

# Slim 22G

## Applications

- | Recreational Vehicles
- | Transportation Connectivity
- | Home / Office



## Ultra Wide Bandwidth

Wide frequency range (600-6000MHz) supporting LTE and 5G connectivity.

## Built for 5G

Omni-directional 2x2 MIMO mobile antenna for the best performance.

## Wi-Fi

2x2 MIMO dual band (2.4GHz & 5GHz) high gain omnidirectional antennas for local coverage.





## Low Profile Design

High performance in a small size and durable housing.

## Easy Installation

Can be mounted on a wall window or wall or hidden under a vehicle dashboard.



## Specification

### Cellular

<b>Antenna Elements</b>	2 elements
<b>Peak Gain &amp; Frequencies</b>	4.1dBi: 617-960MHz 4.3dBi: 1710-2700MHz 6.0dBi: 3400-4200MHz 7.5dBi: 5000-6000MHz
<b>VSWR</b>	<2.5 over 90% of the band
<b>Feed Power Handling</b>	10W
<b>Input Impedance</b>	50 Ω
<b>Polarisation</b>	Linear

### GPS

<b>Frequency Range</b>	1561-1602 MHz
<b>Peak Gain</b>	0.5dBi @ 1575MHz 1.6dBi @ 1602MHz
<b>VSWR</b>	< 2
<b>Output Return Loss</b>	10dB max
<b>Gain: LNA</b>	28 ±3dB
<b>Noise Figure</b>	1.5dB max at 3.3V
<b>Operating Voltage</b>	3.3V
<b>Power Consumption</b>	8.5 ±2.5mA at 3.3V

### Wi-Fi

<b>Antenna Elements</b>	2 elements
<b>Peak Gain &amp; Frequencies</b>	5.5dBi: 2400-2500MHz 5.7dBi: 5000-6000MHz
<b>VSWR</b>	< 2.0
<b>Feed Power Handling</b>	10W
<b>Input Impedance</b>	50 Ω
<b>Polarisation</b>	Linear

### Cable (Cellular / Wi-Fi)

<b>Type</b>	CFD-200 (Cellular, Wi-Fi)
<b>Loss</b>	0.33 dB/m @ 900 MHz 0.49 dB/m @ 2000 MHz 0.55 dB/m @ 2500 MHz 0.87 dB/m @ 5800 MHz
<b>Diameter</b>	0.2" / 5.0mm
<b>Jacket</b>	Half matt PVC, UV resistant
<b>Termination</b>	SMA male and RP-SMA male

### Cable (GPS)

<b>Type</b>	RG-174 (GPS)
<b>Loss</b>	3.4 dB/m @ 1000 MHz 4.9 dB/m @ 1800 MHz
<b>Diameter</b>	0.1" / 2.7mm
<b>Jacket</b>	Half matt PVC, UV resistant
<b>Termination</b>	SMA male

