

# QuMax for Cradlepoint R1900

**INTEGRATED MULTI-BAND 5G DIRECTIONAL ANTENNA + WIFI OMNI ANTENNA + BLUETOOTH ANTENNA + GPS ANTENNA + PASSIVE POE SPLITTER + PLACE TO INSTALL CRADLEPOINT R1900 (ALL-IN-ONE)**

QuMax all-in-one antenna for Cradlepoint R1900 router is dedicated to connections with long distance to base station. It has embedded directional 5G, Wi-Fi, Bluetooth and GPS antenna. If you use R1900 with QuMax Omni antenna, you get an integrated complete solution with embedded router and multi band antennas in one enclosure. It is the first choice for fixed installations in industrial environment.

The set contains a [Passive PoE splitter](#), allowing you to split data and power from a single Ethernet cable and maintain gigabit transfer speeds while protecting the LAN port from damage caused by overvoltage, short circuit or improper connection.



OUTDOOR ANTENNA WORKS IN **ANY**  
WEATHER CONDITIONS, IP68



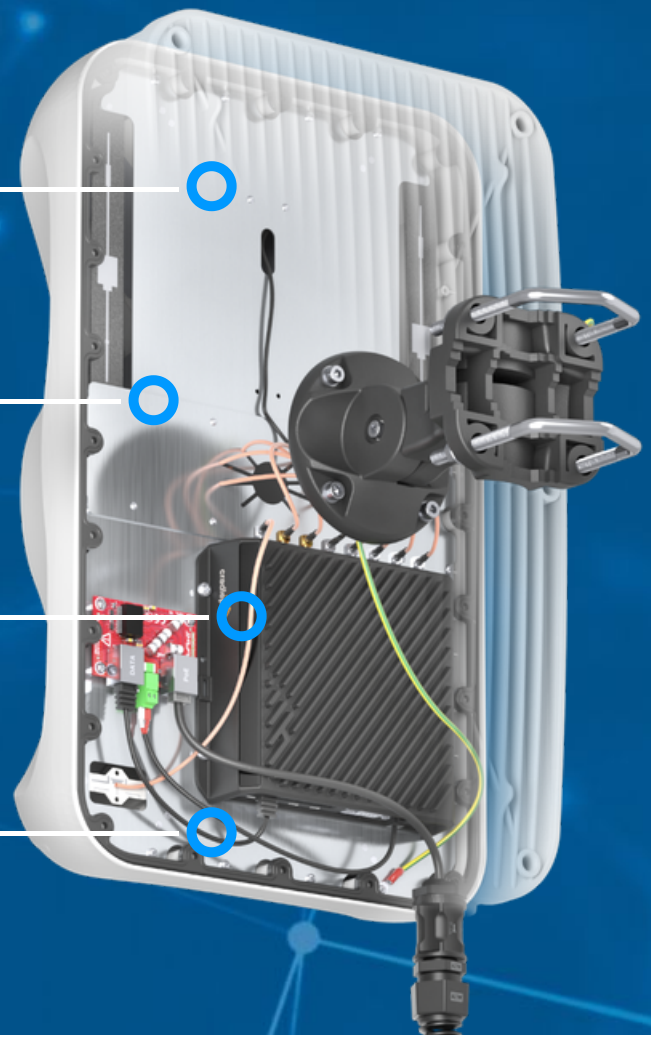
ANTENNA PERFECTLY MATCHED WITH  
THE CRADLEPOINT R1900



ALL ANTENNAS AND CRADLEPOINT  
ROUTER INTEGRATED IN ONE  
ENCLOSURE



MADE IN **EUROPE**



## 5G/LTE SPECIFICATION

FREQUENCY	617 - 960 MHz 1.7 - 2.7 GHz 3.3 - 4.6 GHz 4.7 - 6.0 GHz
SUPPORTED LTE BANDS	1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 52, 53, 65, 66, 67, 68, 69, 71, 85, 103, 106
SUPPORTED 5G BANDS	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n53, n65, n66, n67, n71, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256
GAIN	617 - 960 MHz : 6 dBi 1.7 - 2.7 GHz : 7 dBi 3.3 - 4.6 GHz : 7 dBi 4.7 - 6.0 GHz : 5.5dBi
VSWR	<2.00, max <3.00
BEAMWIDTH	80°/80° ±15°
POLARIZATION	Vertical
IMPEDANCE	50 $\Omega$

## WI-FI SPECIFICATION

FREQUENCY	2.4 - 2.5 GHz 5.0 - 7.2 GHz
GAIN	2.4 - 2.5 GHz: 6dBi 5 GHz: 7.5dBi 7 GHz: 7.5dBi
VSWR	< 1.50, max < 2.00
BEAMWIDTH	360°/25° +/- 5°
POLARIZATION	Vertical
IMPEDANCE	50 $\Omega$

## MECHANICAL SPECIFICATION

MATERIAL	BS, aluminum, PTFE, Fiberglass
INGRESS PROTECTION	IP68
CONNECTOR TYPE	RJ45
DIMENSIONS	486.0 x 292.2 x 210 mm 19.13 x 11.50 x 8.27 inch
WEIGHT	1.8 kg 3.97 lbs
OPERATING TEMPERATURE	From -40°C to 75°C From -40°F to 167°F

