

# QuMax for Cradlepoint IBR600C & IBR900 & R500

**INTEGRATED MULTI-BAND 5G DIRECTIONAL ANTENNA + WI-FI 6E OMNI ANTENNA + GPS ANTENNA + POE SPLITTER + PLACE TO INSTALL CRADLEPOINT IBR600C & IBR900 & R500 (ALL-IN-ONE)**

QuMax antenna for Cradlepoint IBR600C & IBR900 & R500 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 and GPS antenna. If you use IBR600c, IBR900 or R500 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 IBR600C & IBR900 & R500



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 $\Omega$  |

## 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 $\Omega$   |

## MECHANICAL SPECIFICATION

|                       |  |
|-----------------------|--|
| MATERIALS             | ABS, aluminum, PTFE, fiberglass                |
| CONNECTOR TYPE        | RJ45   |
| INGRESS PROTECTION    | IP68   |
| DIMENSIONS            | 26.9 x 26.95 x 17.7 cm<br>10.6 x 10.6 x 7 inch |
| WEIGHT                | 2.8 kg<br>6.17 lbs                             |
| OPERATING TEMPERATURE | From -40°C to 80°C<br>From -40°F to 176°F      |
| MAST DIAMETER         | 25-60mm<br>0.98-2.36 inch                      |