## Specification

### Mounting

**Supported Types** Window, wall

### Package contents

**Antenna** Slim 22G

**Accessories** Velcro strip (hook and loop fastener)  
(4pcs, length 4.7' / 120mm)

### Mechanical

**Product Dimensions** 7.09"x5.12"x0.59" / 180x130x15mm

**Packaged Dimensions** 9.61"x3.15"x9.84" / 244x80x250mm

**Enclosure Material** UV stable PC

**Color** Black

### Environmental, compliance

**IP Rating** IP55

**Operating Temperature** -40° - 176°F /  
-40° - 80°C

**Storage Temperature** -40° - 176°F /  
-40° - 80°C

**Compliance** ROHS, REACH, WEEE

**Enclosure Flammability** UL 94 HB

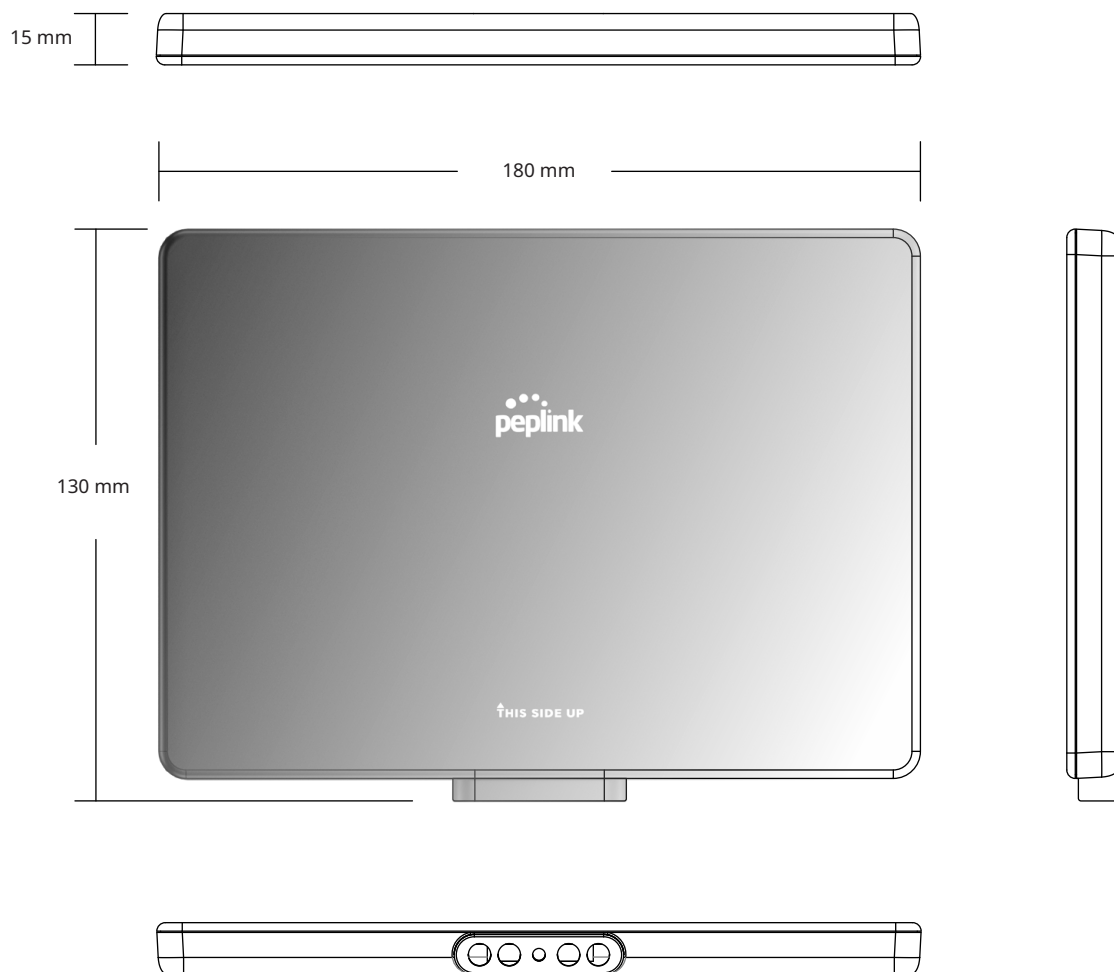
**Cable Flammability** UL 758 (VW-1)

**UV Resistance** UL 746C (F1 long-term UV exposure)

## Ordering Information

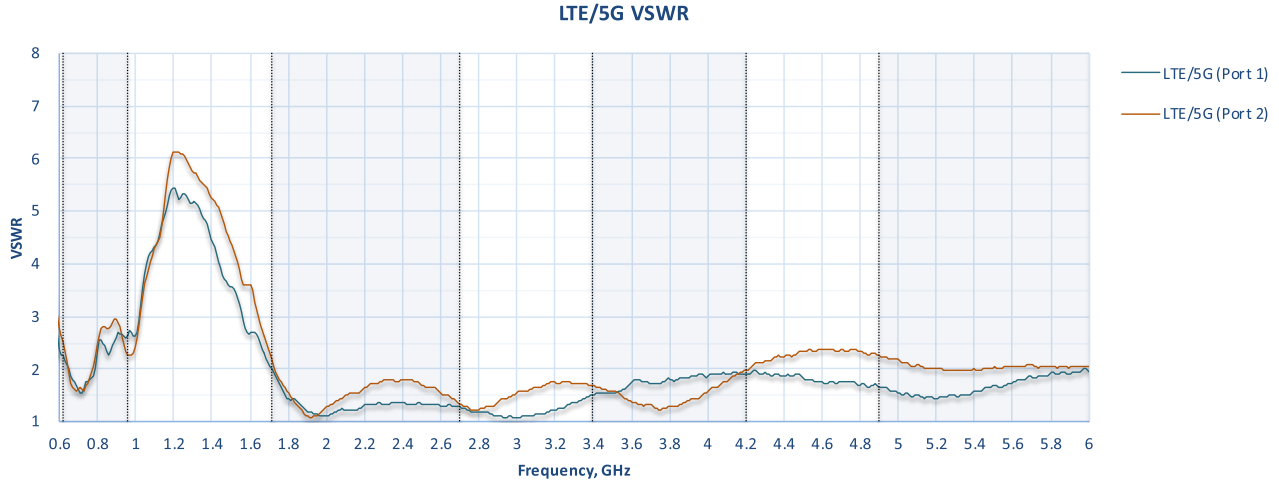
Product Code	Description
ANT-SLM-22G-S-B-6	2xLTE/5G, 2x Wi-Fi, 1xGPS 600-6000MHz, SMA, Black, 6.5 ft / 2m