## MOUNTING KIT

### DIMENSIONS

9.9 x 10.5 x 14.8 cm  
3.9 x 4.13 x 5.83 inch

### REGULATION RANGE

+/- 30°

### MAST DIAMETER RANGE

25 - 60mm  
0.98-2.36 inch

### MATERIAL

Polyamide with fiberglass + galvanized steel U-Bolts

### WEIGHT

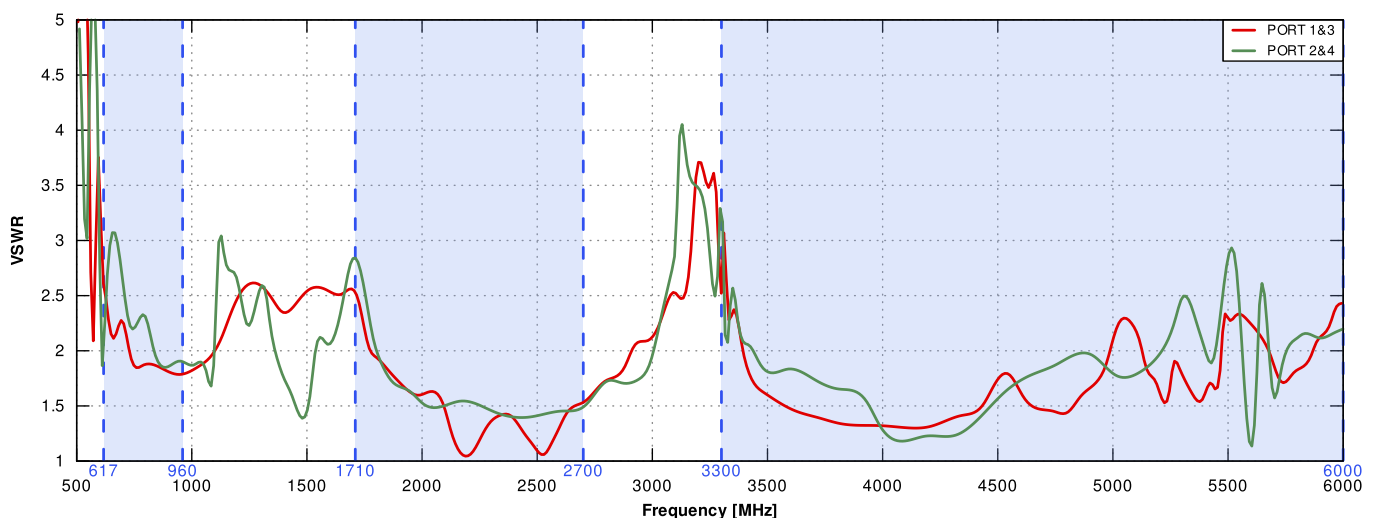
0.87kg

