz 8.1dBi: 3400-4400MHz 7.4dBi: 5000-6000MHz	<b>Peak Gain &amp; Frequencies</b>	5.4dBi: 2400-2500MHz 7.4dBi: 5000-6000MHz
<b>VSWR</b>	< 2.5 over 95% of the band	<b>VSWR</b>	< 2.5
<b>Feed Power Handling</b>	10W	<b>Feed Power Handling</b>	10W
<b>Input Impedance</b>	50 Ω	<b>Input Impedance</b>	50 Ω
<b>Polarisation</b>	Linear	<b>Polarisation</b>	Linear
<b>Connectors</b>	Right angle SMA male	<b>Connectors</b>	Right angle RP-SMA male
GPS			
<b>Frequency Range</b>	1575-1602 MHz		
<b>Peak Gain</b>	0.9dBi@1575MHz 0.8dBi@1602MHz		
<b>VSWR</b>	< 2.0		
<b>Gain: LNA</b>	27 ±3dB		
<b>Noise Figure</b>	2.5dB		
<b>Operating Voltage</b>	3.3V		
<b>Power Consumption</b>	10 ±3.0mA		
<b>Connectors</b>	Right angle SMA male		

Specifications are subject to change without notice.

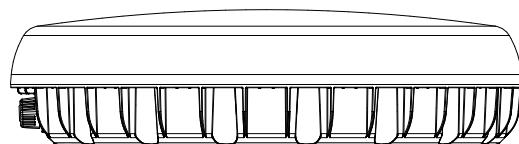
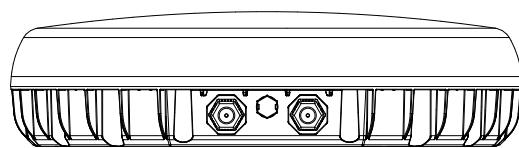
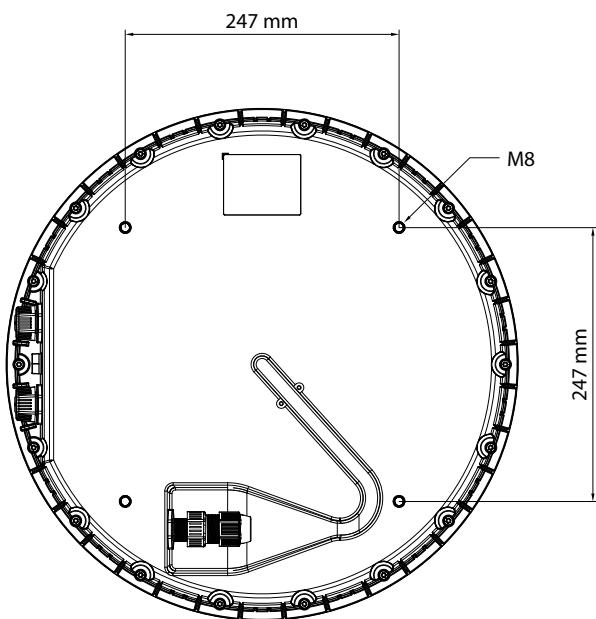
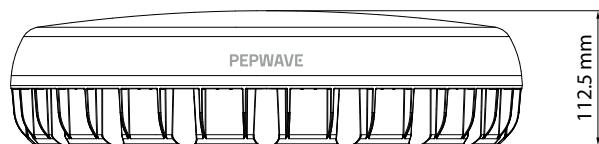
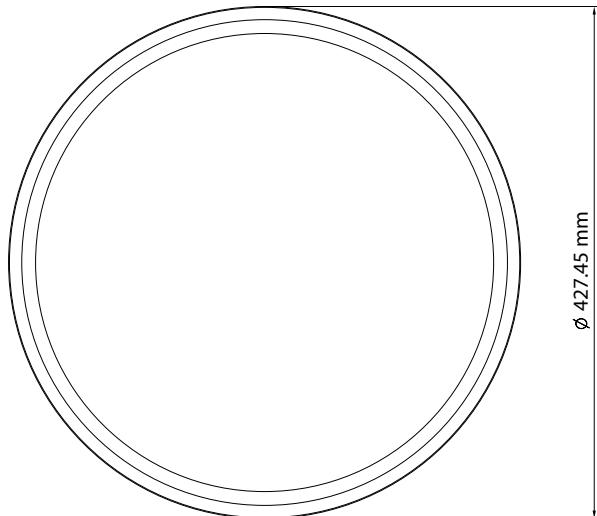
## Specifications