## Technical Drawing

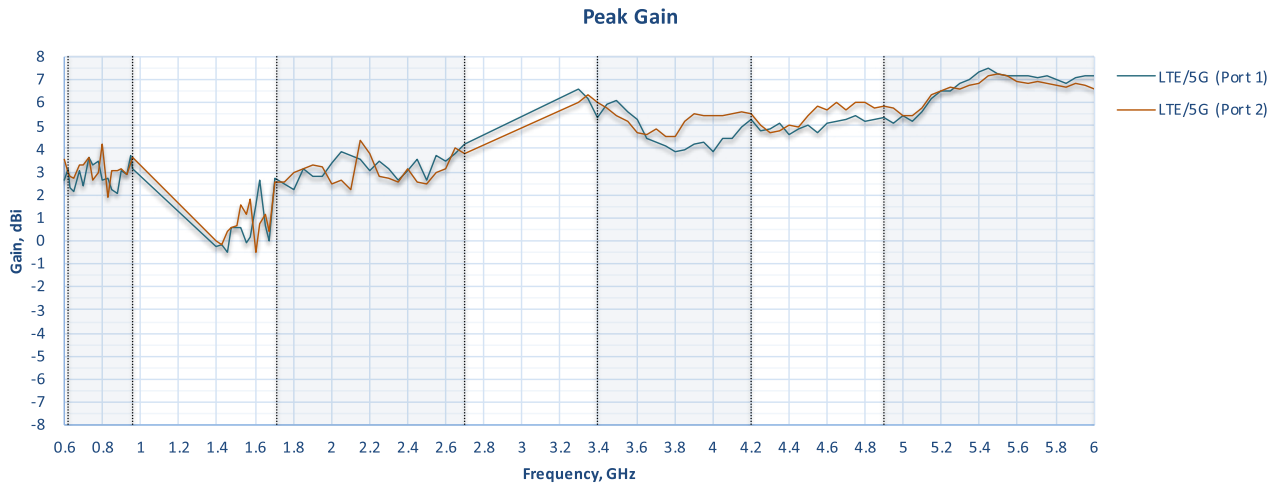


## Cellular Antenna Performance

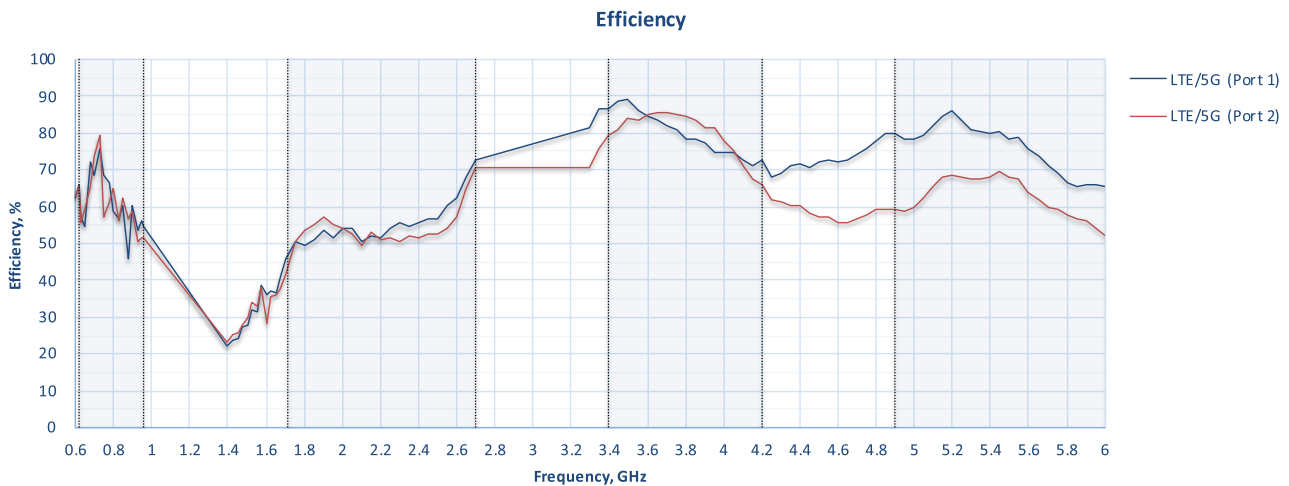
### Cellular Antenna VSWR



### Cellular Antenna Gain

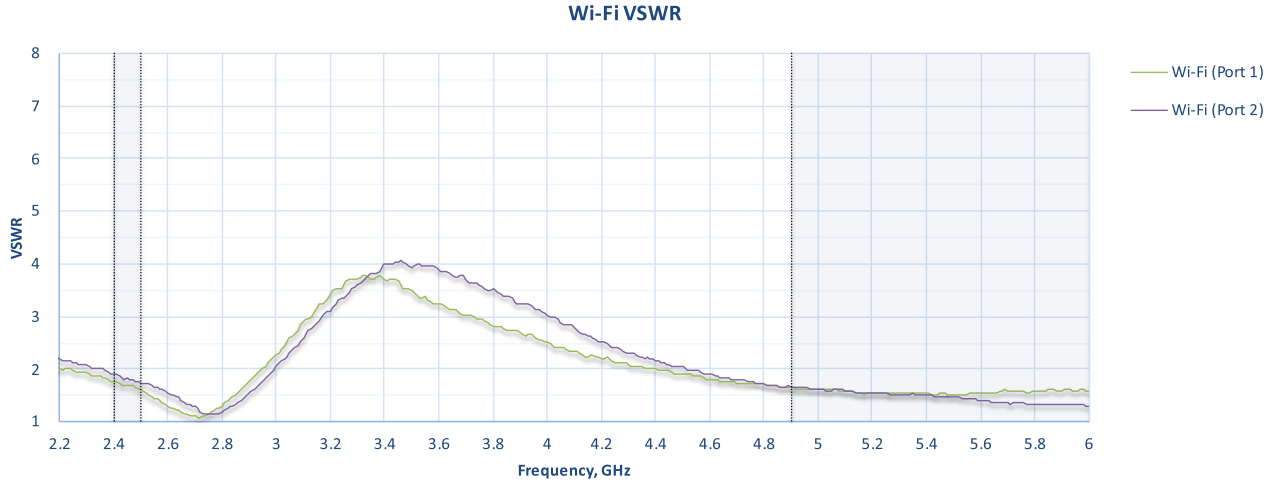