### MOUNTING PLACE

Wall or mast or ceiling

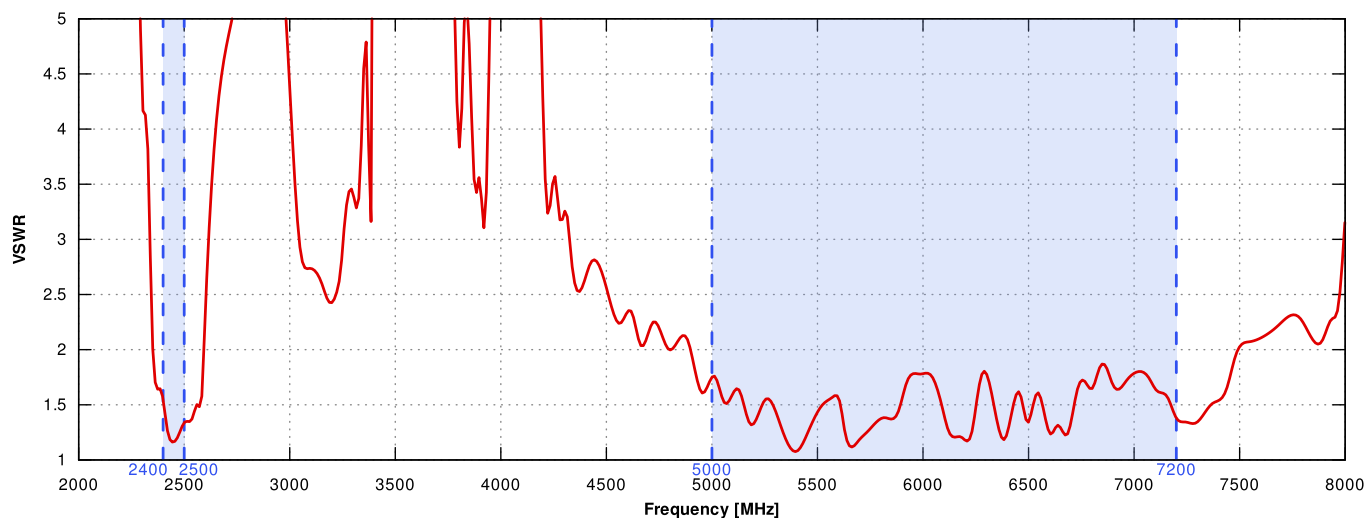
## PLOTS

VSWR for 5G/LTE antenna

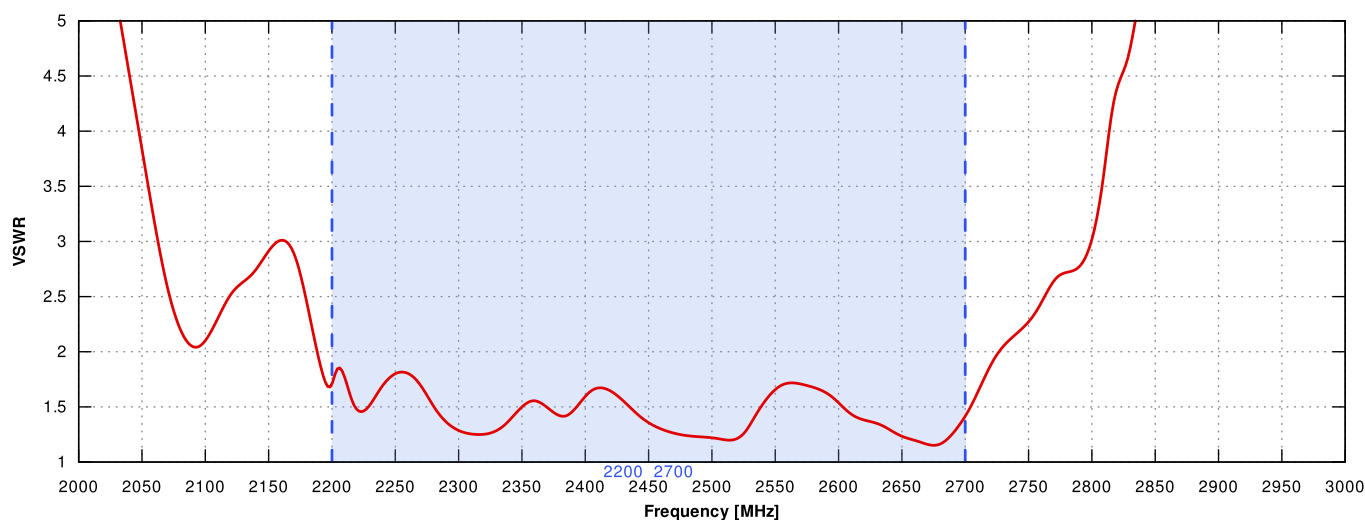




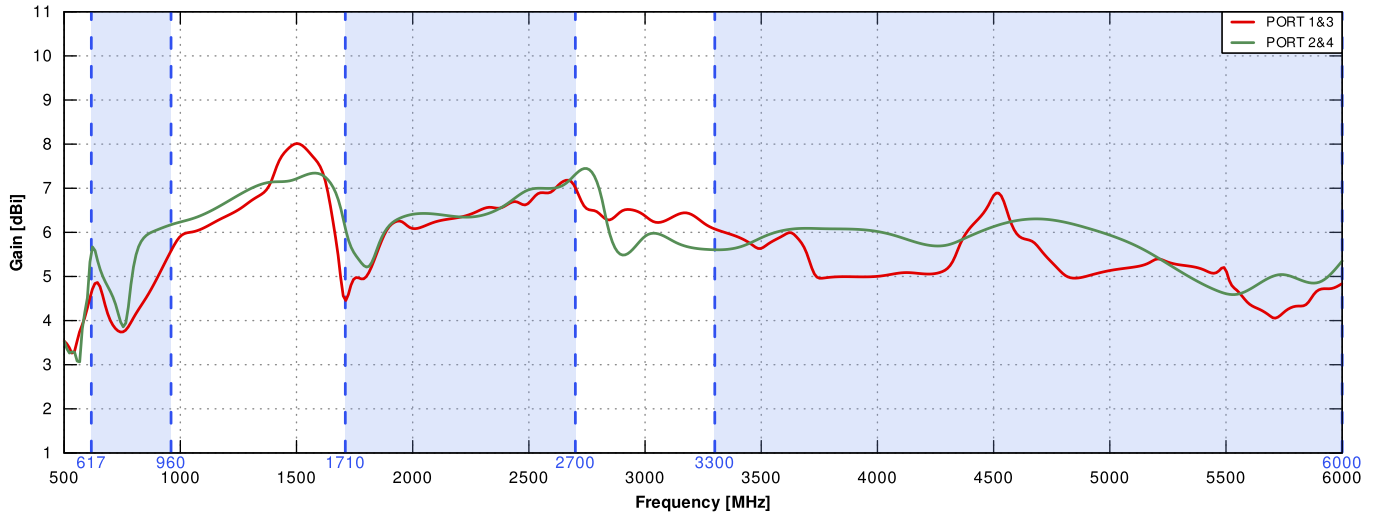
## VSWR for Wi-Fi antenna



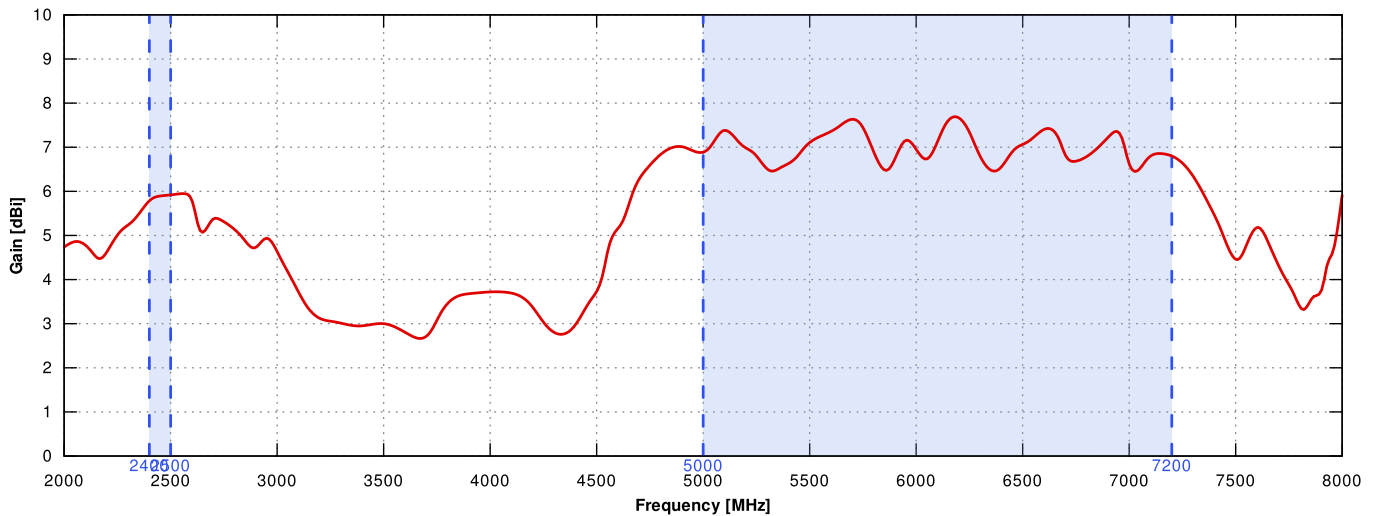
