



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, durable housing.

Easy Installation

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



Specification

Cellular

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

GPS

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

Wi-Fi

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

Cable (Cellular / Wi-Fi)

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

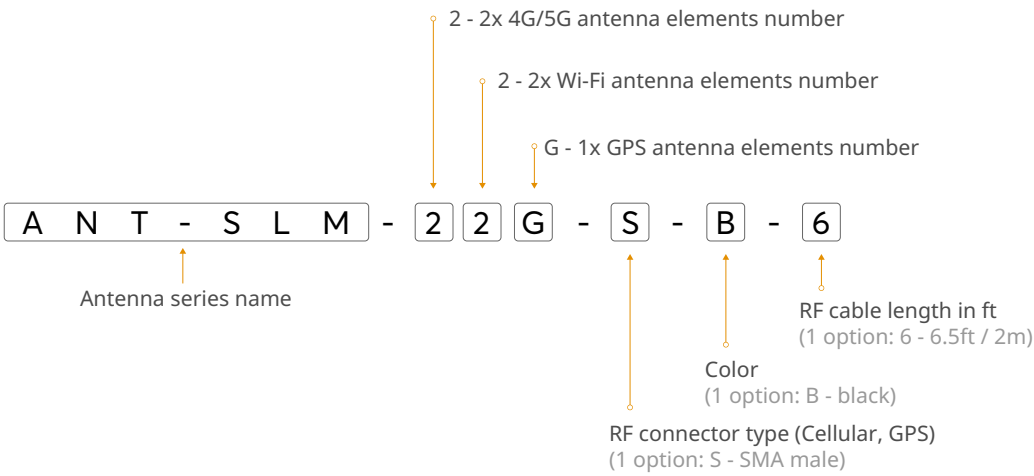
Cable (GPS)

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

Specification

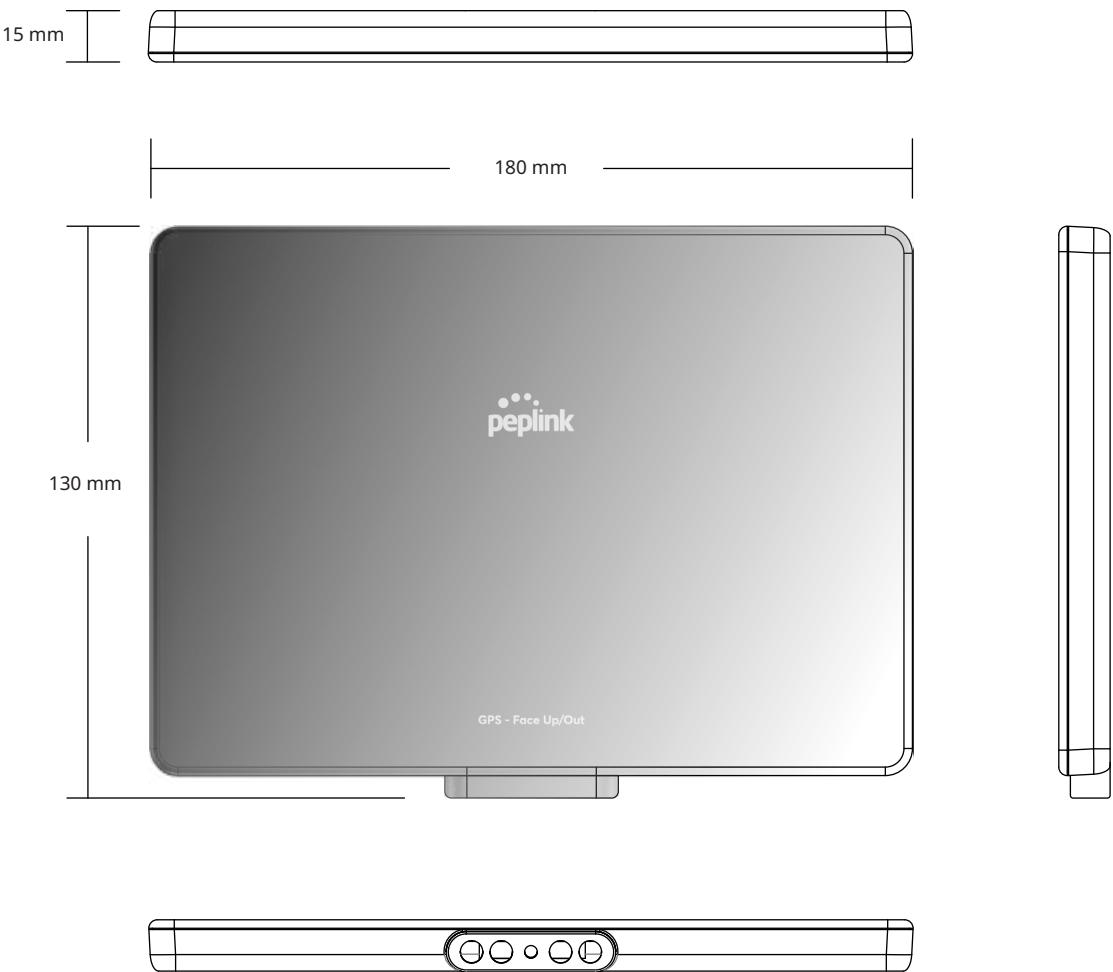
Mounting		Mechanical	
Supported Types	Window, wall	Product Dimensions	7.09"x5.12"x0.59" / 180x130x15mm
Package contents		Packaged Dimensions	9.61"x3.15"x9.84" / 244x80x250mm
Antenna	Slim 22G	Enclosure Material	UV stable PC
Accessories	Velcro strip (hook and loop fastener) (4pcs, length 4.7' / 120mm)	Color	Black
Environmental, compliance			
IP Rating	IP55	Compliance	ROHS, REACH, WEEE
Operating Temperature	-40° - 176°F / -40° - 80°C	Enclosure Flammability	UL 94 HB
Storage Temperature	-40° - 176°F / -40° - 80°C	Cable Flammability	UL 758 (VW-1)
		UV Resistance	UL 746C (F1 long-term UV exposure)