### Cellular Antenna Efficiency

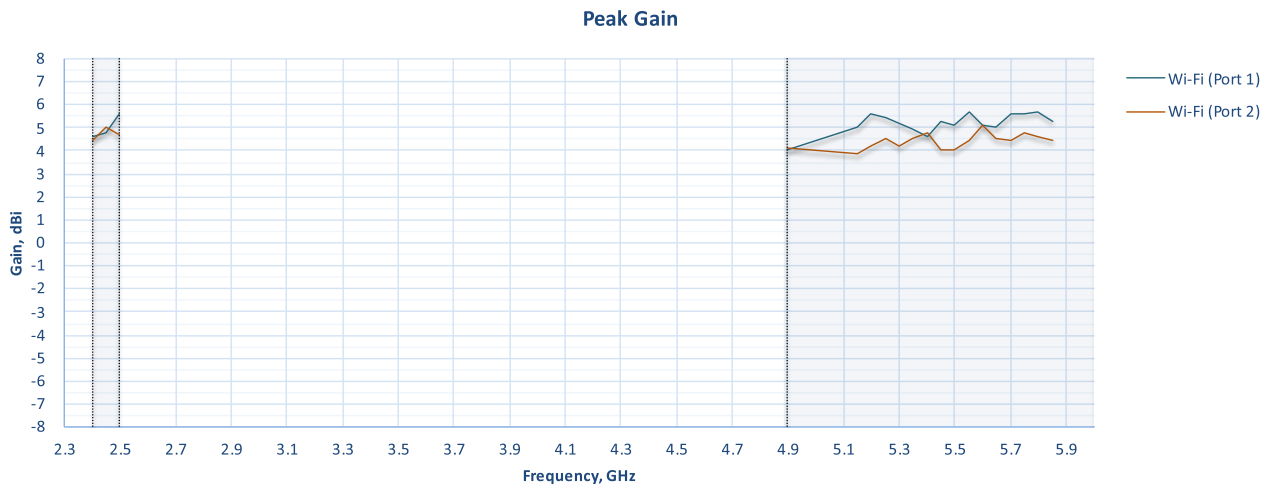


## Wi-Fi Antenna Performance

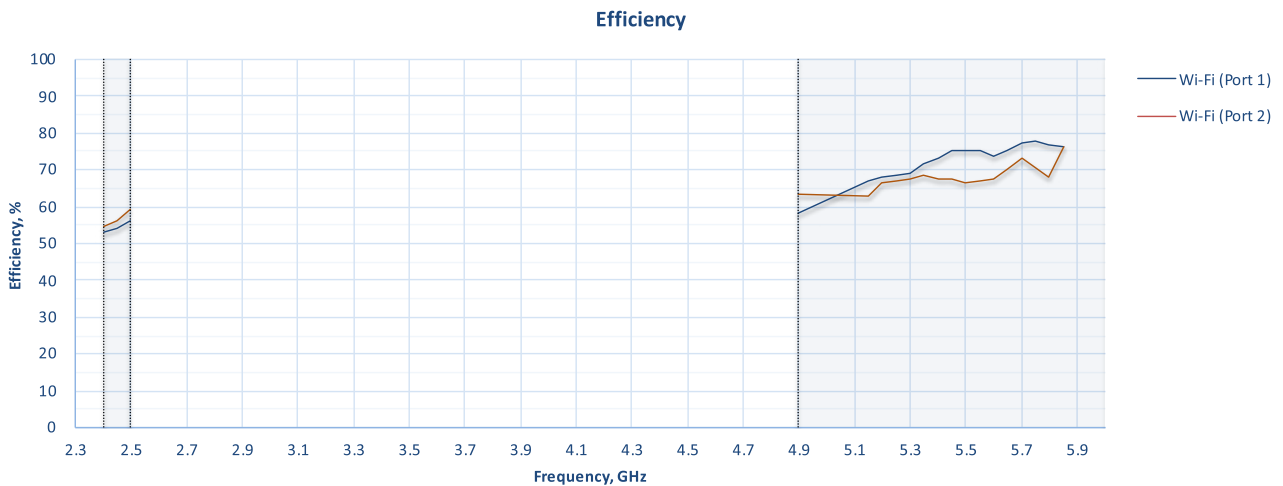
### Wi-Fi Antenna VSWR



### Wi-Fi Antenna Gain