## VSWR for Bluetooth antenna



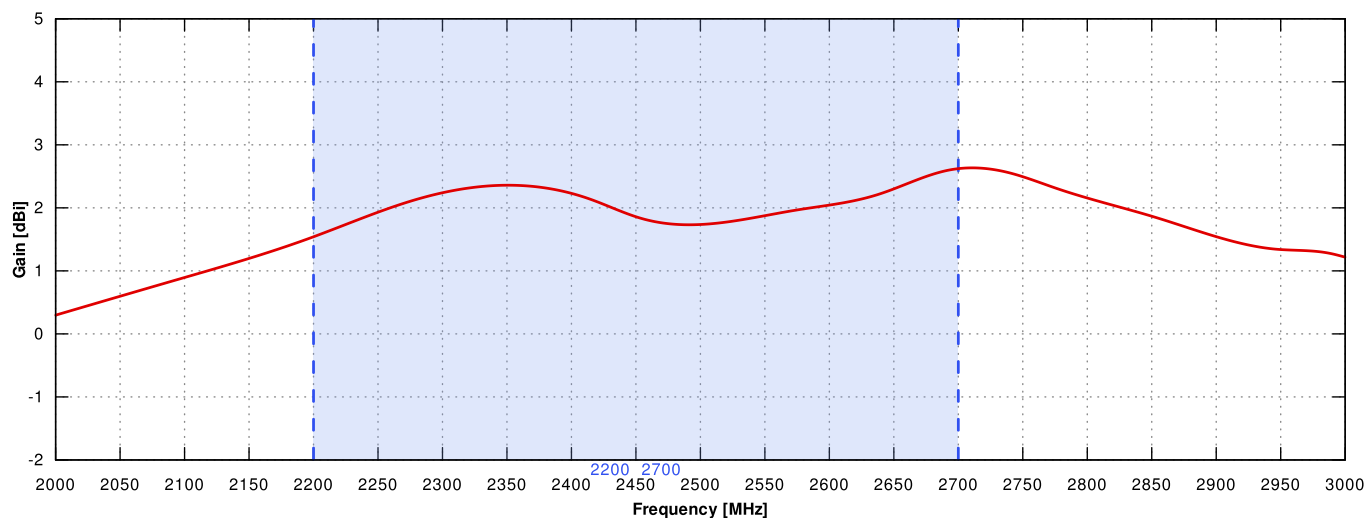
## Gain for 5G/LTE antenna



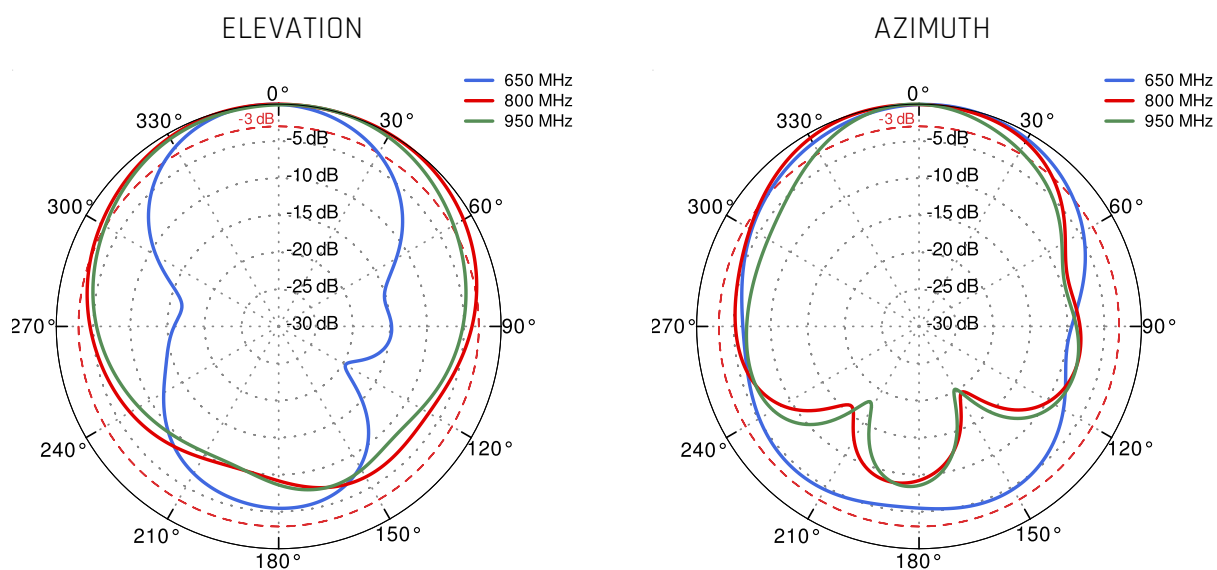
## Gain for Wi-Fi antenna



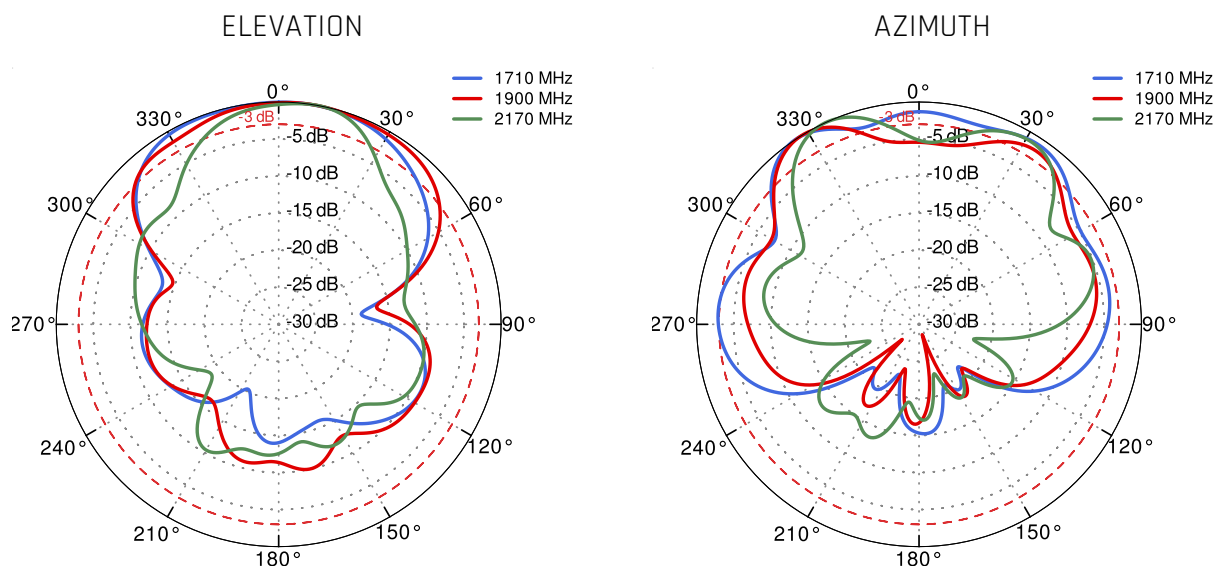
## Gain for Bluetooth antenna



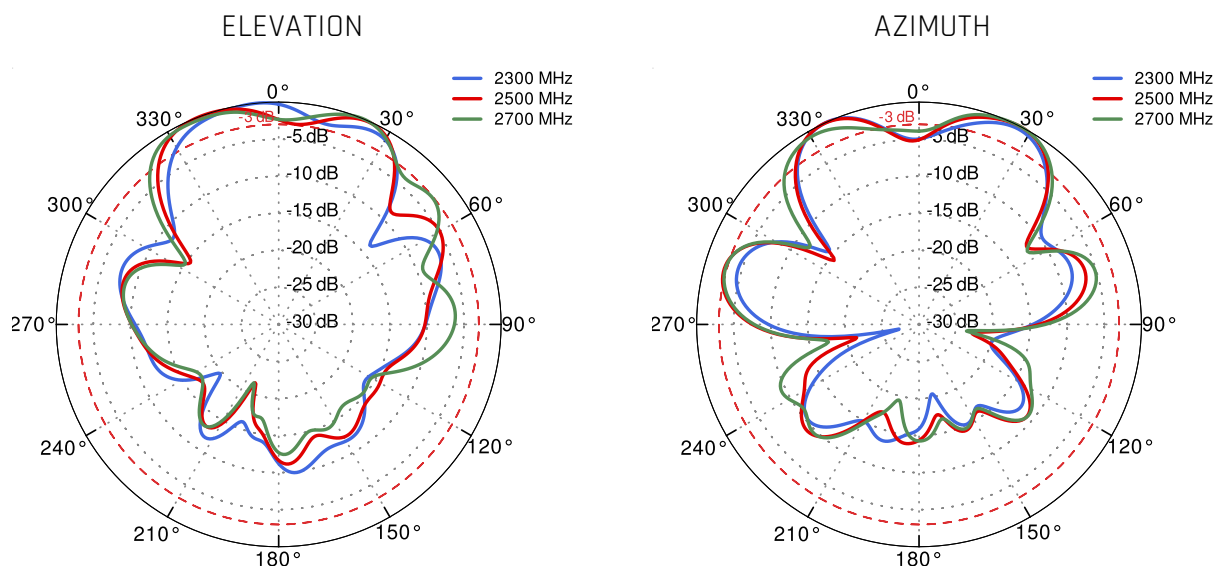
## 5G/LTE Port 1/3 from 650MHz to 950MHz



