

# QuMax for Robustel R3000

**INTEGRATED MULTI-BAND 5G DIRECTIONAL ANTENNA + WI-FI 6E OMNI ANTENNA + GPS ANTENNA + POE SPLITTER + PLACE TO INSTALL ROBUSTEL R3000 (ALL-IN-ONE)**

QuMax antenna for Robustel R3000 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 6E and GPS antenna. If you use R3000 with QuMax antenna, you get an integrated complete solution with embedded router and multi band antennas in one enclosure.

Wi-Fi 6E support!

The set contains a 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, IP67



MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION



WIDE BAND 600-6000MHZ, 5G TECHNOLOGY



ANTENNA PERFECTLY MATCHED WITH THE ROBUSTEL R3000



ALL ANTENNAS AND ROBUSTEL 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    | IP67   |
| 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  |             |
| 617<br>MHz | 29  | 30 | 33 | 34 | 35 | 36 | 37  | 6000<br>MHz |
|            | 38  | 39 | 40 | 41 | 42 | 43 | 44  |             |
|            | 46  | 47 | 48 | 49 | 52 | 53 | 65  |             |
|            | 66  | 67 | 68 | 69 | 71 | 85 | 103 |             |
|            | 106 |    |    |    |    |    |     |             |

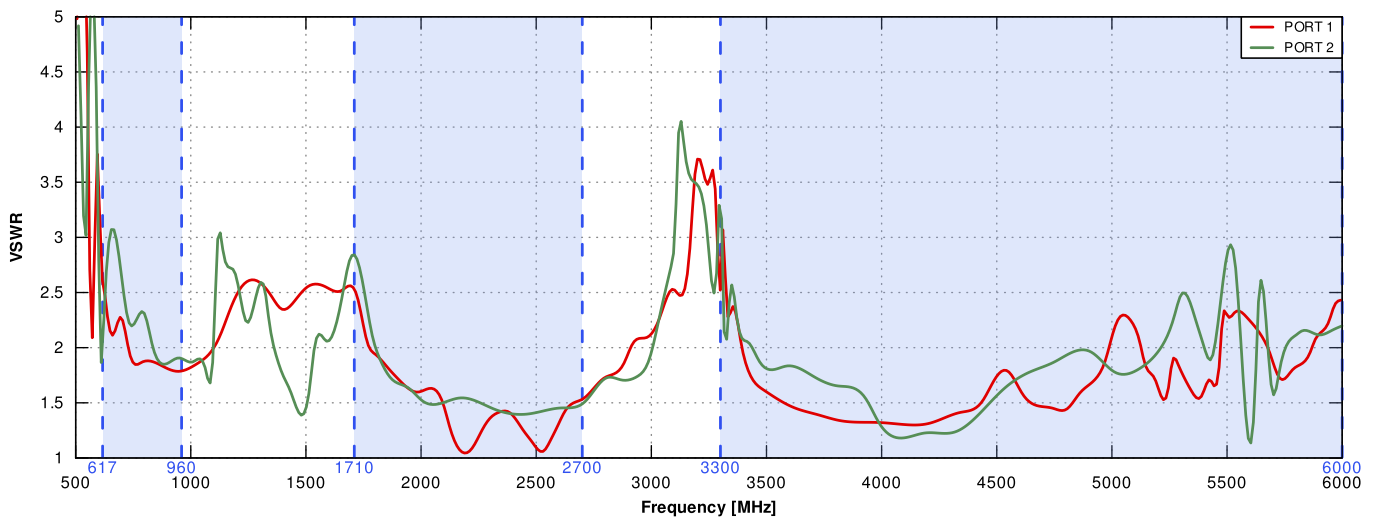
**5G**

|            |     |     |      |      |      |     |     |             |
|------------|-----|-----|------|------|------|-----|-----|-------------|
|            | n1  | n2  | n3   | n5   | n7   | n8  | n12 |             |
|            | n13 | n14 | n18  | n20  | n25  | n26 | n28 |             |
|            | n29 | n30 | n34  | n38  | n39  | n40 | n41 |             |
| 617<br>MHz | n46 | n47 | n48  | n53  | n65  | n66 | n67 | 6000<br>MHz |
|            | n71 | n77 | n78  | n79  | n80  | n81 | n82 |             |
|            | n83 | n84 | n85  | n86  | n89  | n90 | n95 |             |
|            | n97 | n98 | n100 | n101 | n255 |     |     |             |