### Wi-Fi Antenna Efficiency

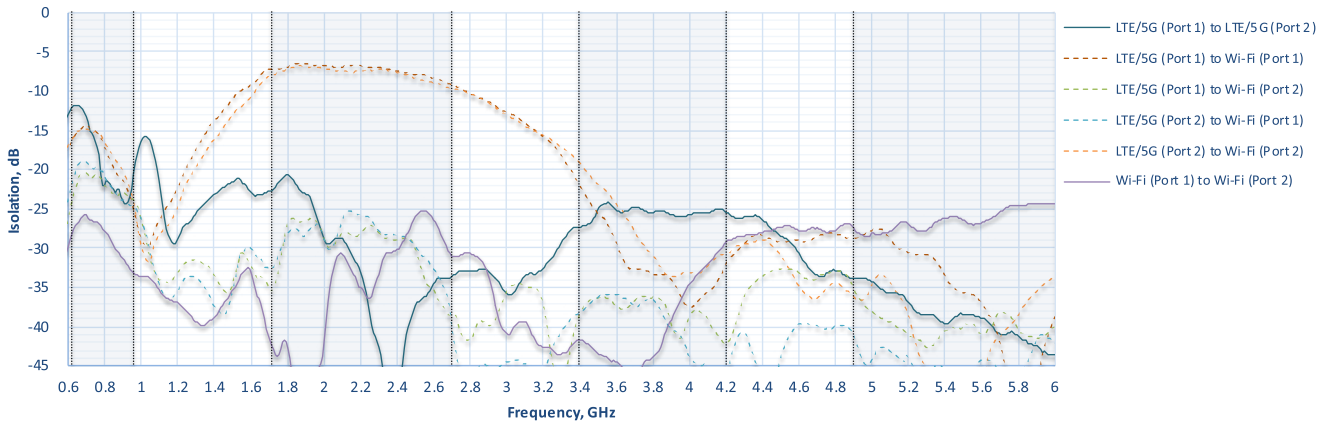




## Cellular & Wi-Fi Antenna Performance

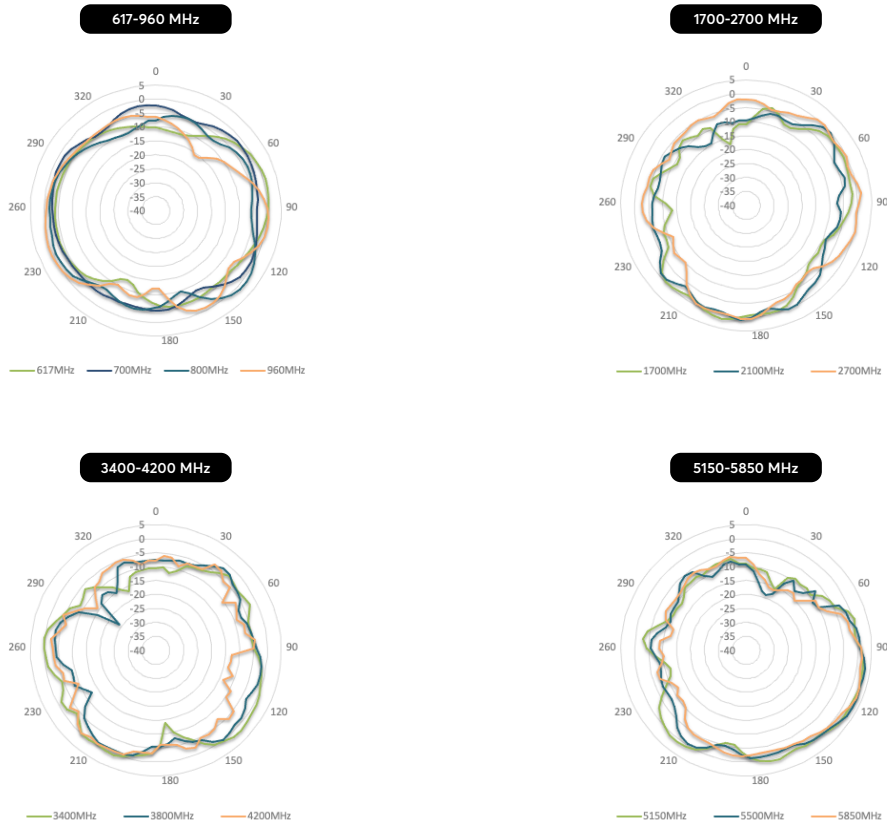
### Cellular & Wi-Fi Antenna Isolation

LTE/5G and Wi-Fi antenna elements isolation



