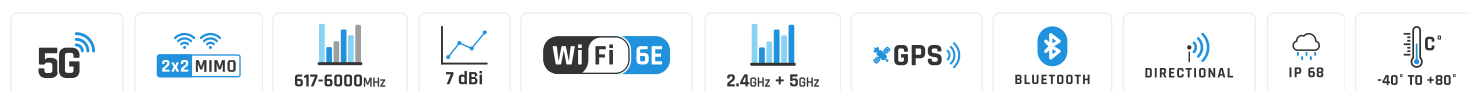


# QuMax for Cradlepoint R920

**INTEGRATED MULTI-BAND 5G DIRECTIONAL ANTENNA + WI-FI 6E OMNI ANTENNA + BLUETOOTH ANTENNA + GPS ANTENNA + PLACE TO INSTALL CRADLEPOINT R920 (ALL-IN-ONE)**

QuMax antenna for Cradlepoint R920 router is a perfect outdoor device for improving the signal in rural/suburban and locations where the mobile signal is weak. It has embedded directional 5G, omni Wi-Fi, Bluetooth and GPS antenna. If you use R920 with QuMax antenna, you get an integrated complete solution with embedded router and multi band antennas in one enclosure.

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



MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION



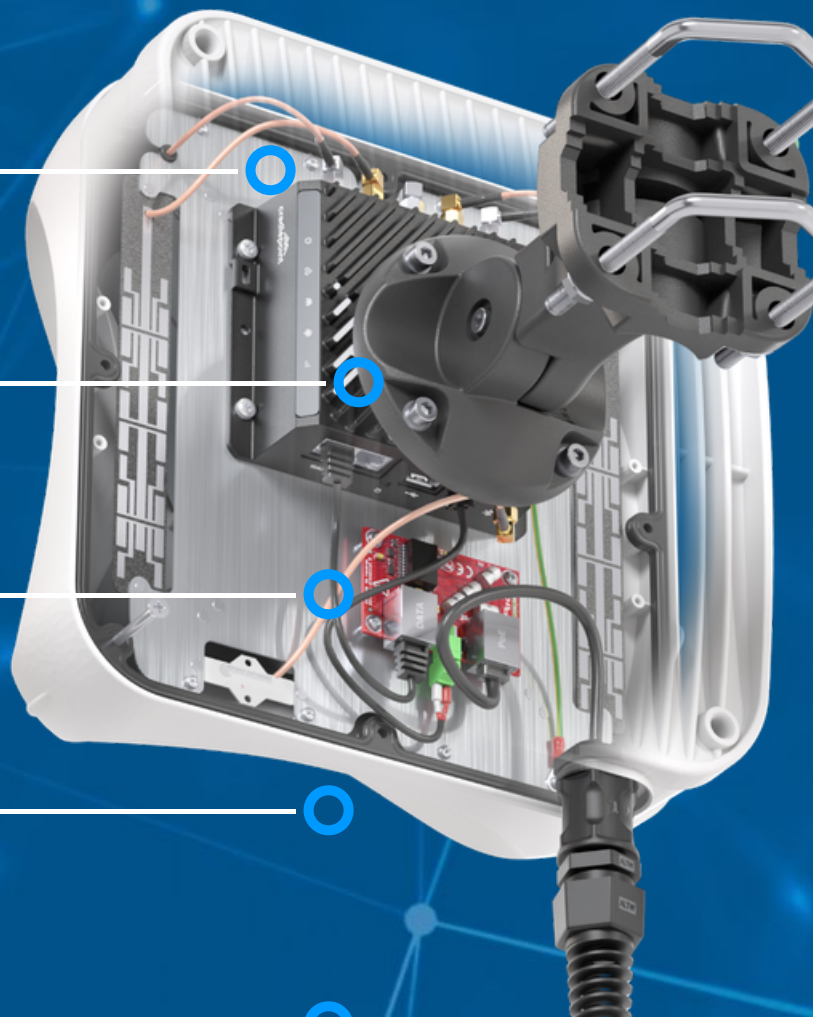
WIDE BAND 600-6000MHZ, 5G TECHNOLOGY



ANTENNA PERFECTLY MATCHED WITH THE CRADLEPOINT R920



ALL ANTENNAS AND CRADLEPOINT ROUTER INTEGRATED IN ONE ENCLOSURE



## 5G / LTE ANTENNA SPECIFICATION

|                     |  |
|---------------------|--|
| FREQUENCY           | 617 - 960 MHz<br>1.7 - 2.7 GHz<br>3.3 - 4.6 GHz<br>4.7 - 6.0 GHz   |
| GAIN                | 617 - 960 MHz : 6 dBi<br>1.7 - 2.7 GHz : 7 dBi<br>3.3 - 4.6 GHz : 7 dBi<br>4.7 - 6.0 GHz : 5.5dBi  |
| 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 |
| VSWR                | <2.00, max <3.00   |
| BEAMWIDTH           | 80°/80° ±15°   |
| POLARIZATION        | X (±45degrees)   |
| IMPEDANCE           | 50 $\Omega$  |
| CONNECTOR           | 2x SMA   |
| CABLE TYPE          | RG316  |

## WI-FI ANTENNA SPECIFICATION

|              |   |
|--------------|---|
| FREQUENCY    | 2.4 - 2.5 GHz<br>5.0 - 7.2 GHz                        |
| GAIN         | 2.4 - 2.5 GHz: 6dBi<br>5 GHz: 7.5dBi<br>7 GHz: 7.5dBi |
| VSWR         | < 1.50, max < 2.00                                    |
| BEAMWIDTH    | 360°/25°  |
| POLARIZATION | Vertical  |
| IMPEDANCE    | 50 $\Omega$   |
| CONNECTOR    | 2x RPSMA  |
| CABLE TYPE   | RG316   |