# FREQUENCY BANDS

LTE / 4G

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

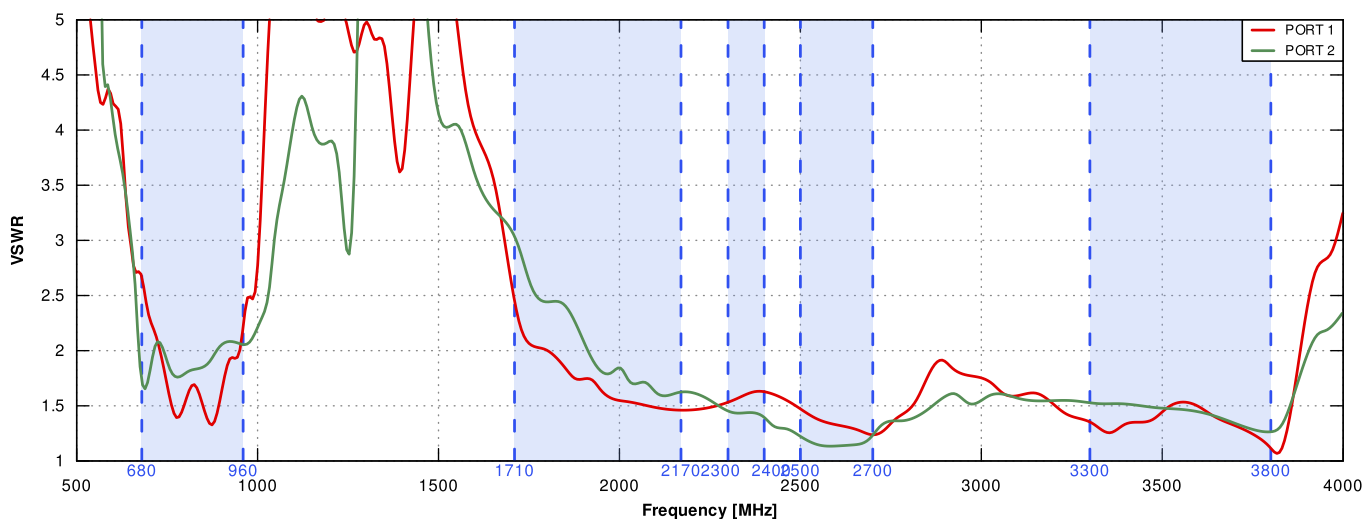
5G

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