Ordering Information



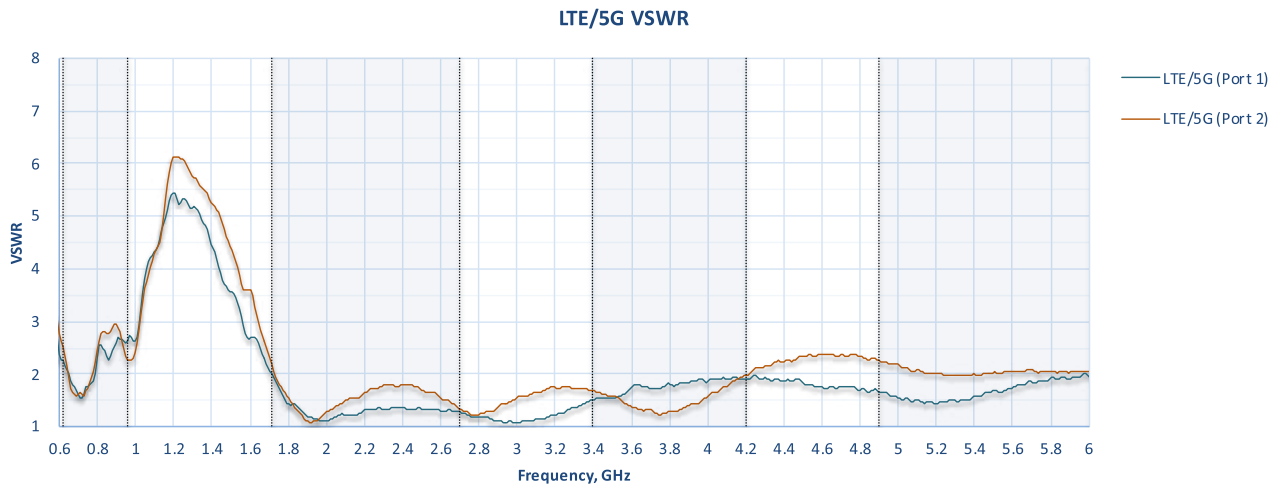
Product Code	Description
ANT-SLM-22G-S-B-6	2x LTE/5G, 2x Wi-Fi, 1x GPS 600-6000MHz, SMA male (Cellular, GPS), RP-SMA male (Wi-Fi), Black, 6.5ft / 2m