## GPS ACTIVE ANTENNA SPECIFICATION

|                   |                 |
|-------------------|-----------------|
| FREQUENCY         | 1.56 - 1.61 GHz |
| VSWR              | < 2             |
| GAIN              | 3 dBi           |
| GAIN 3V           | 28 dBi          |
| DC POWER INPUT    | 2.5 V ~ 6.5 V   |
| POWER CONSUMPTION | 2.5-6.5mA       |
| IMPEDANCE         | 50 $\Omega$     |

|                     |  |
|---------------------|--|
| <b>POLARIZATION</b> | RHCP (right hand circularly polarized) |
| <b>CONNECTOR</b>    | 1x SMA                                 |
| <b>CABLE TYPE</b>   | RG174                                  |

## MECHANICAL SPECIFICATION

|                              |  |
|------------------------------|--|
| <b>MATERIALS</b>             | ABS, aluminum, PTFE, fiberglass                |
| <b>CONNECTOR TYPE</b>        | RJ45   |
| <b>INGRESS PROTECTION</b>    | IP68   |
| <b>DIMENSIONS</b>            | 26.9 x 26.95 x 17.7 cm<br>10.6 x 10.6 x 7 inch |
| <b>WEIGHT</b>                | 2.8 kg<br>6.17 lbs                             |
| <b>OPERATING TEMPERATURE</b> | From -40°C to 80°C<br>From -40°F to 176°F      |
| <b>MAST DIAMETER</b>         | 25-66mm<br>0.98-2.60 inch                      |



# FREQUENCY BANDS

**LTE / 4G**

617  
MHz

|     |    |    |    |    |    |     |
|-----|----|----|----|----|----|-----|
| 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 |    |    |    |    |    |     |

6000  
MHz

**5G**

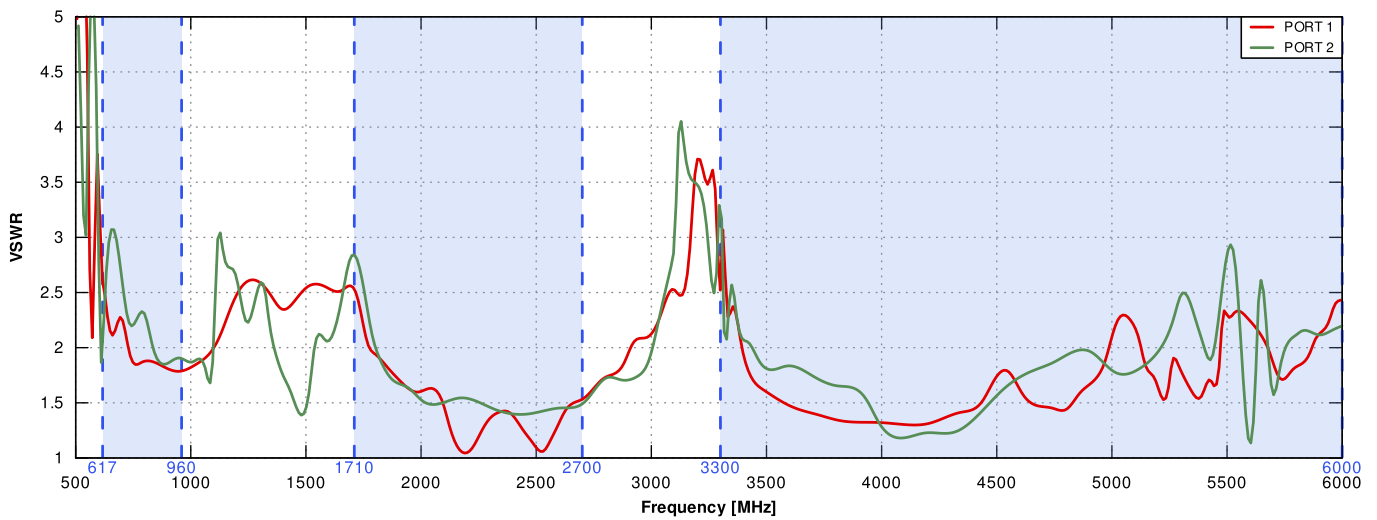
617  
MHz

|     |     |      |      |      |     |     |
|-----|-----|------|------|------|-----|-----|
| 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 | n255 |     |     |