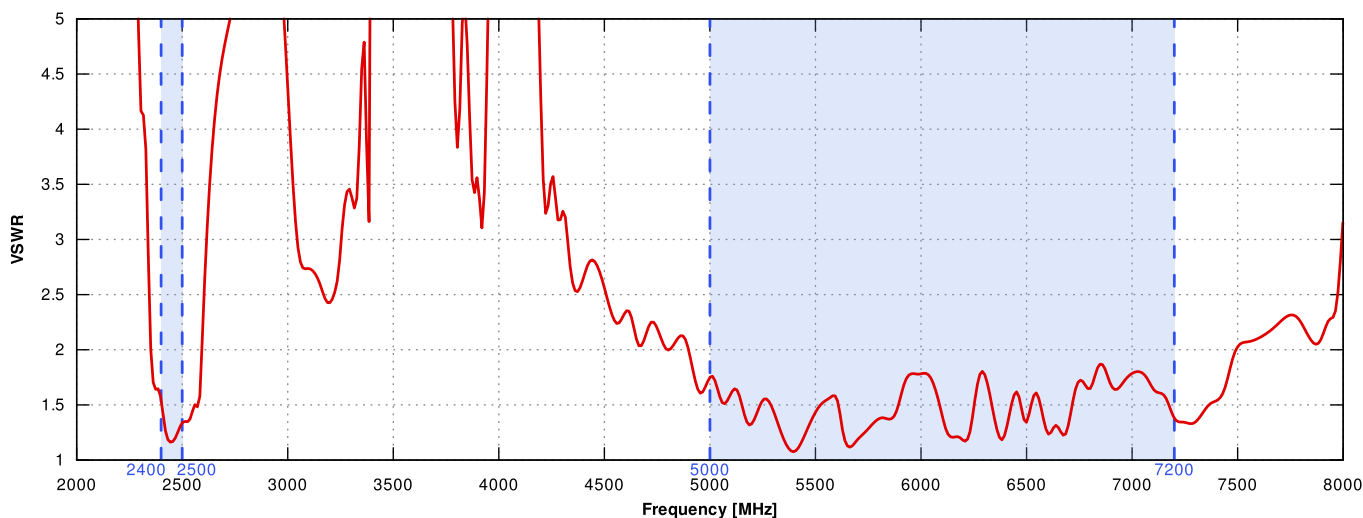


# PLOTS

## 5G/LTE VSWR

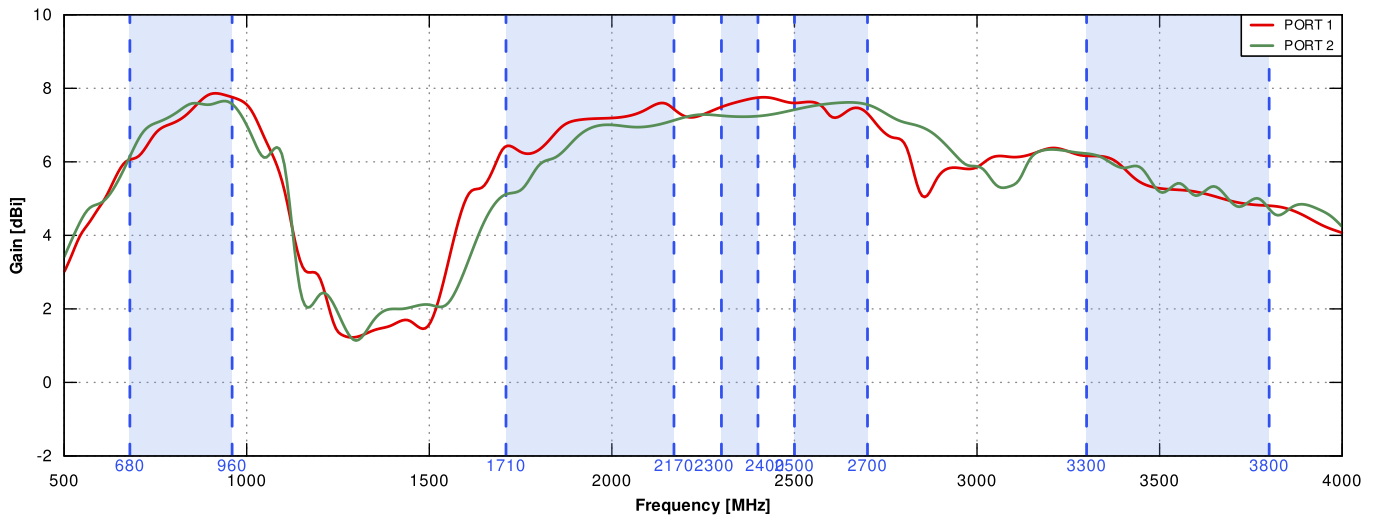


## WI-FI VSWR

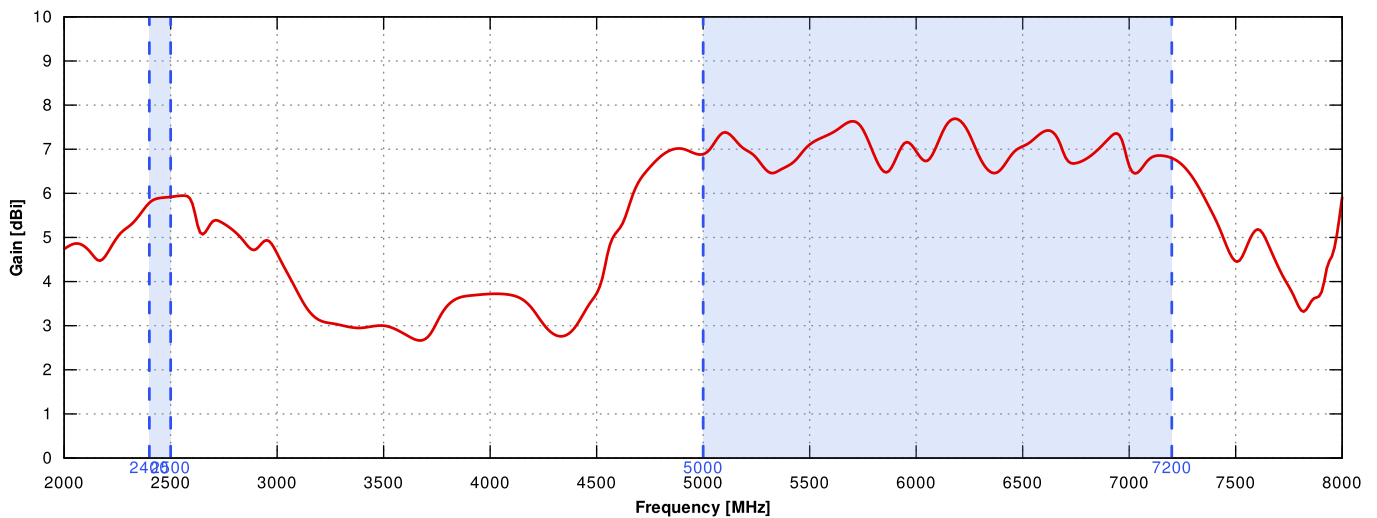