Mounting		Mechanical	
<b>Supported Types</b>	Surface, Pole	<b>Product Dimensions</b>	4.82" / 122.5 mm - Height 16.83" / 427.5 mm - Diameter
Package Contents		<b>Packaged Dimensions</b>	21.97" x 25.51" x 16.46" / 558 x 648 x 418 mm
<b>Package Contents</b>	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)	<b>Enclosure Material</b>	UV stable PC
Environmental, Compliance			
<b>IP Rating</b>	IP67	<b>Compliance</b>	ROHS, REACH, WEEE
<b>Operating Temperature</b>	-40° - 176°F / -40° - 80°C	<b>Enclosure Flammability</b>	UL 94 V-0 (1.47 mm)
<b>Storage Temperature</b>	-40° - 176°F / -40° - 80°C	<b>UV resistance</b>	UL 746C (F1 long-term UV exposure)
		<b>Salt Spray</b>	MIL-STD 810F/ASTM B117

## Ordering Information

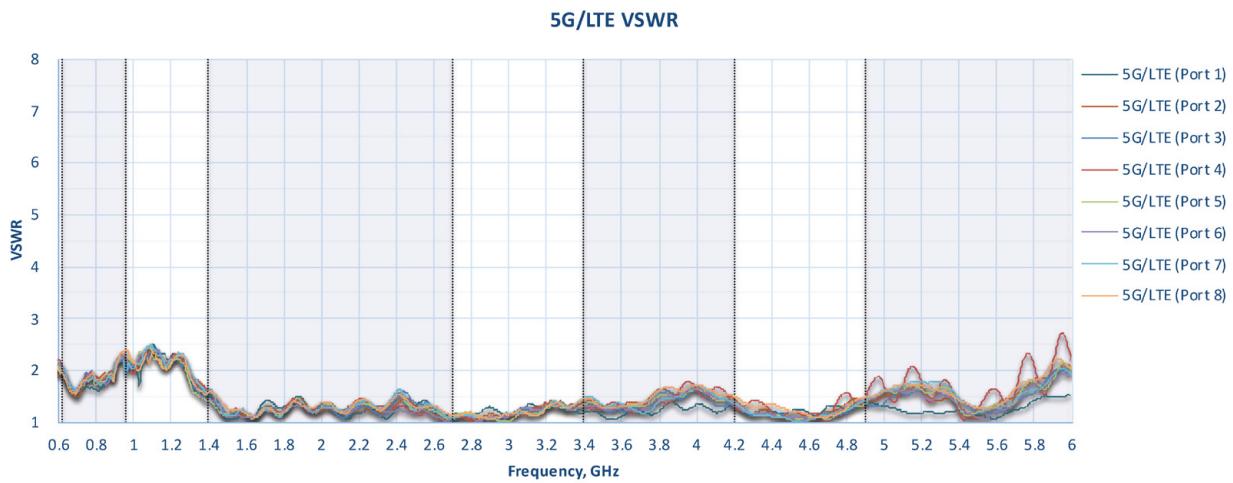
Product Code	Description
ANT-MAX-DUO	8xLTE/5G, 2x Wi-Fi, 1xGPS 600-6000MHz, IP67, SMA male (Cellular, GPS), RP-SMA male (Wi-Fi), White