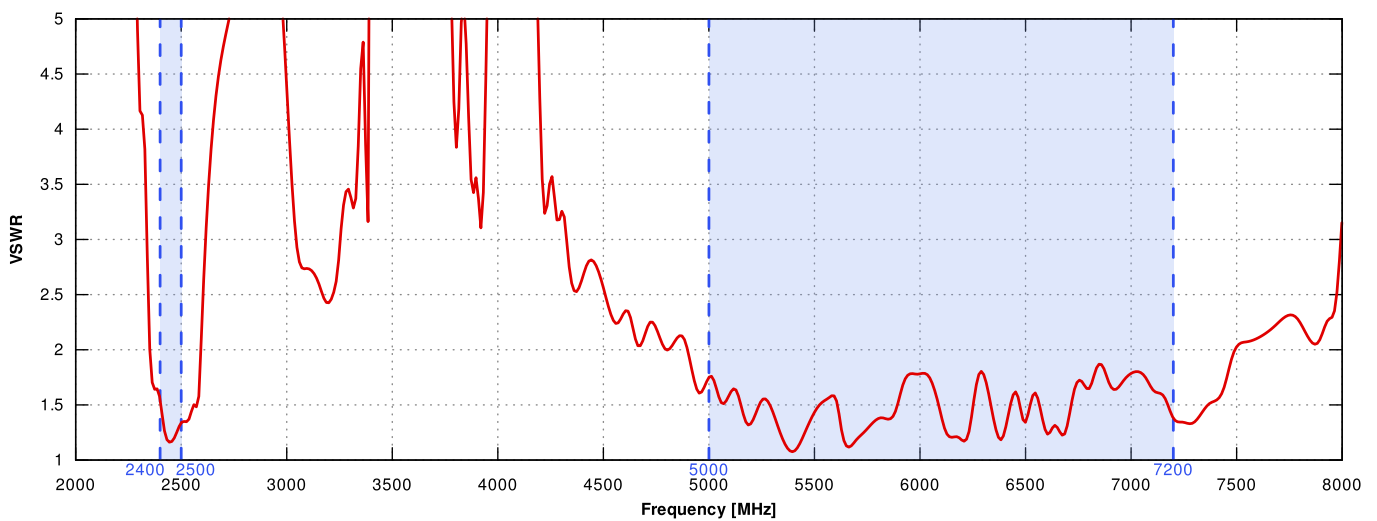
6000  
MHz

## PLOTS

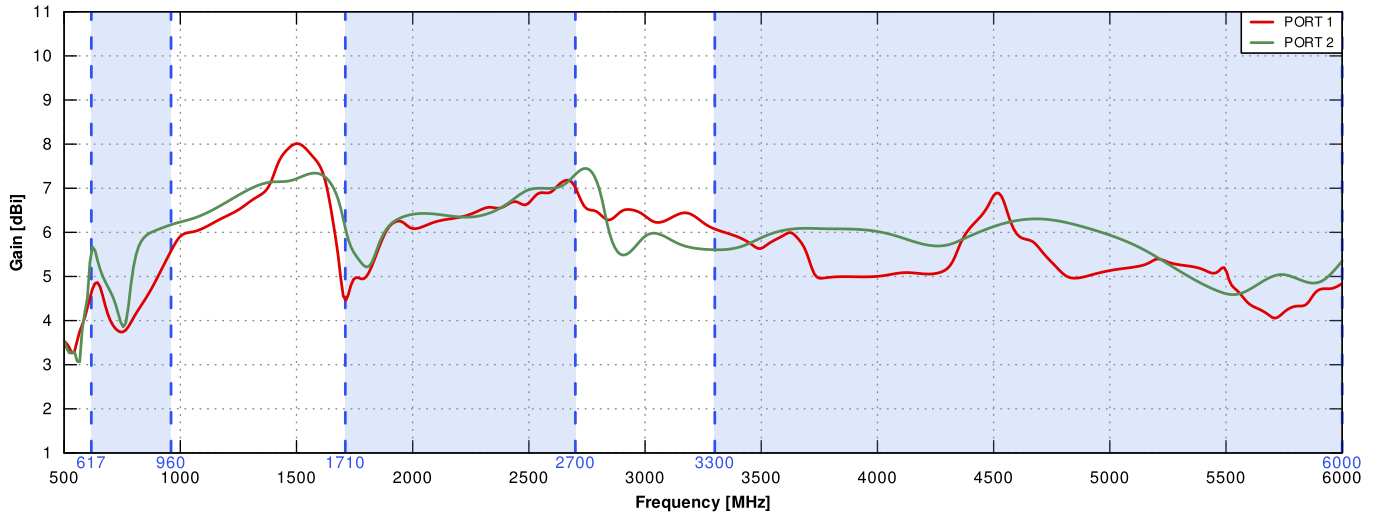
### LTE VSWR



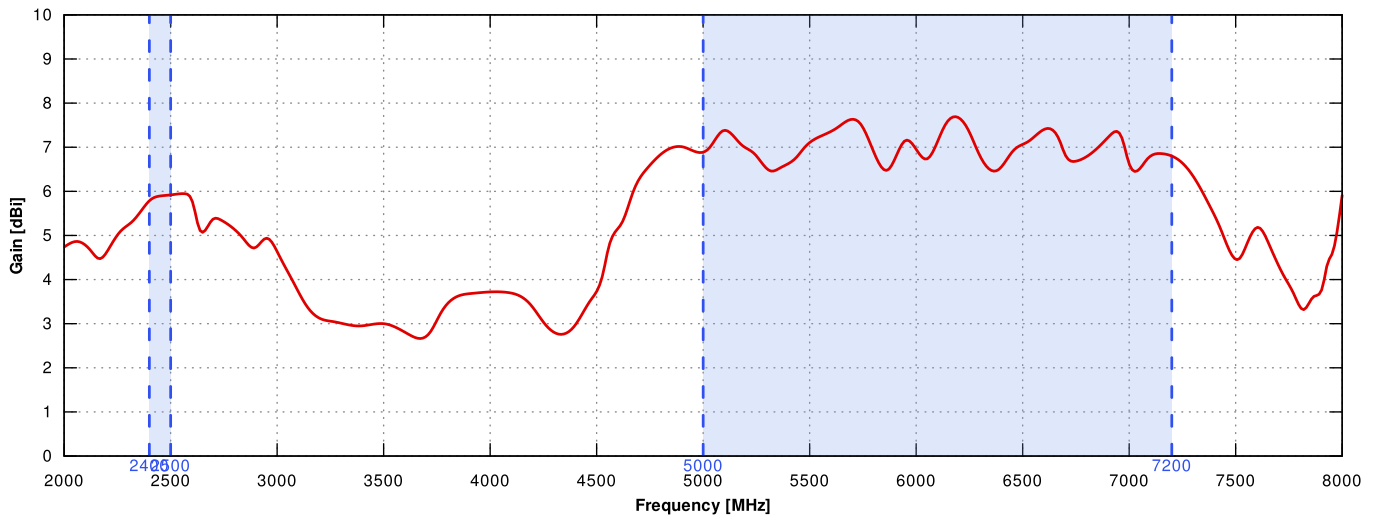