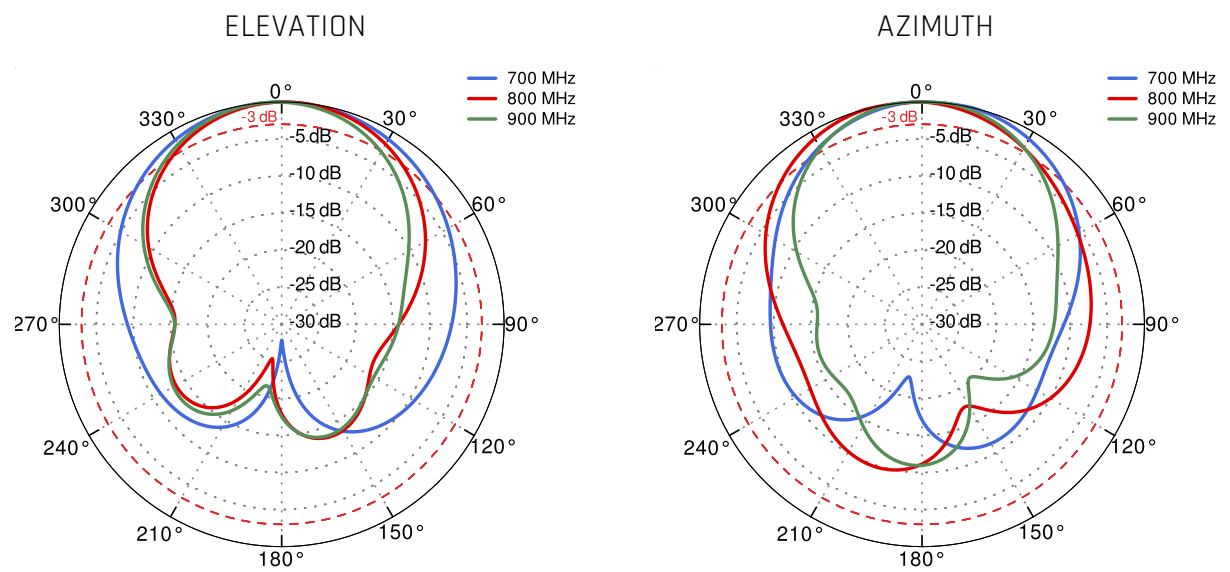
## LTE Gain



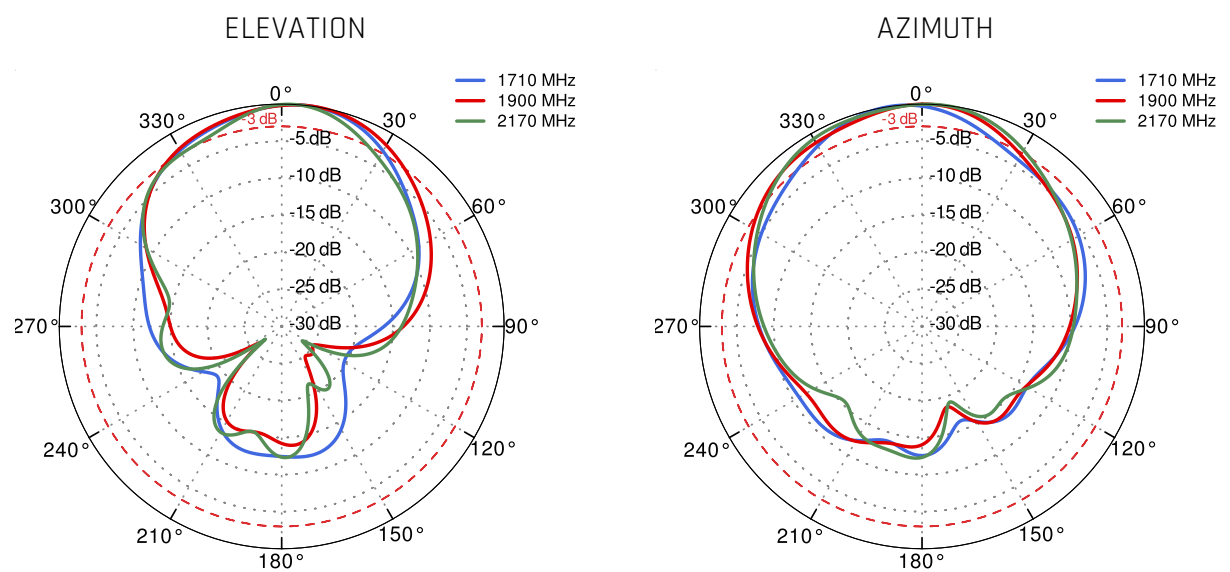
## WI-FI Gain



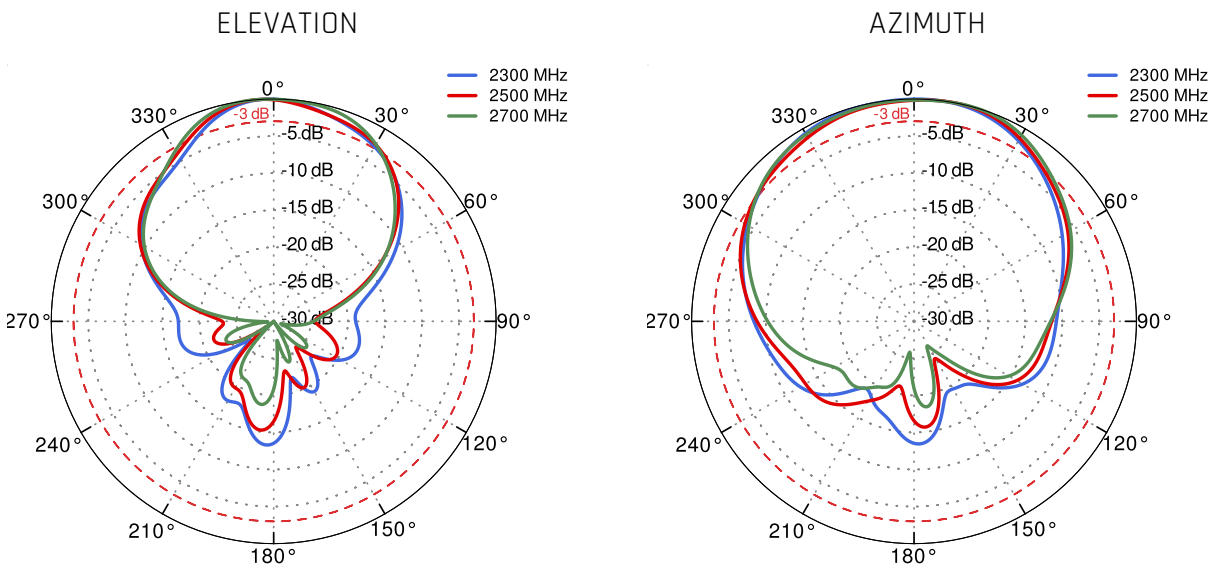
PORT 1 - 5G/LTE from 700MHz to 900MHz