## Technical Drawing

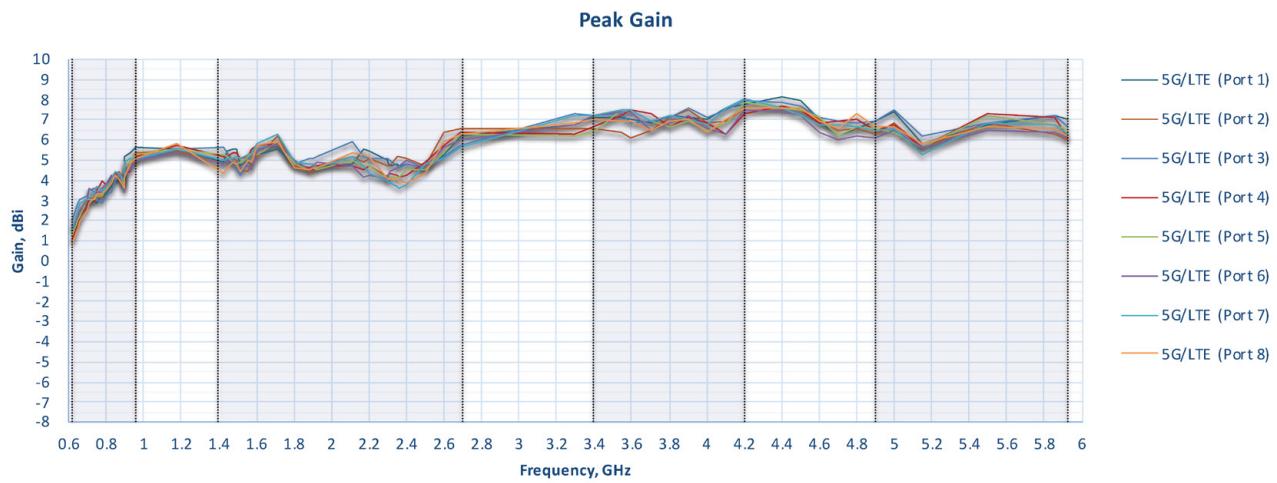


## Cellular Antenna Performance

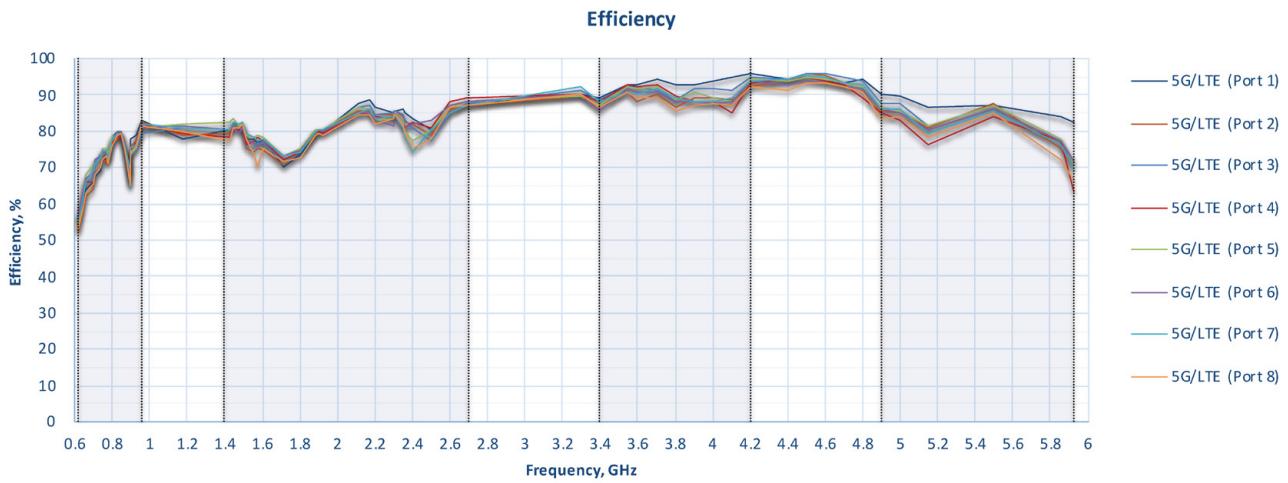
### Cellular Antenna VSWR



### Cellular Antenna Gain



### Cellular