### WI-FI VSWR



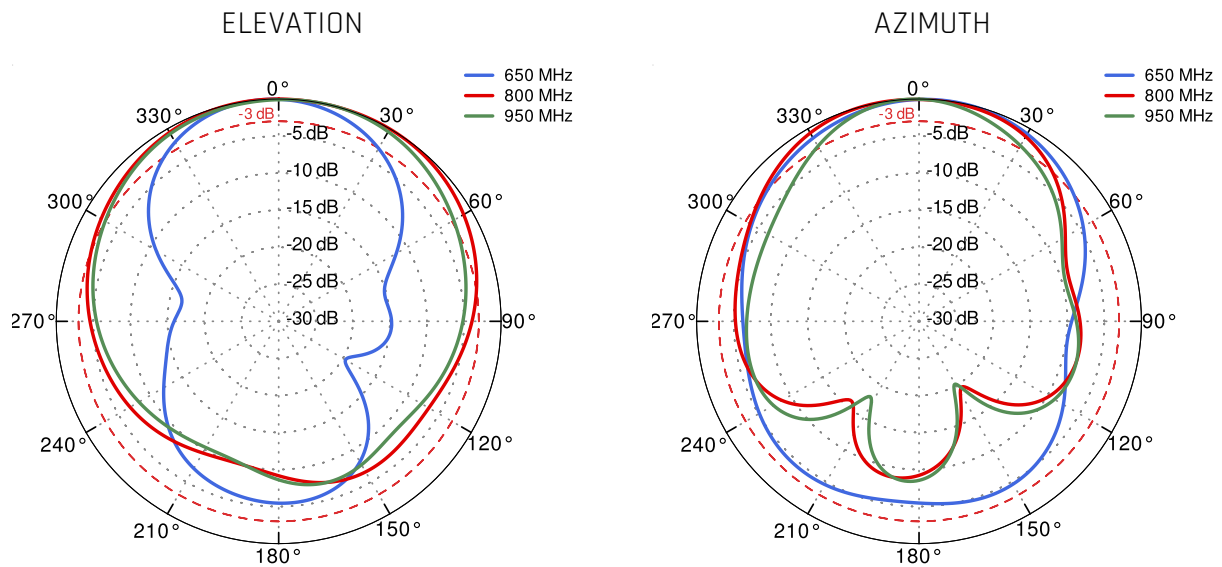
## LTE Gain



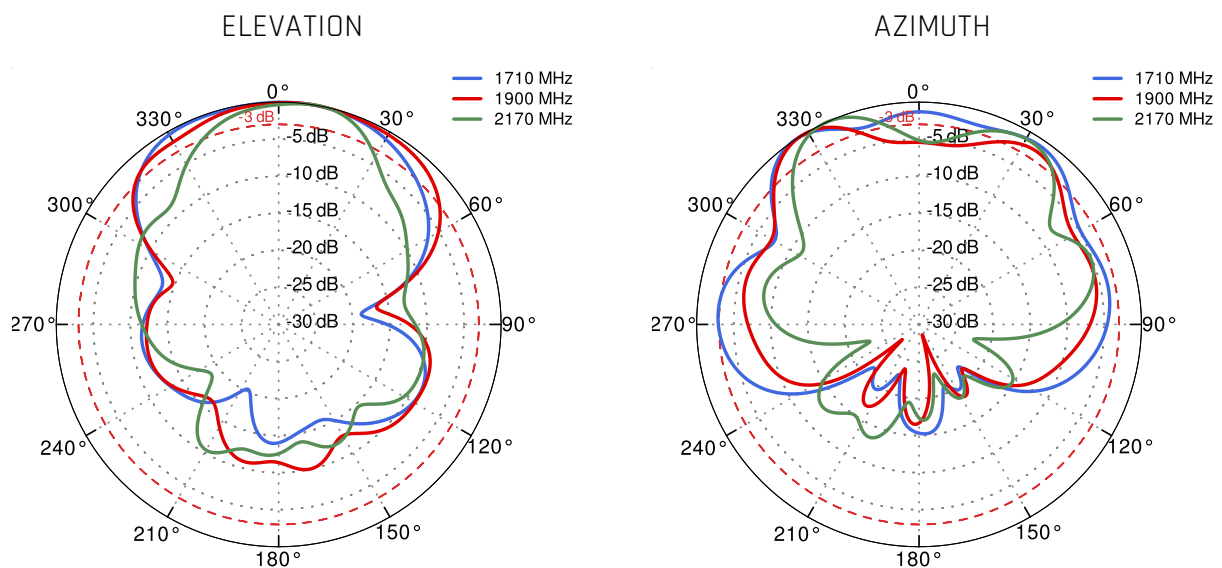
## WI-FI Gain



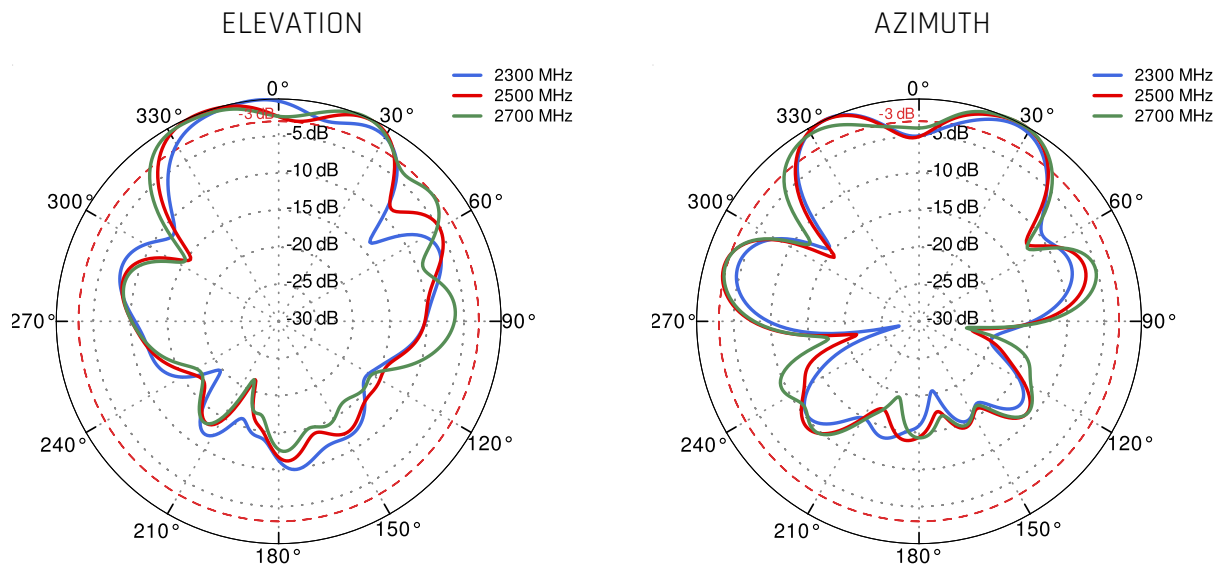
## PORT 1 - 5G/LTE from 650MHz to 950MHz