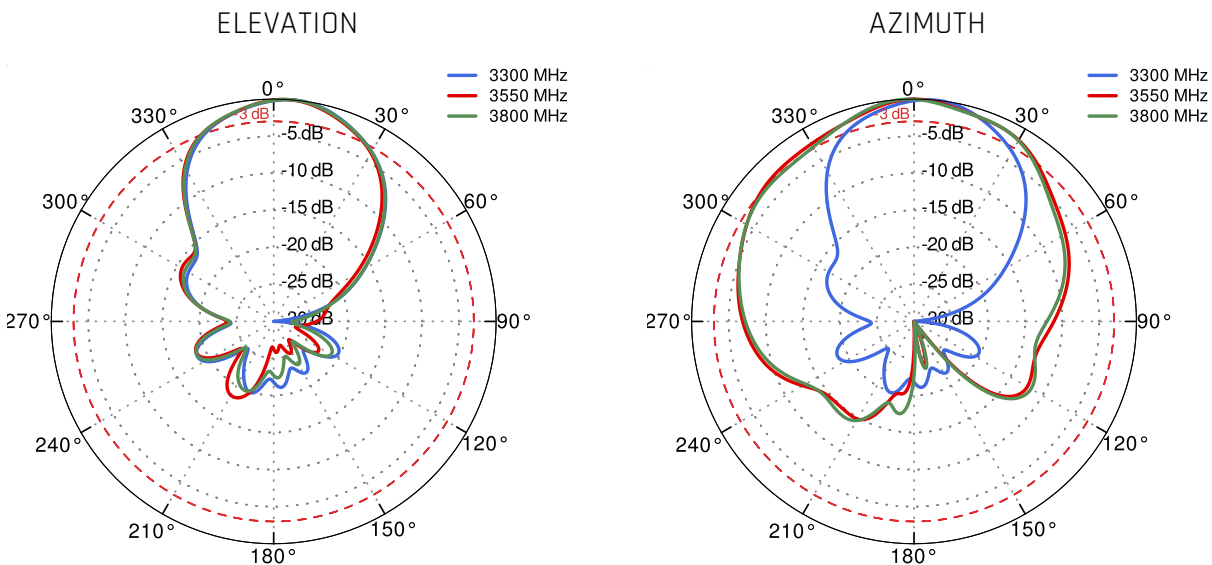
PORT 1 - 5G/LTE from 1.71GHz to 2.17GHz



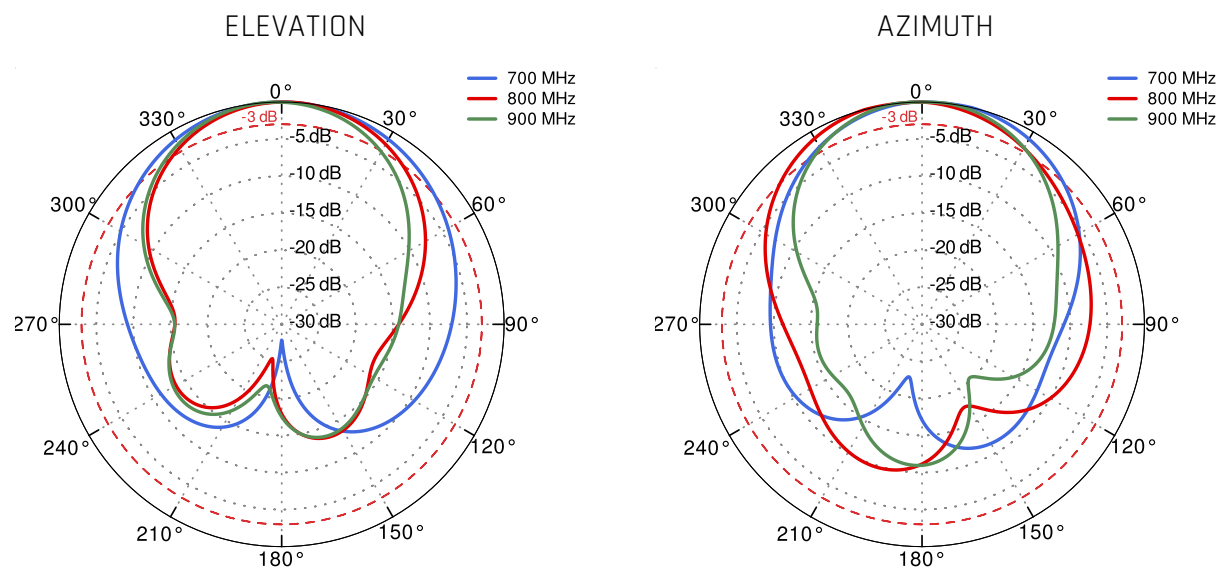
PORT 1 - 5G/LTE from 2.3GHz to 2.7GHz



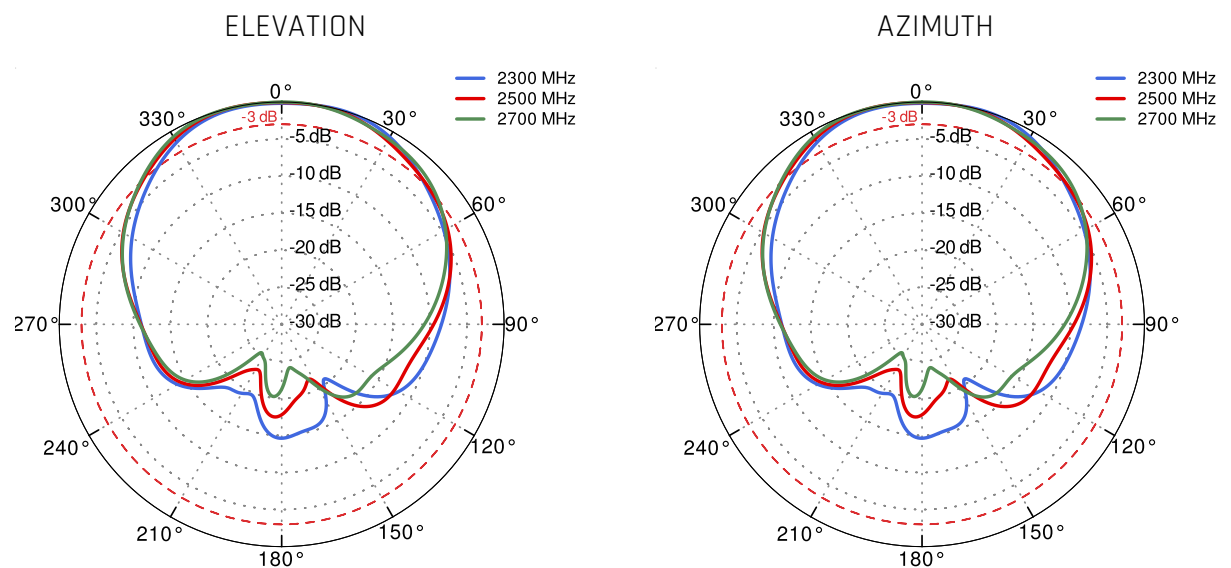