Antenna Efficiency

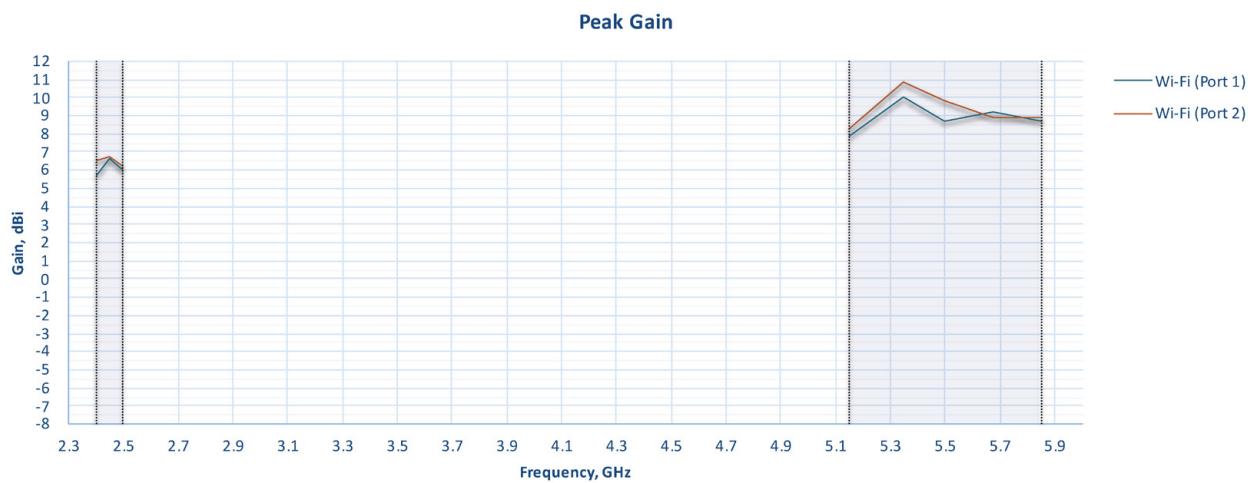


## Wi-Fi Antenna Performance

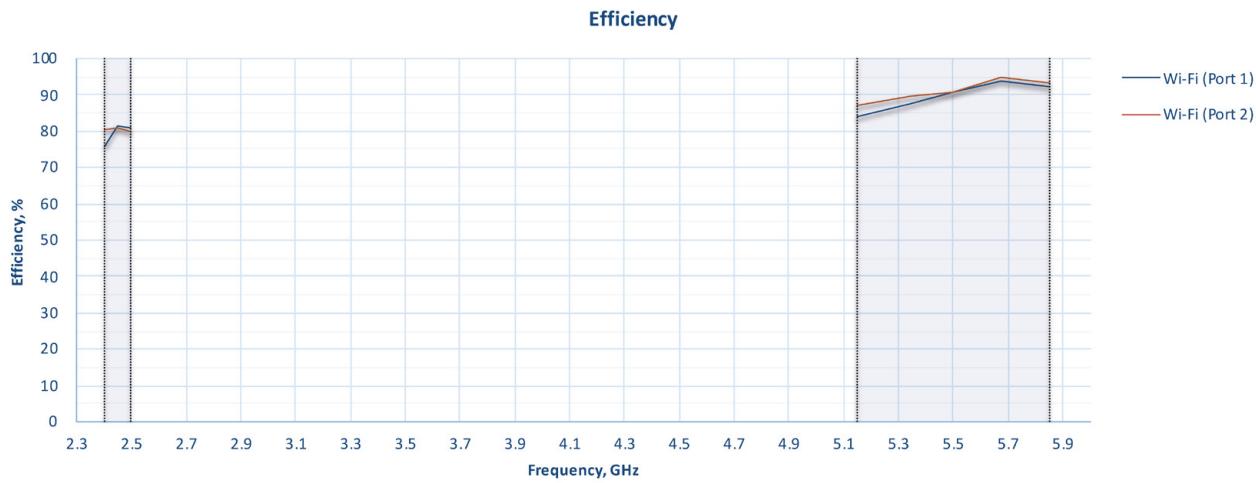
### Wi-Fi Antenna VSWR



### Wi-Fi Antenna Gain



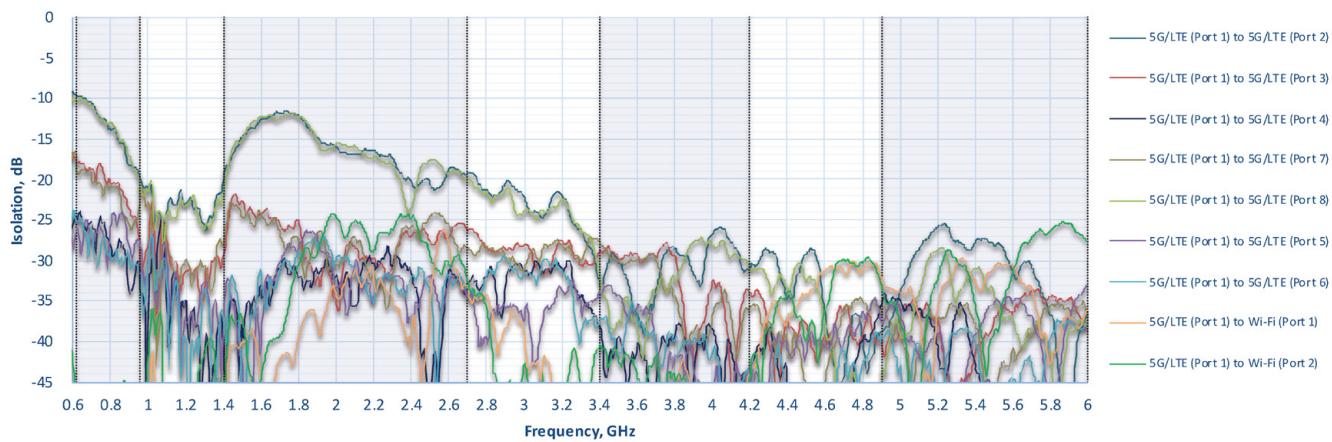