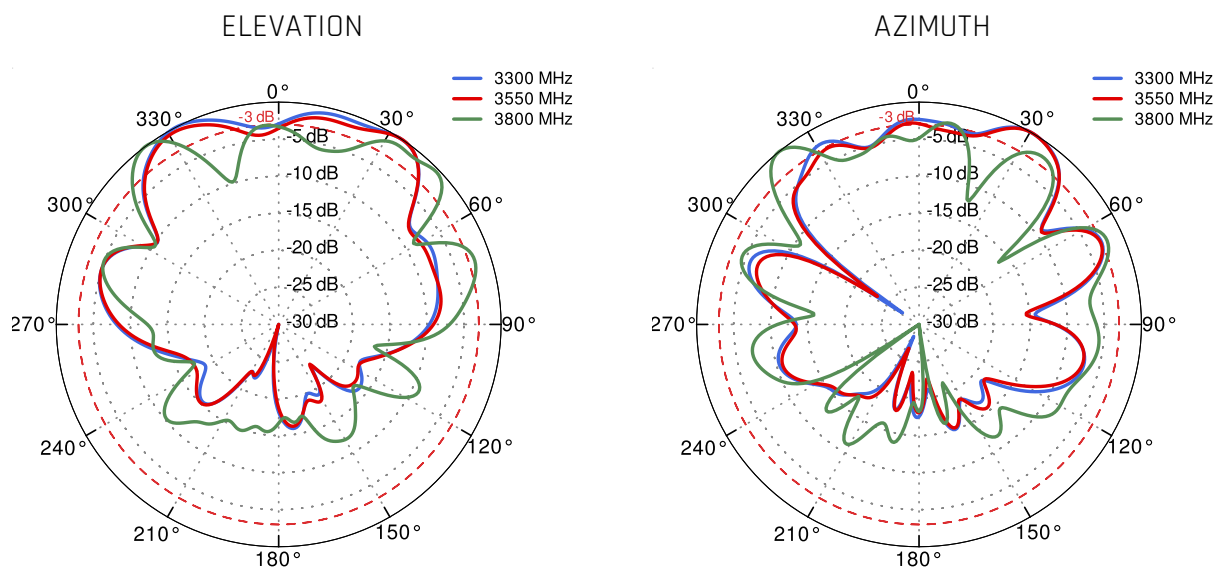
## PORT 1 - 5G/LTE from 1.71GHz to 2.17GHz



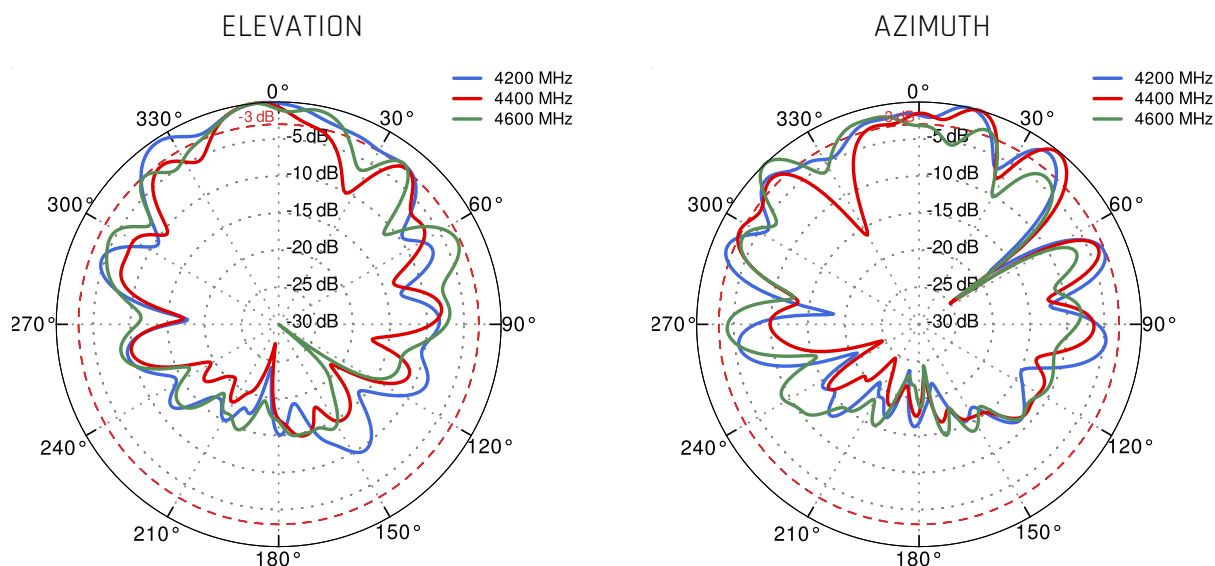
## PORT 1 - 5G/LTE from 2.3GHz to 2.7GHz