Technical Drawing

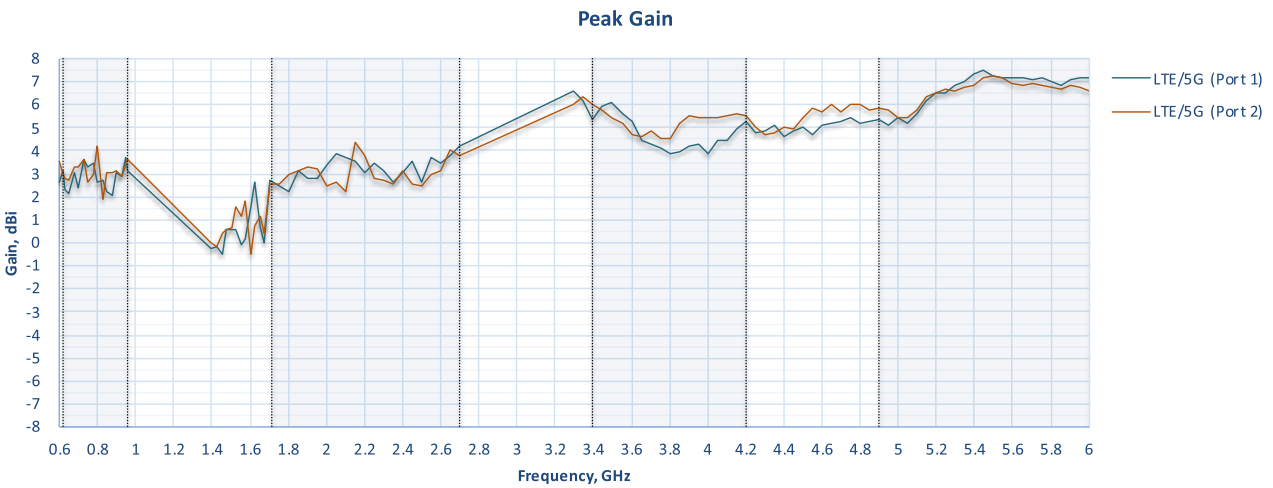


Cellular Antenna Performance

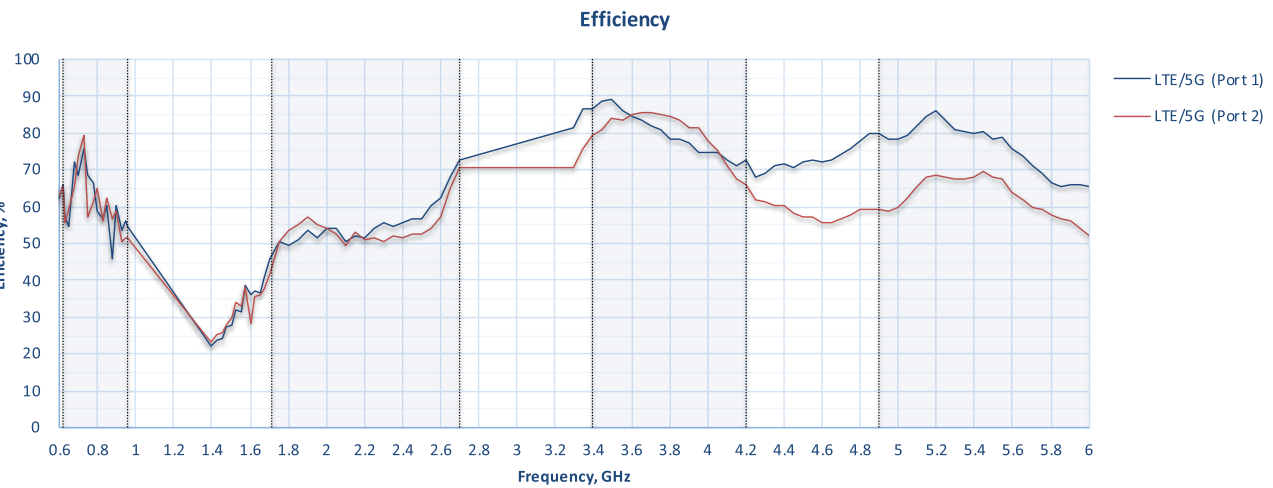
Cellular Antenna VSWR