### Wi-Fi Antenna Efficiency



## Cellular & Wi-Fi Antenna Performance

### Cellular & Wi-Fi Antenna Isolation

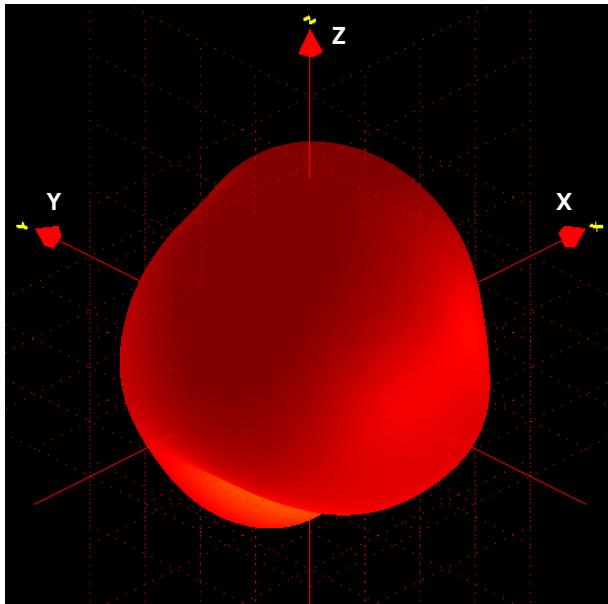
5G/LTE and Wi-Fi antenna elements isolation