PORT 1 - 5G/LTE from 3.3GHz to 3.8GHz



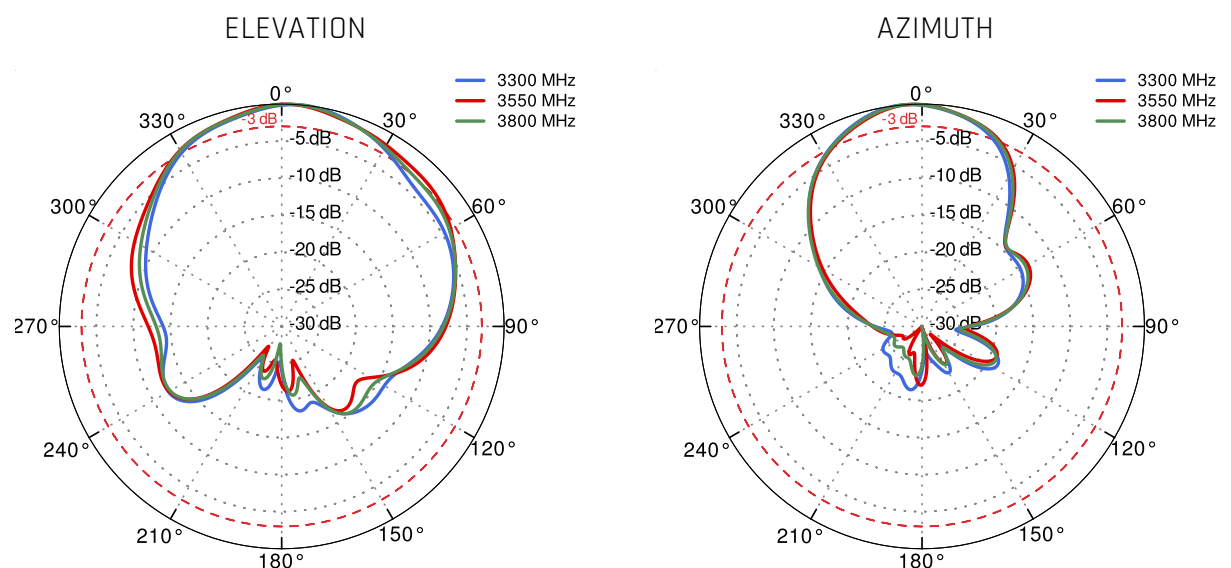
PORT 2 - 5G/LTE from 700MHz to 900MHz



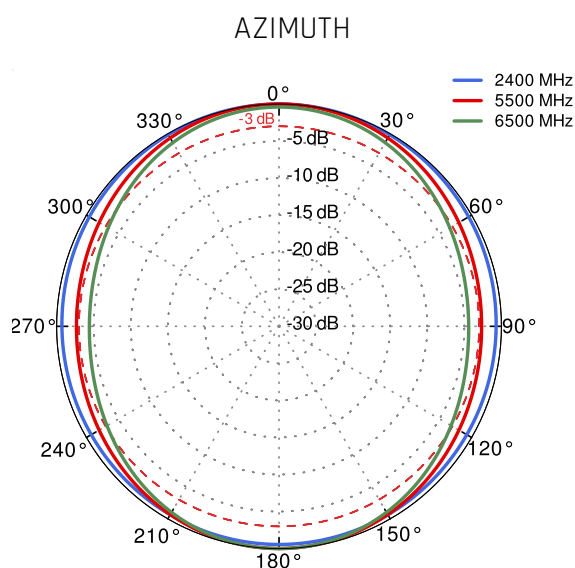
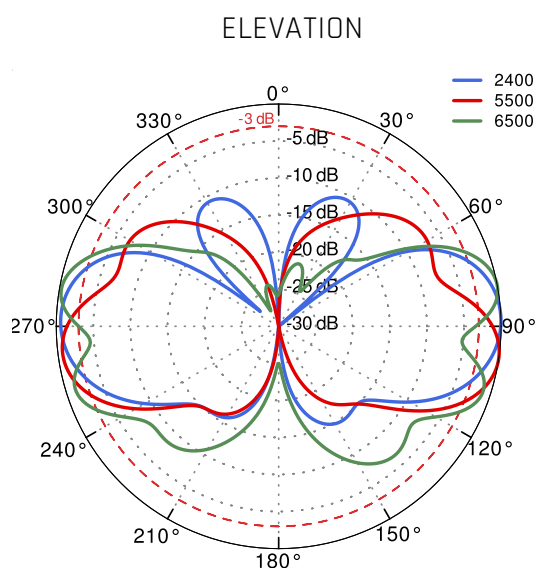
PORT 2 - 5G/LTE from 2.3GHz to 2.7GHz



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



## Wi-Fi From 2.4 GHz to 6.5 GHz



## DIMENSIONS