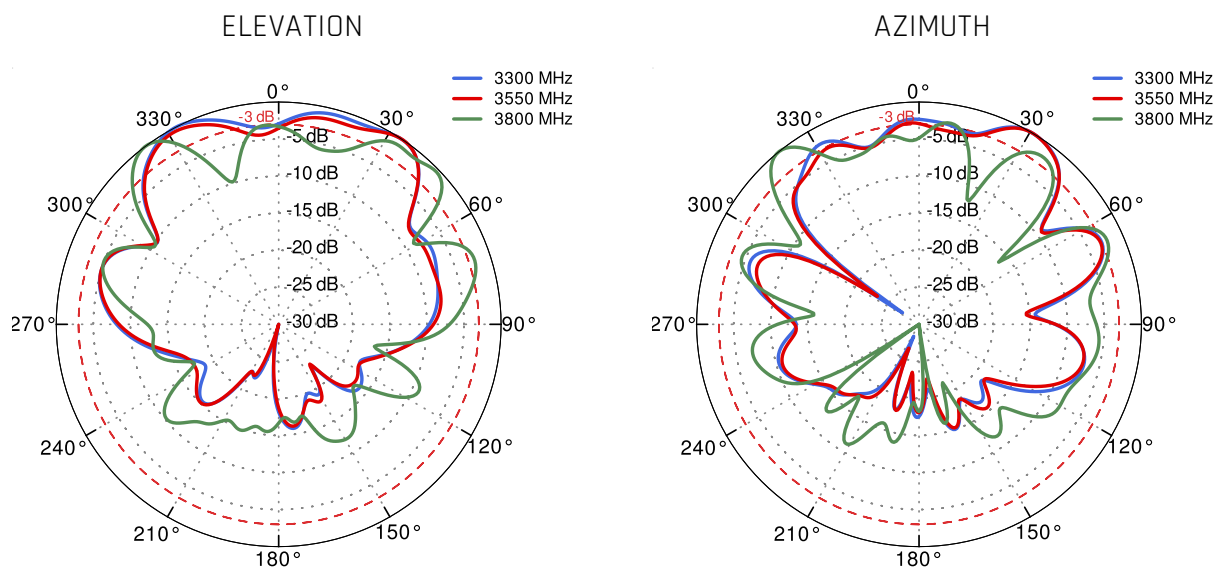
## 5G/LTE Port 1/3 from 1.71GHz to 2.17GHz



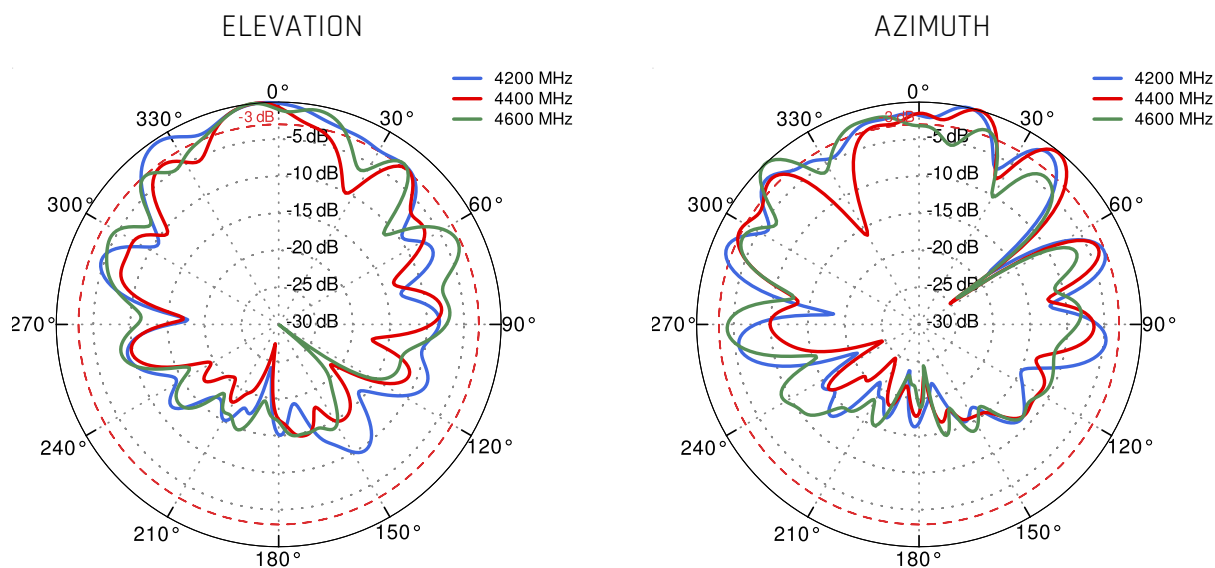
## 5G/LTE Port 1/3 from 2.3GHz to 2.7GHz



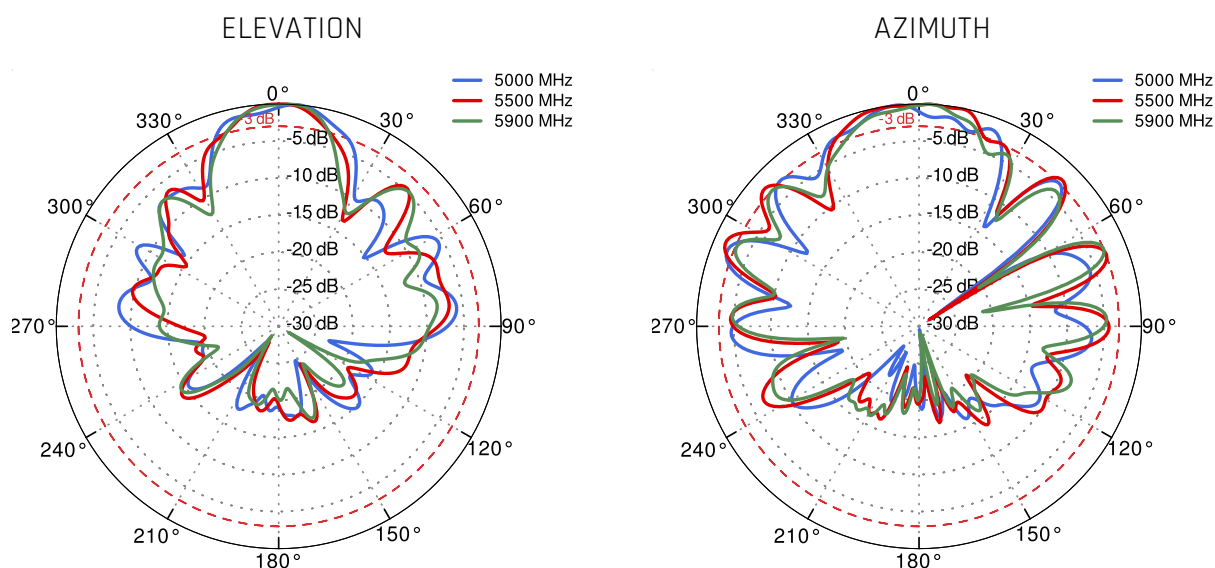
## 5G/LTE Port 1/3 from 3.3 GHz to 3.8 GHz