Cellular Antenna Gain

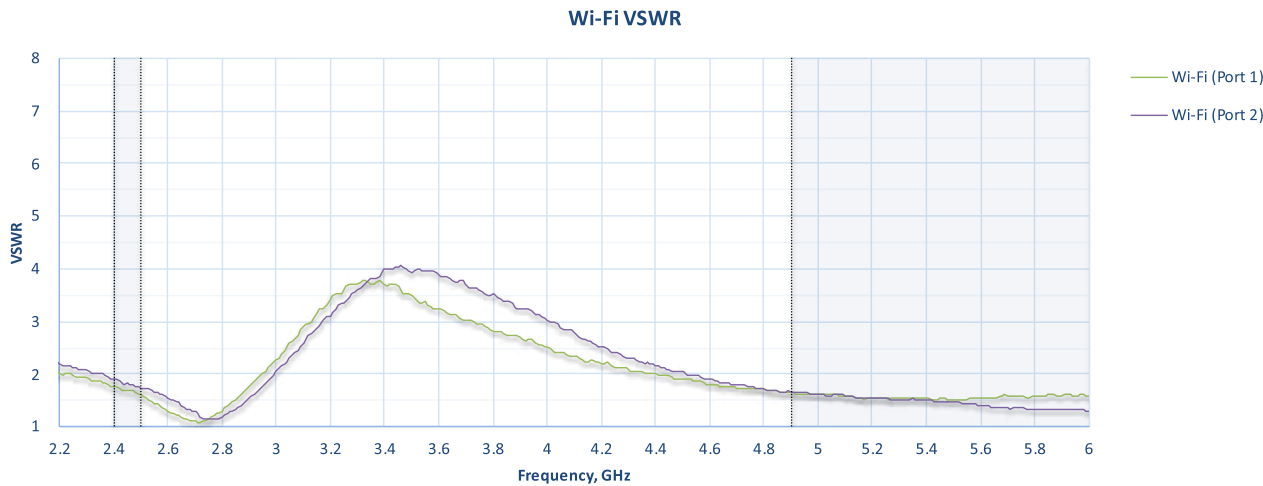


Cellular Antenna Efficiency

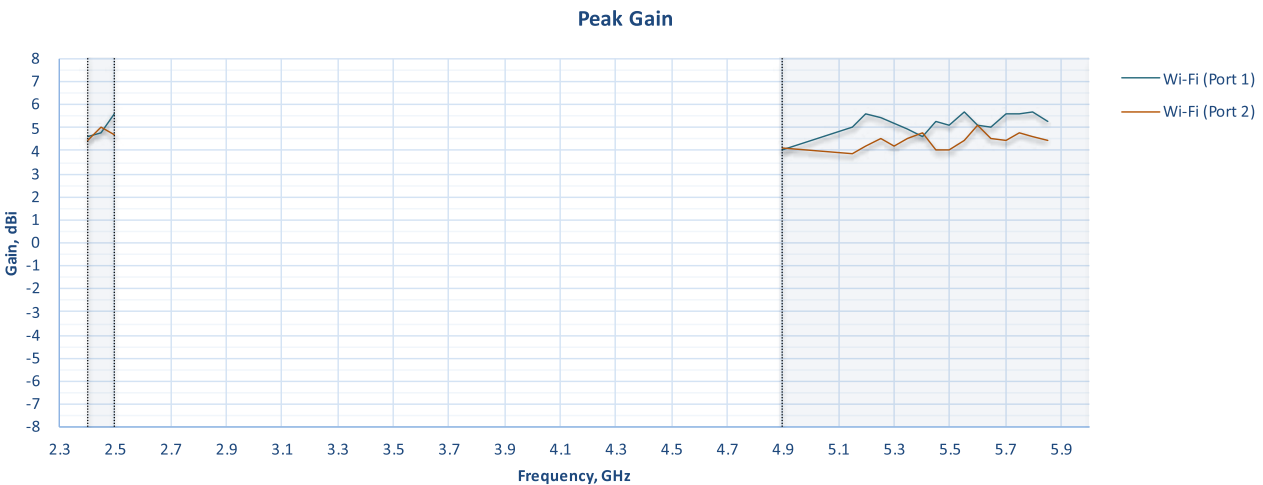


Wi-Fi Antenna Performance