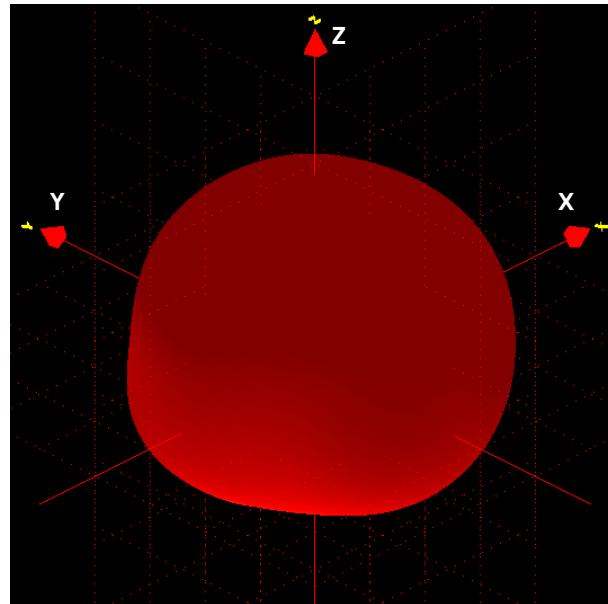
## Cellular & Wi-Fi Antenna Performance

### Typical Radiation Pattern

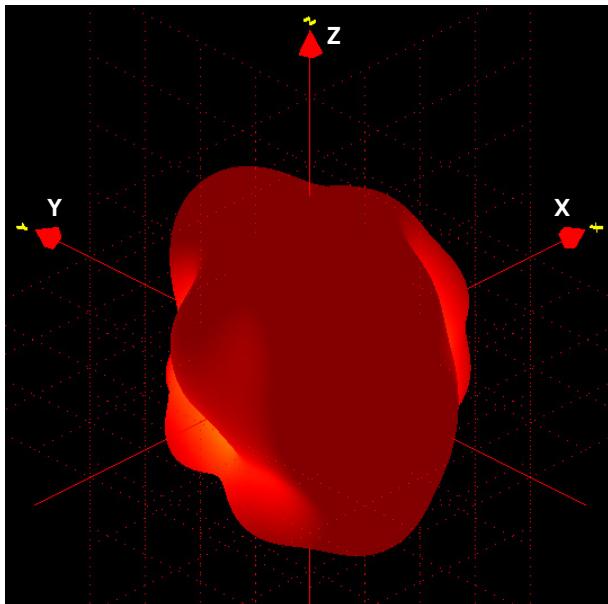
617 MHz



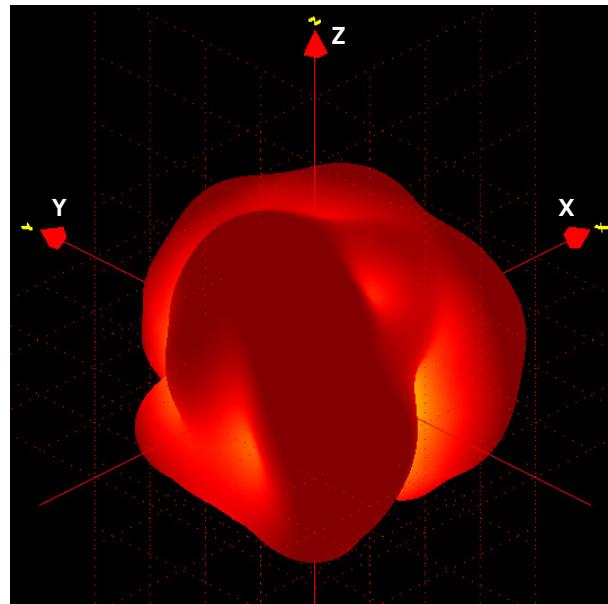
798 MHz



1496 MHz



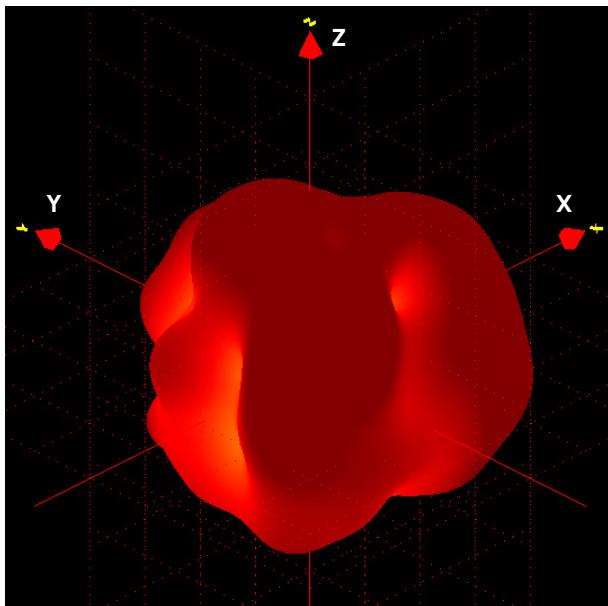
1805 MHz



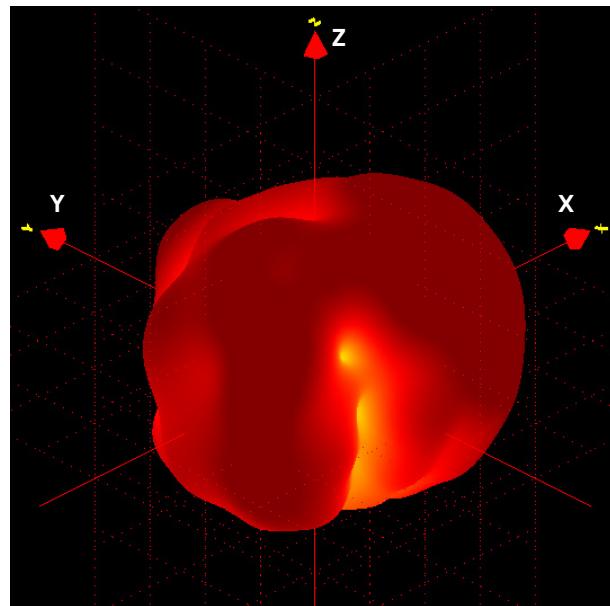