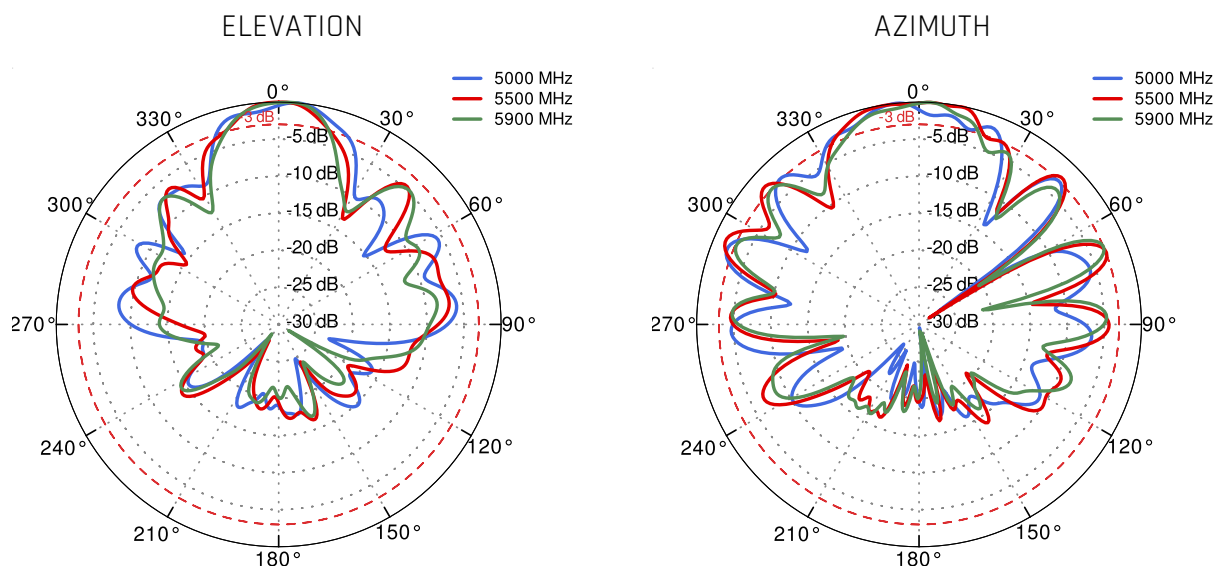
## PORT 1 - 5G/LTE from 3.3GHz to 3.8GHz



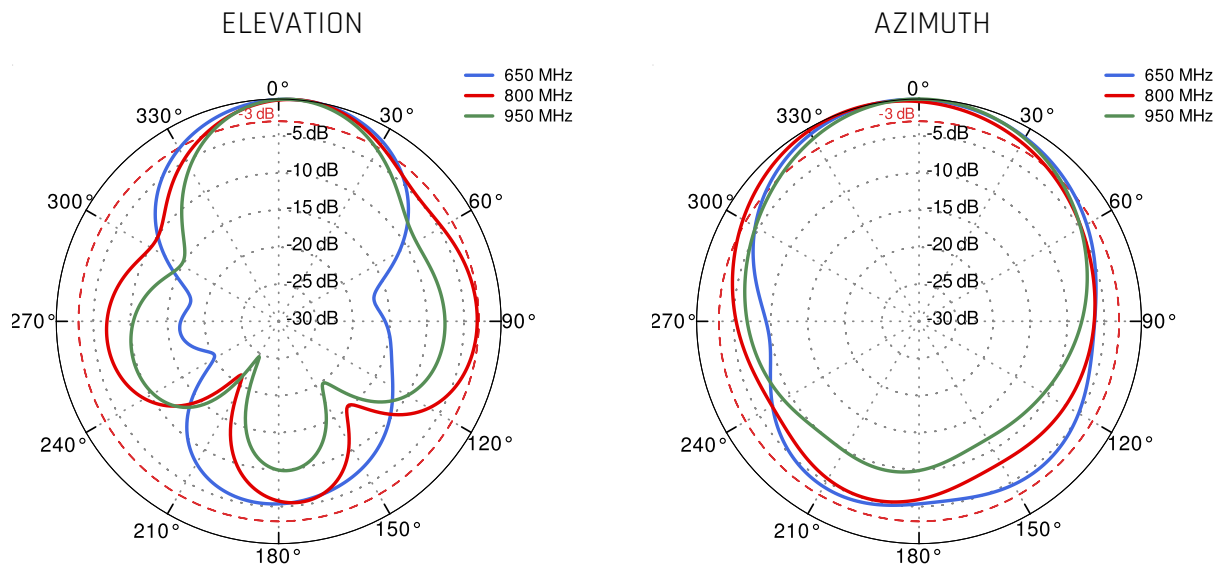
## PORT 1 - 5G/LTE from 4.2GHz to 4.6GHz



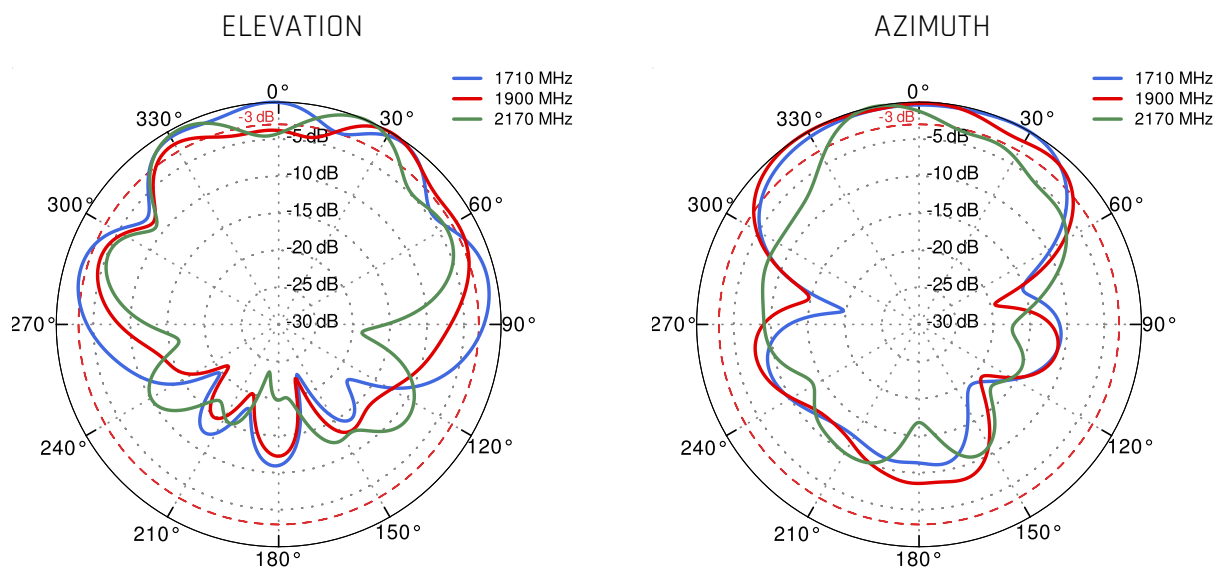
## PORT 1 - 5G/LTE from 5.0GHz to 5.9GHz