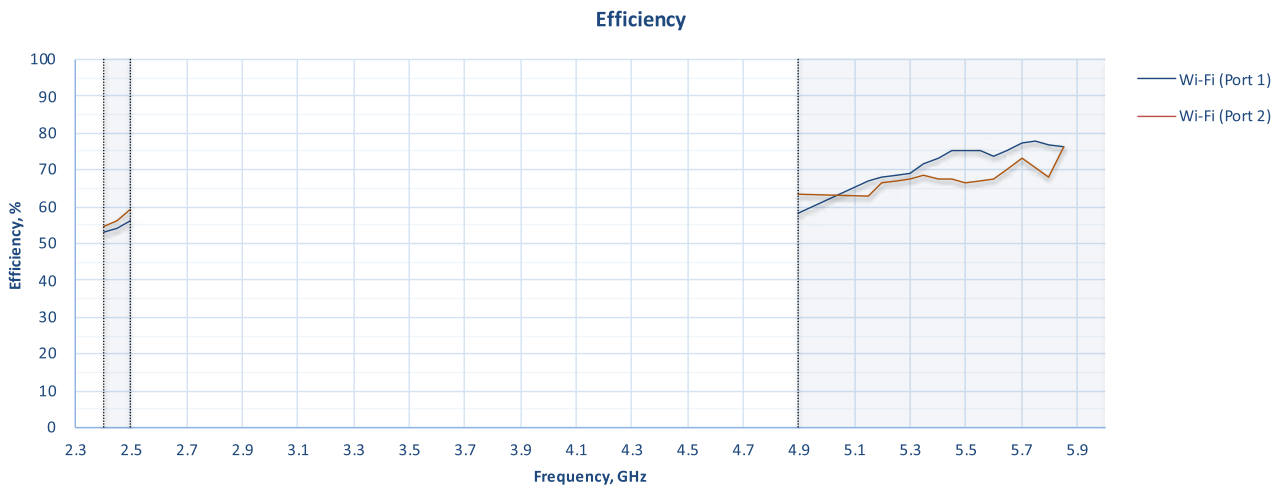
Wi-Fi Antenna VSWR



Wi-Fi Antenna Gain

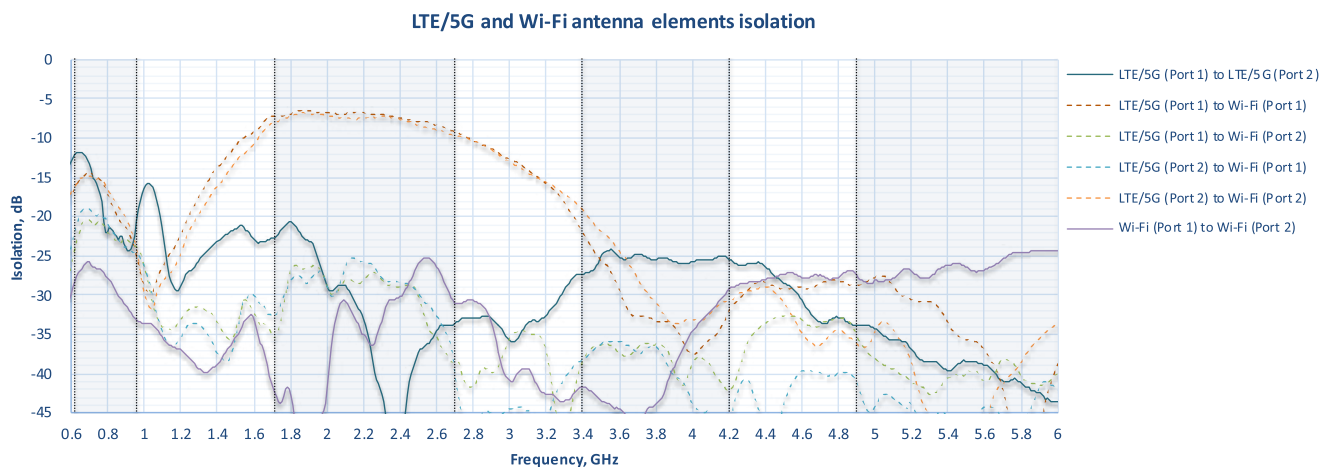


Wi-Fi Antenna Efficiency