## Cellular & Wi-Fi Antenna Performance

### Typical Radiation Pattern

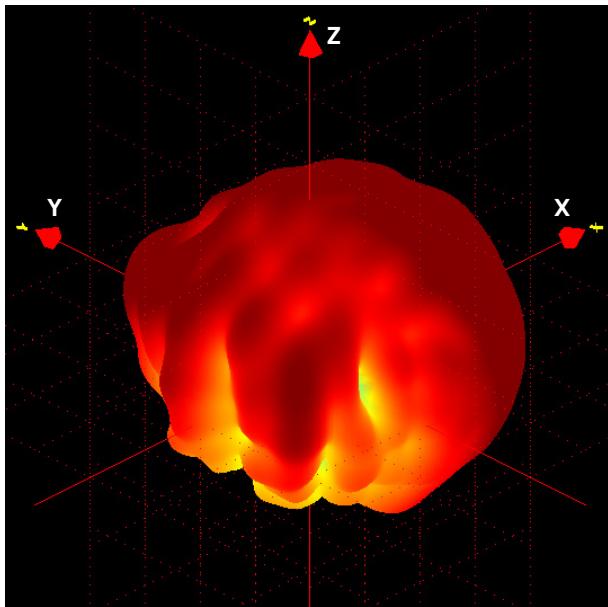
2110 MHz



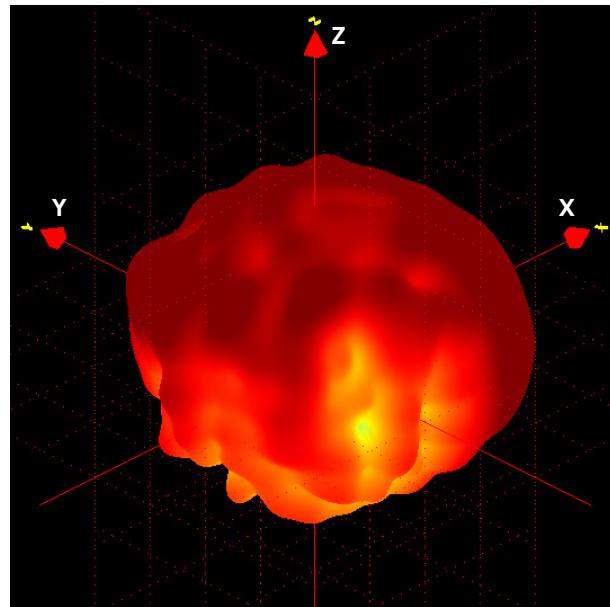
2400 MHz



3550 MHz

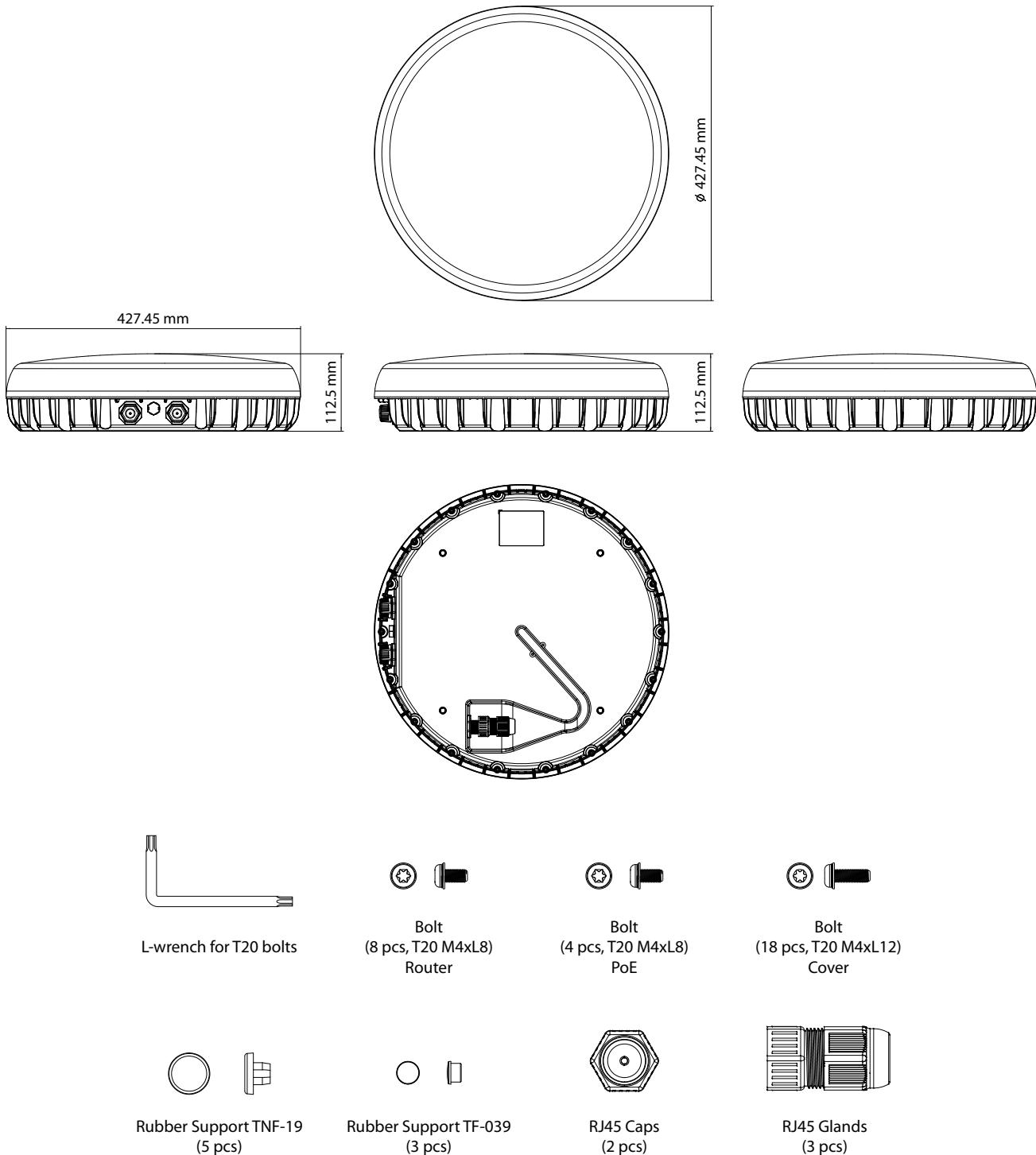


3800 MHz



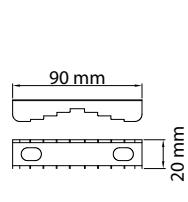
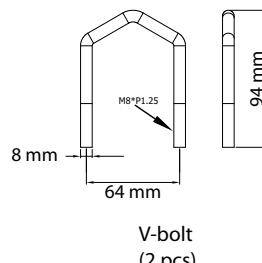
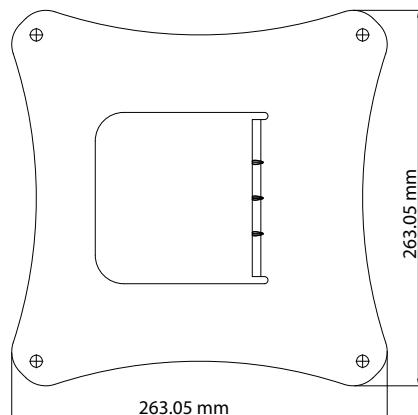