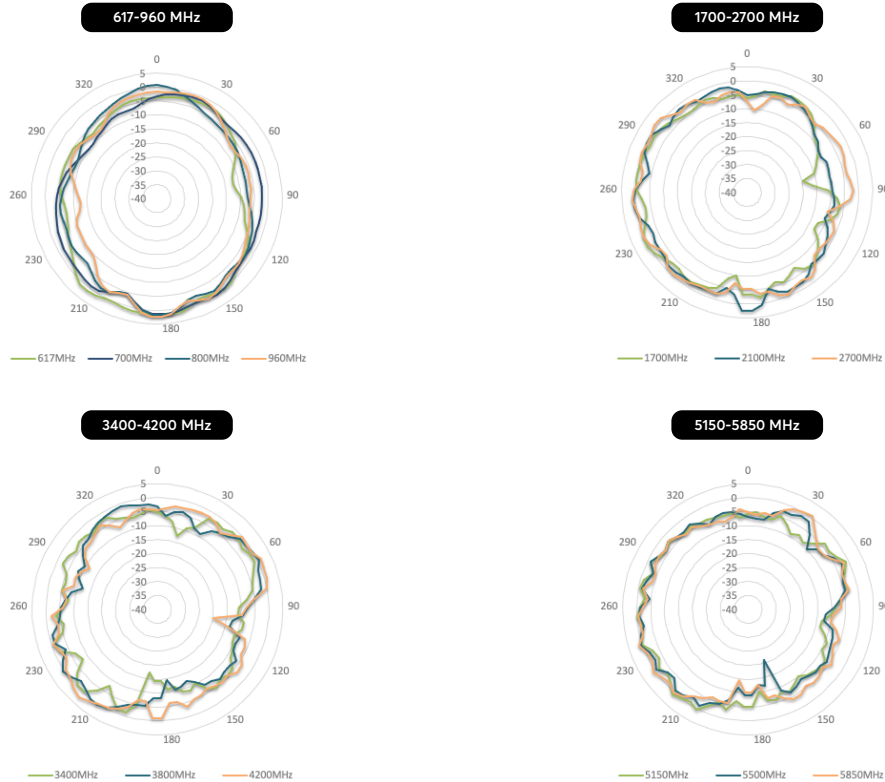
## Radiation Pattern

### LTE Radiation Patterns (Azimuth)

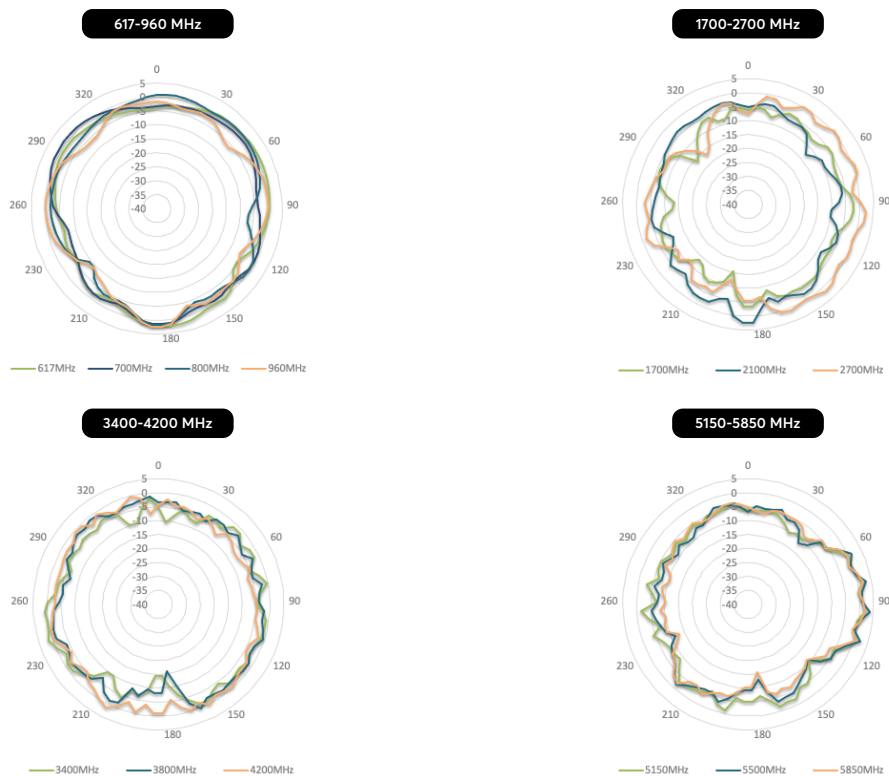


## Radiation Pattern

### LTE Radiation Patterns (Elevation 1)



### LTE Radiation Patterns (Elevation 2)



## Radiation Pattern

### Wi-Fi Radiation Patterns (Azimuth)



### Wi-Fi Radiation Patterns (Elevation 1)



### Wi-Fi Radiation Patterns (Elevation 2)