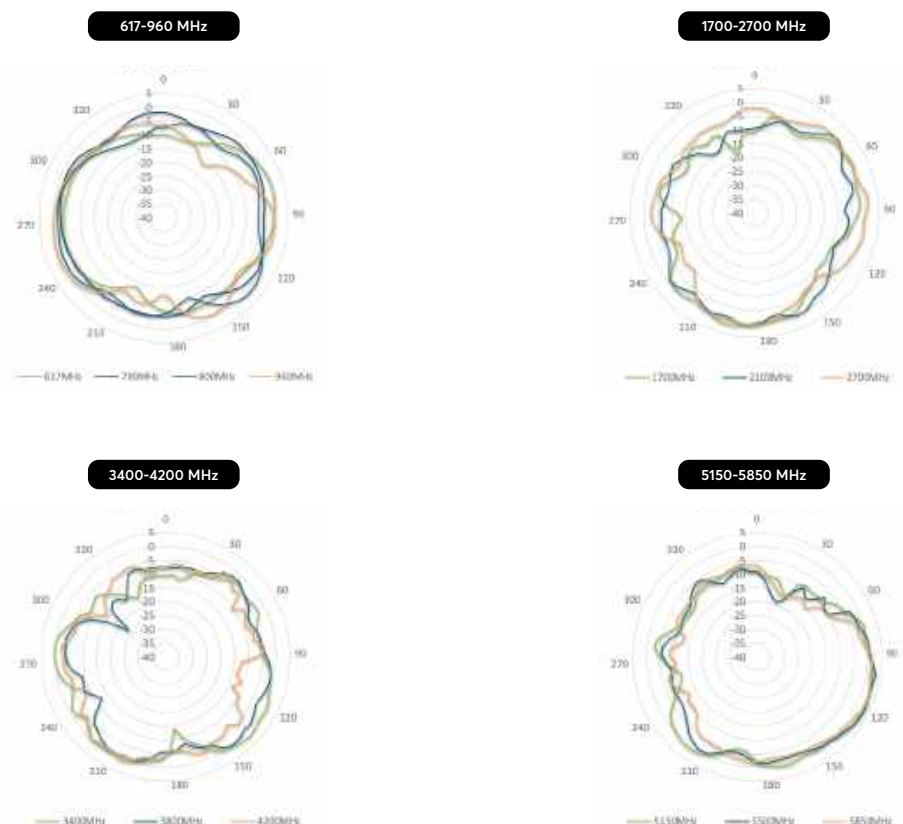
Cellular & Wi-Fi Antenna Performance

Cellular & Wi-Fi Antenna Isolation



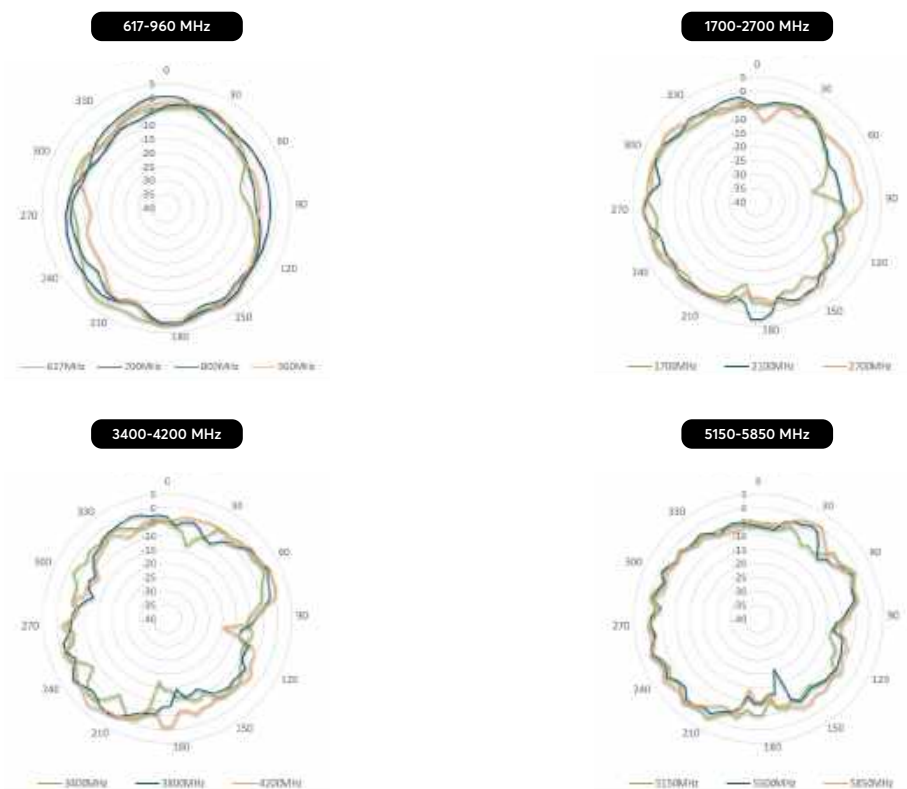