## Packing List Information

### Antenna



## Packing List Information

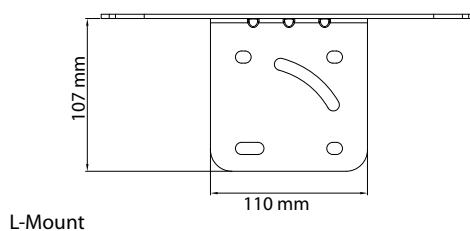
### L-Mount Mount Set



Hex Socket  
(4pcs, H6, M8xL20)

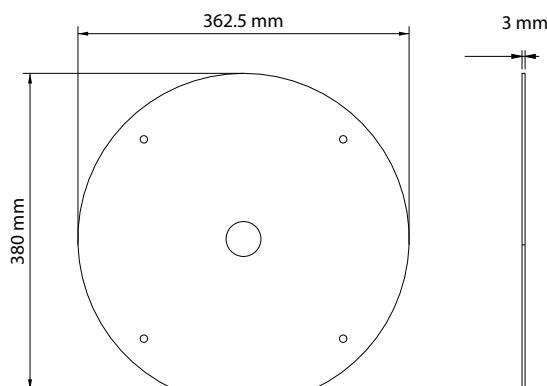


V-bolt Nut  
(4 pcs, M8)

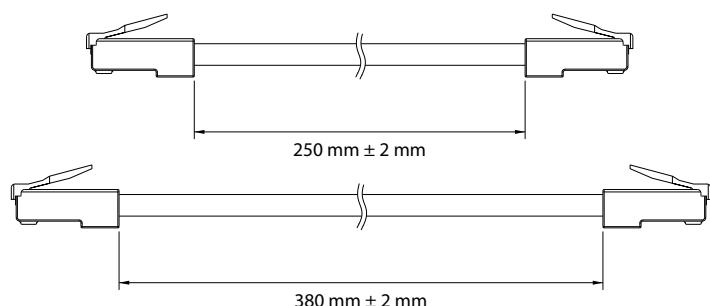


L-Mount

### Adhesive Pad



### Cables



Ethernet Cable