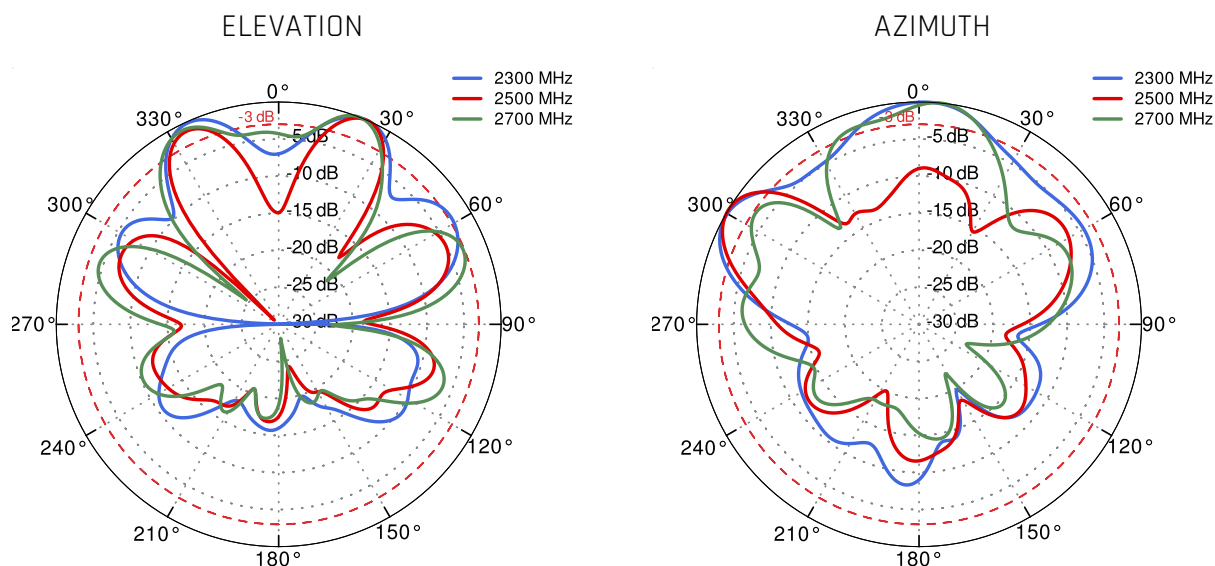
## PORT 2 - 5G/LTE from 650MHz to 950MHz



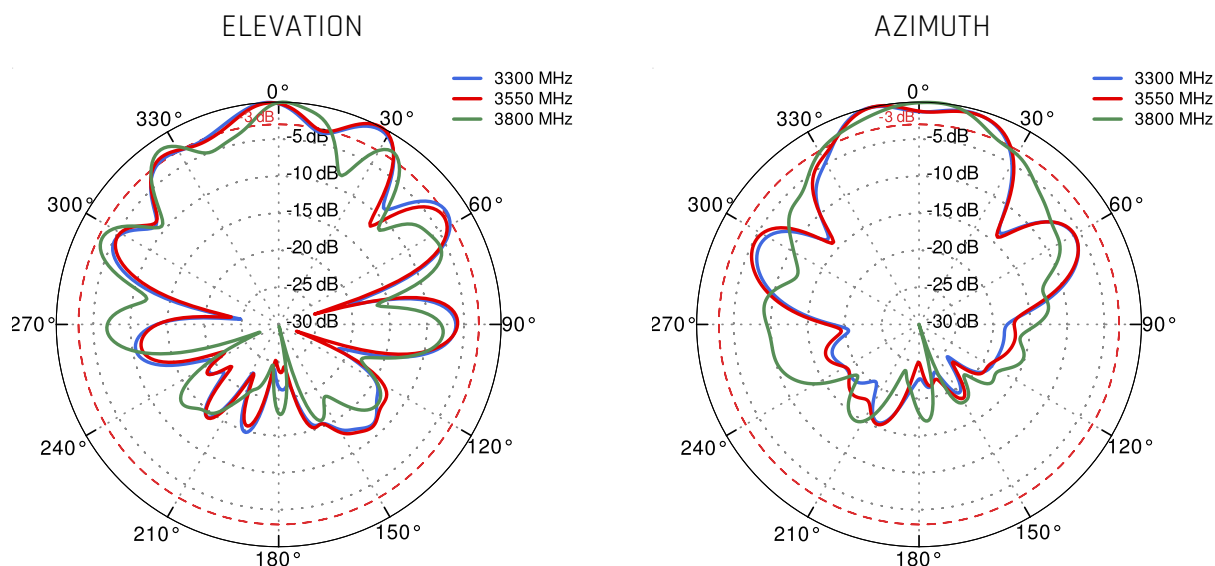
## PORT 2 - 5G/LTE from 1.71GHz to 2.17GHz