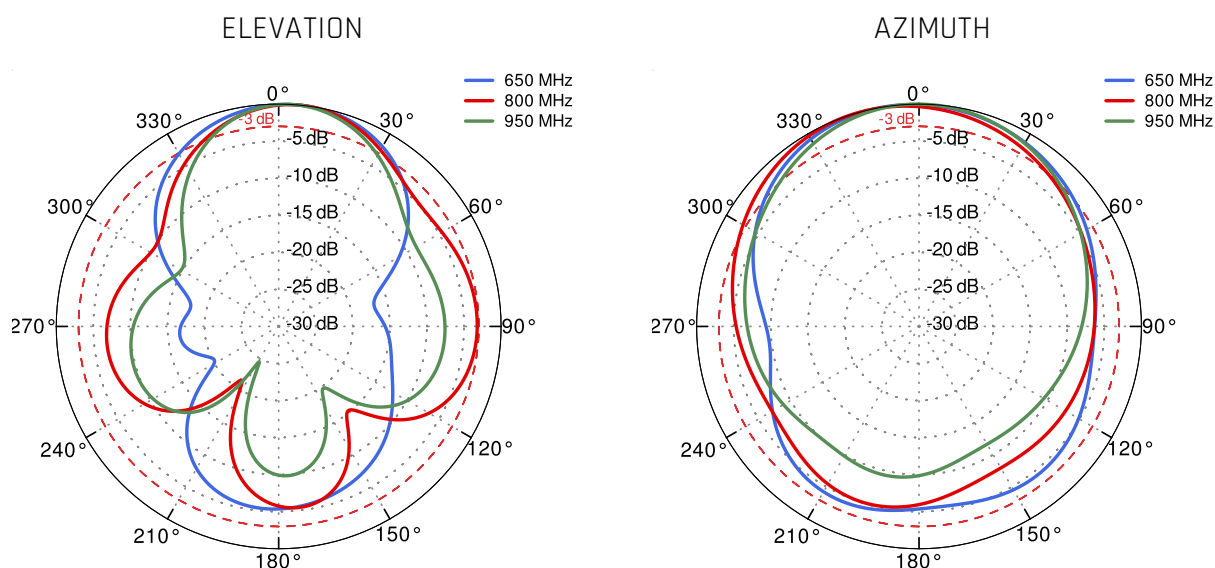
## 5G/LTE Port 1/3 from 4.2 GHz to 4.6 GHz



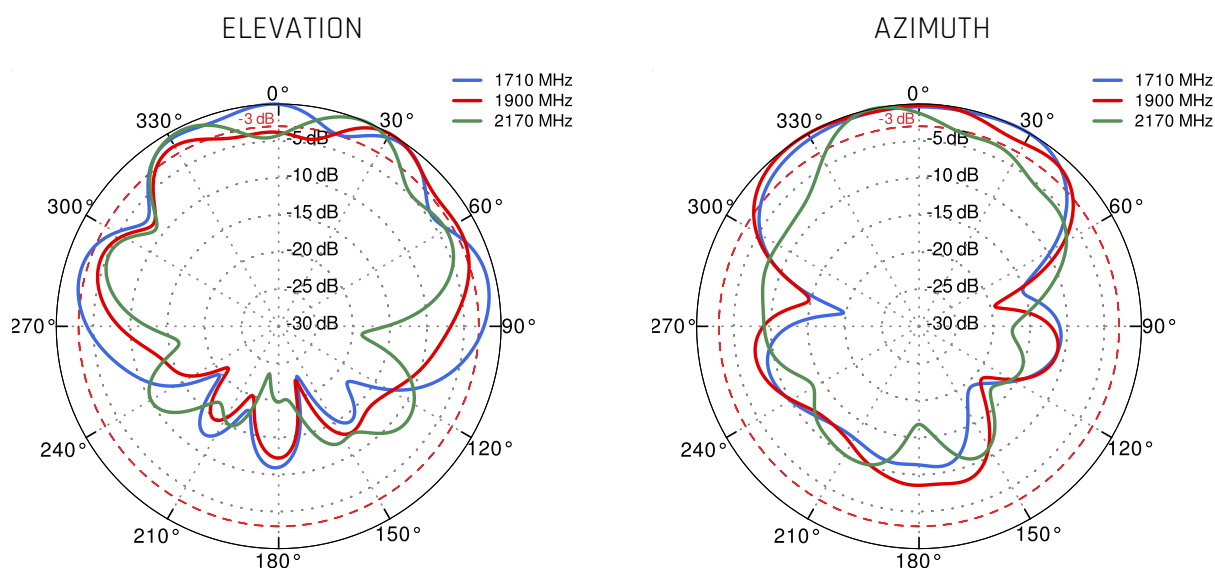
## 5G/LTE Port 1/3 from 5.0 GHz to 5.9 GHz