Radiation Pattern

LTE Radiation Patterns (Azimuth)

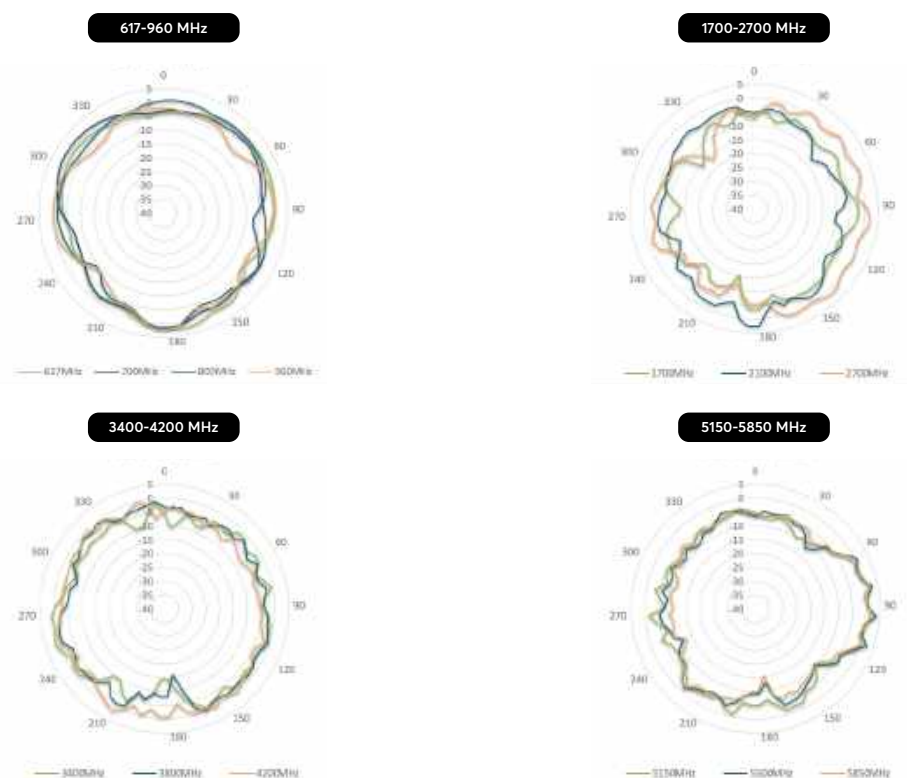


Radiation Pattern

LTE Radiation Patterns (Elevation 1)