## PORT 2 - 5G/LTE from 2.3GHz to 2.7GHz

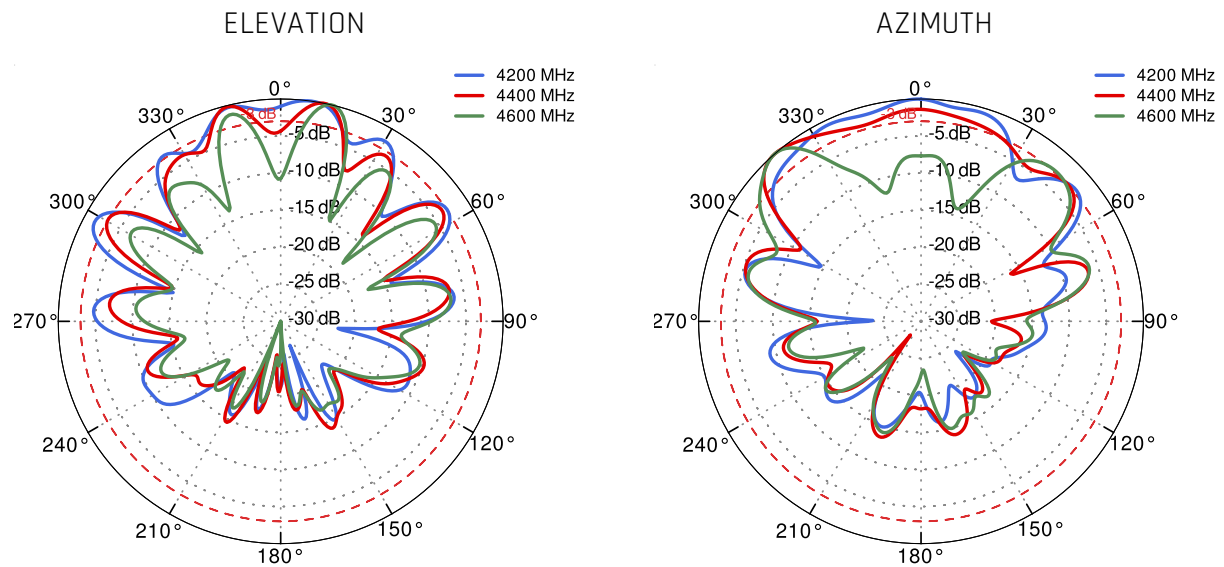


## PORT 2 - 5G/LTE from 3.3GHz to 3.8GHz

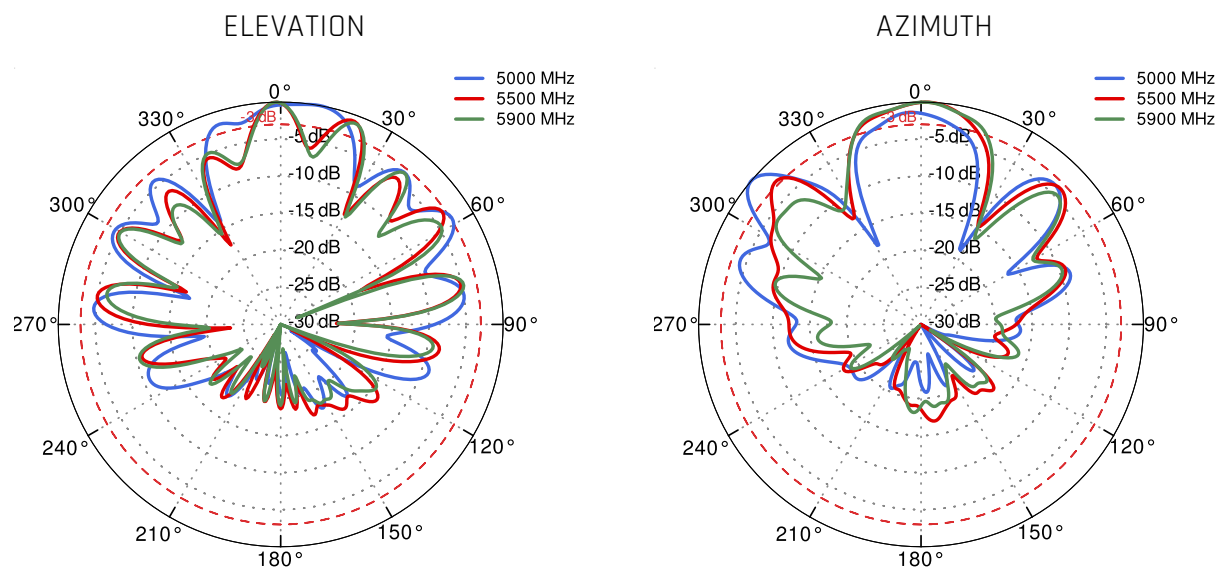




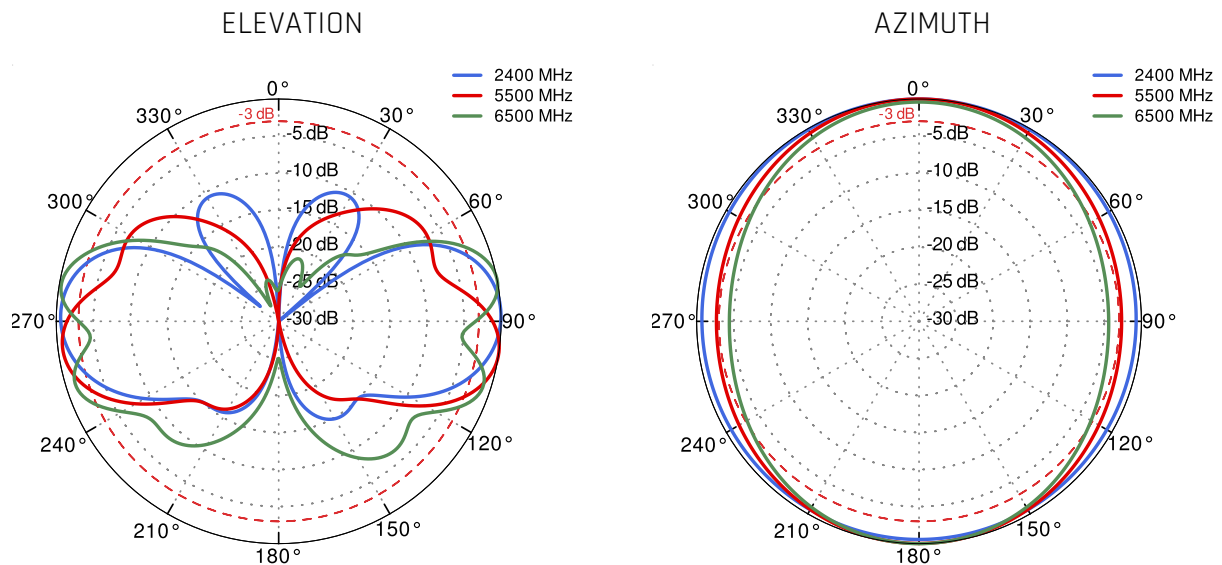
## PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz



## PORT 2 - 5G/LTE from 5.0GHz to 5.9GHz



## Wi-Fi From 2.4 GHz to 6.5 GHz



## DIMENSIONS