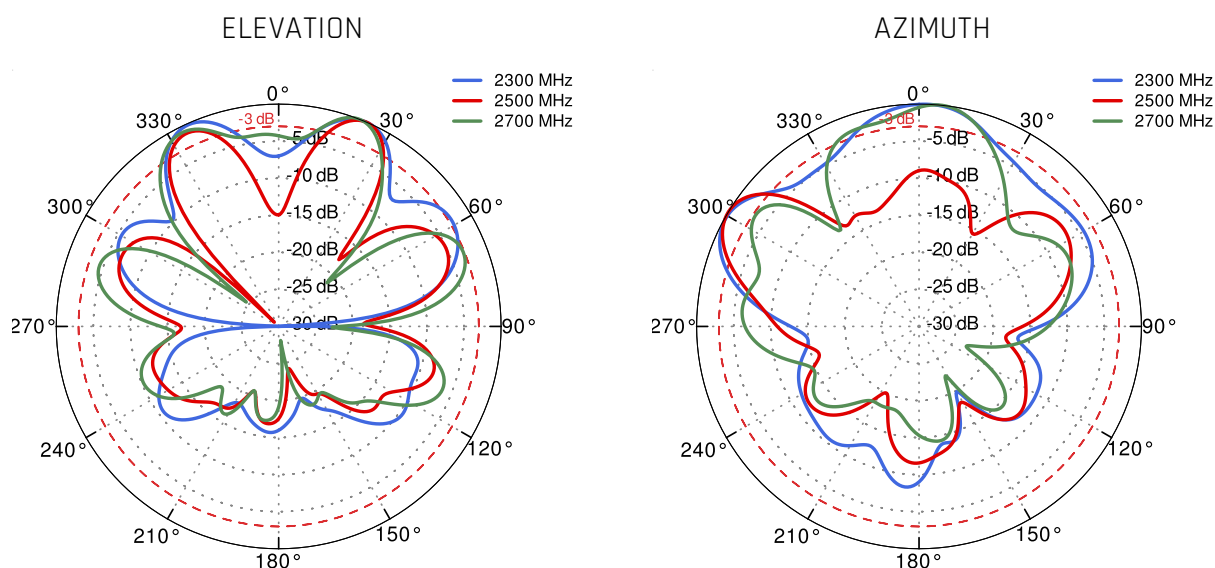
## 5G/LTE Port 2/4 from 650 MHz to 950 MHz