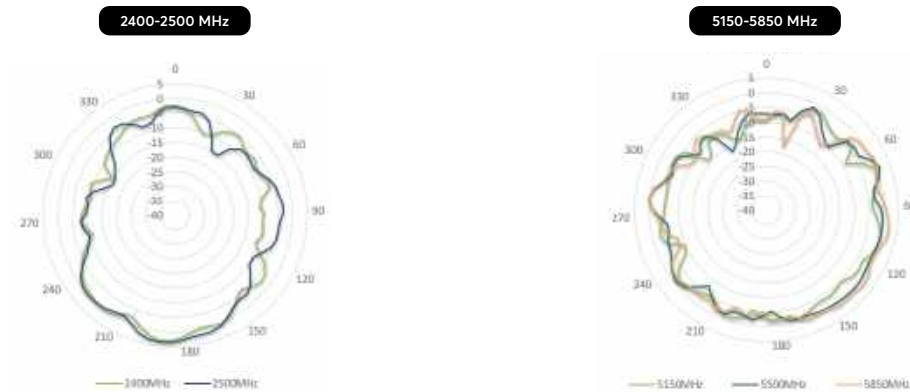


LTE Radiation Patterns (Elevation 2)

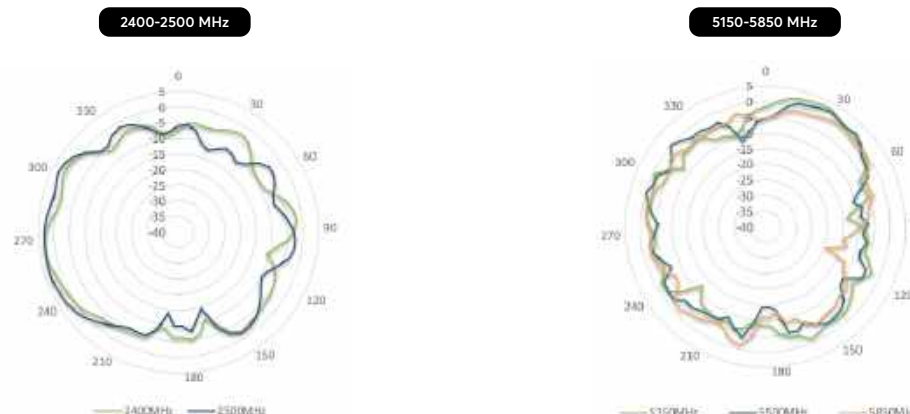


Radiation Pattern

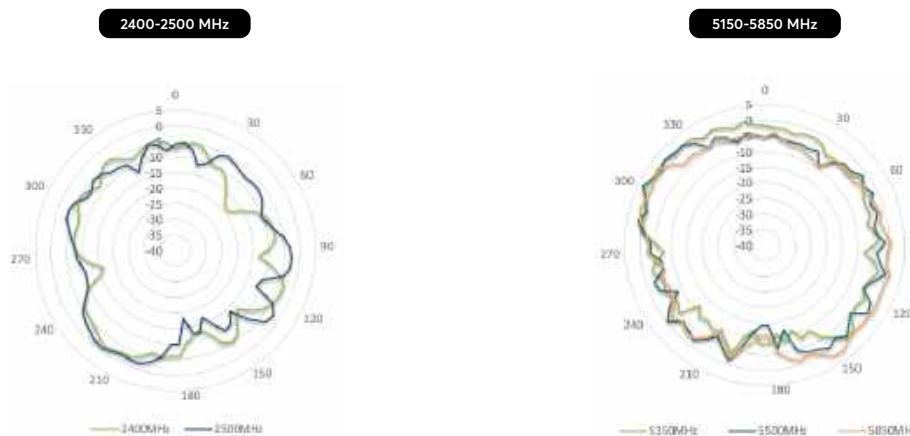
Wi-Fi Radiation Patterns (Azimuth)



Wi-Fi Radiation Patterns (Elevation 1)

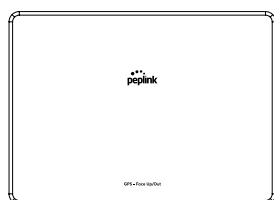


Wi-Fi Radiation Patterns (Elevation 2)



Installation Recommendation

Step 1



This side face the sky

Velcro strip
(hook and loop fastener)



Step 2

window
or wall