## 5G/LTE Port 2/4 from 1.71 GHz to 2.17 GHz

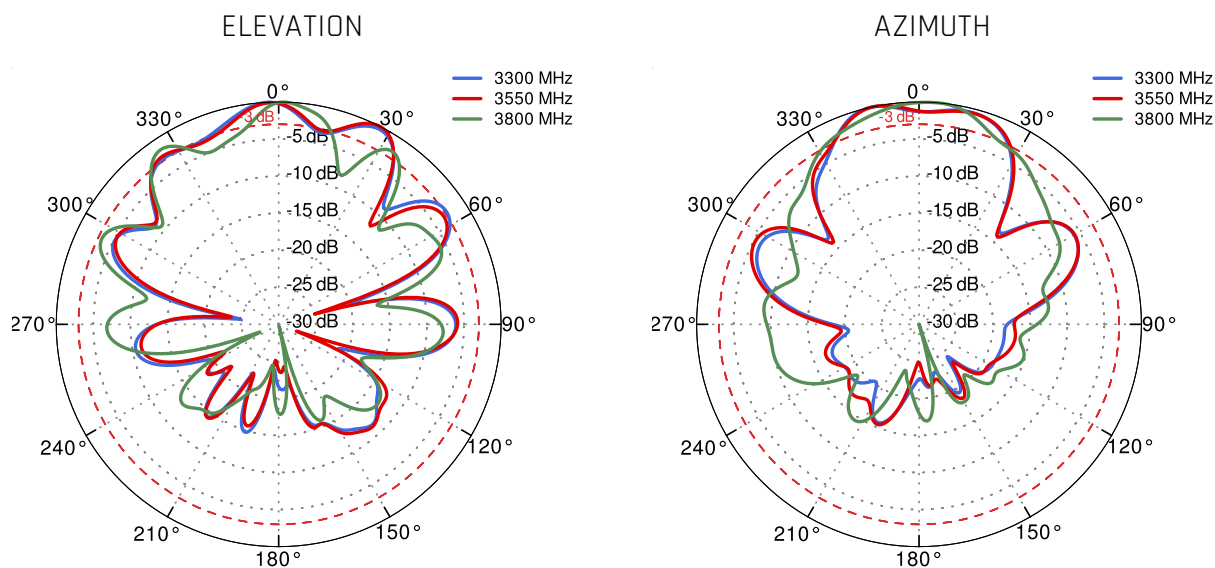


## 5G/LTE Port 2/4 from 2.3 GHz to 2.7 GHz

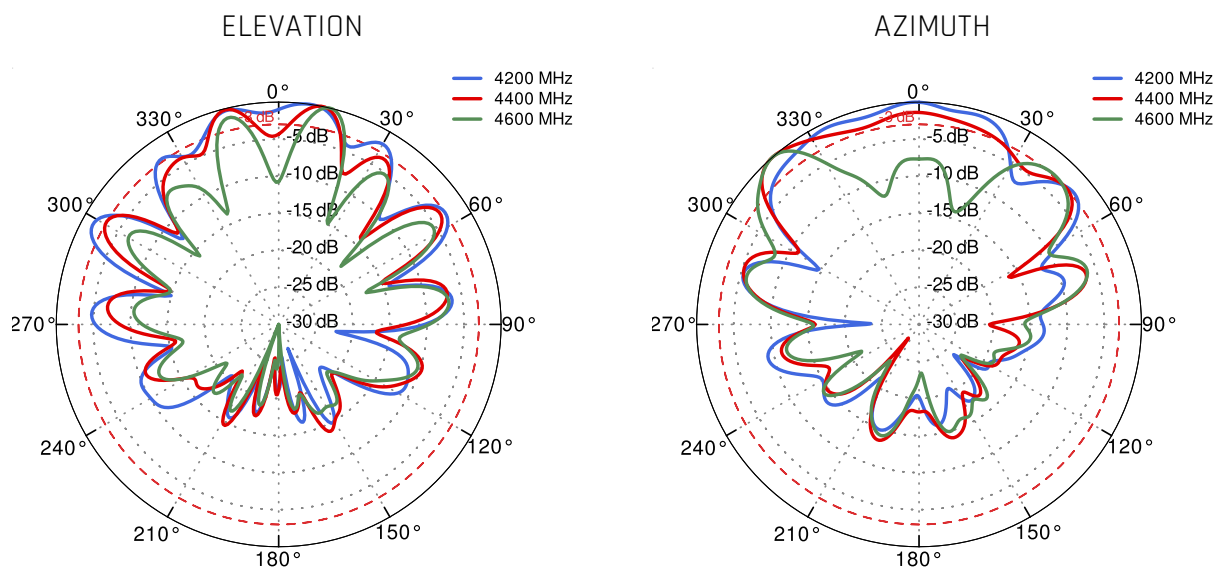




## 5G/LTE Port 2/4 from 3.3 GHz to 3.8 GHz

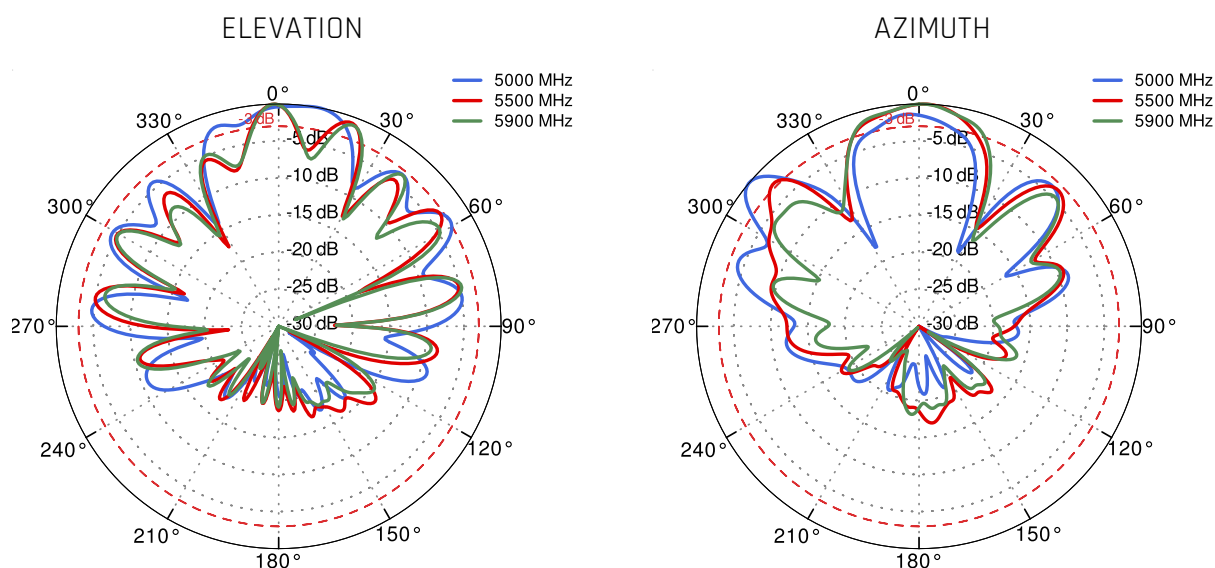


## 5G/LTE Port 2/4 from 4.2 GHz to 4.6 GHz

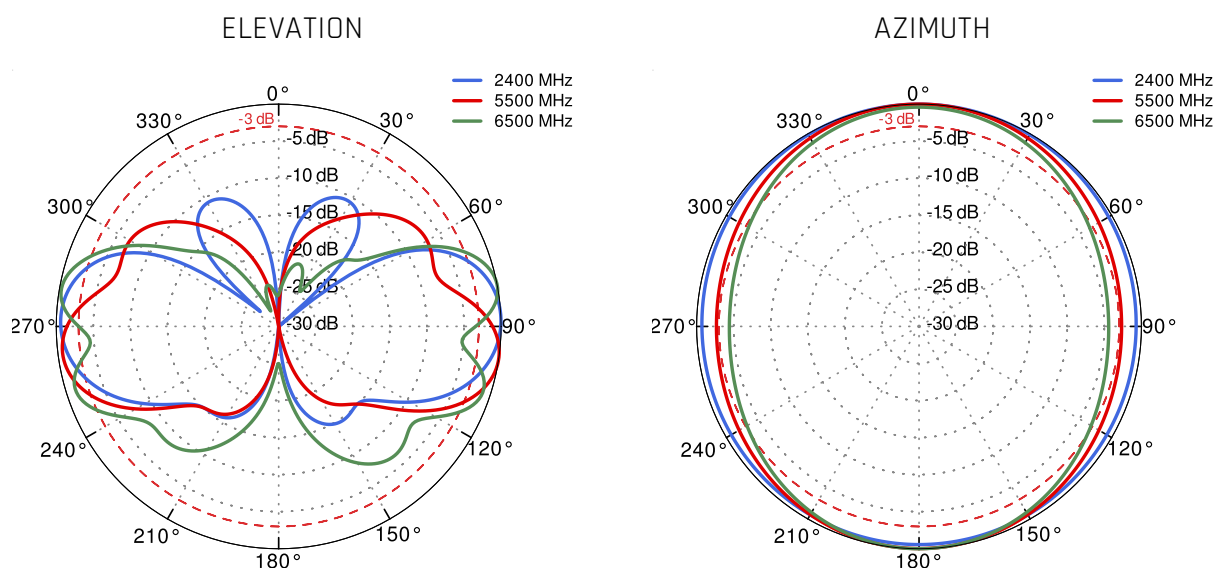




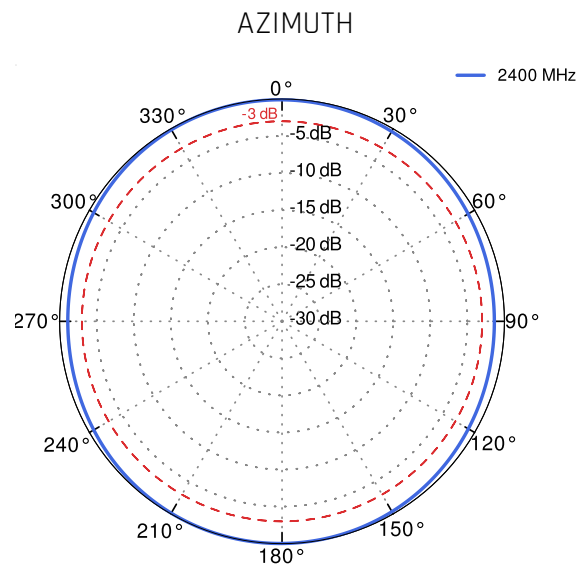
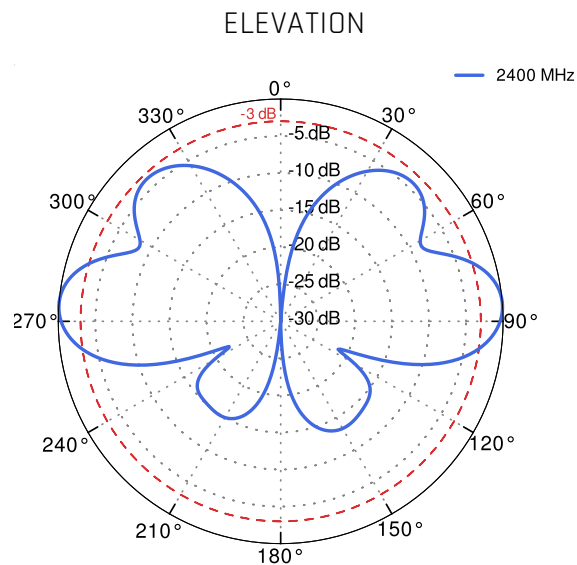
## 5G/LTE Port 2/4 from 5.0 GHz to 5.9 GHz



## Wi-Fi From 2.4 GHz to 6.5 GHz



## Bluetooth



## DIMENSIONS