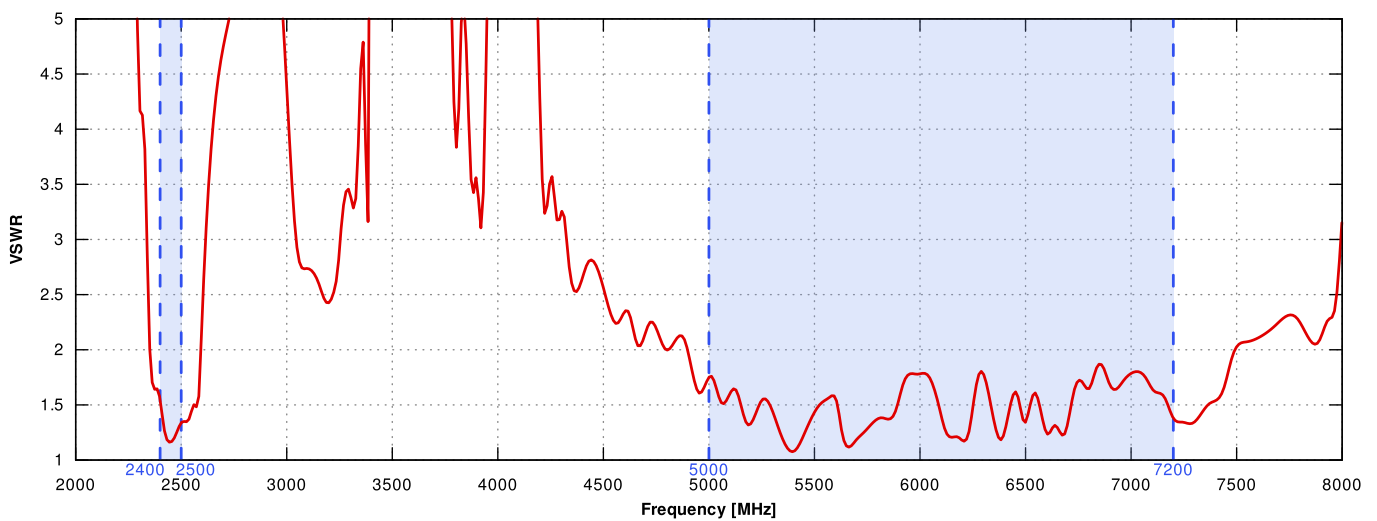


## PLOTS

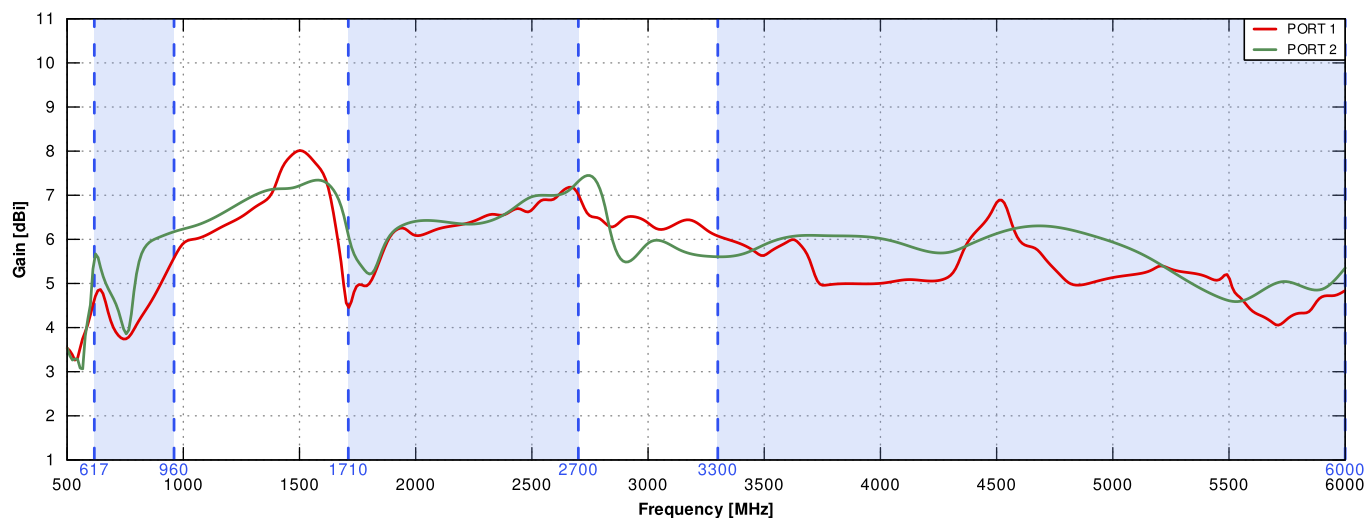
### LTE VSWR



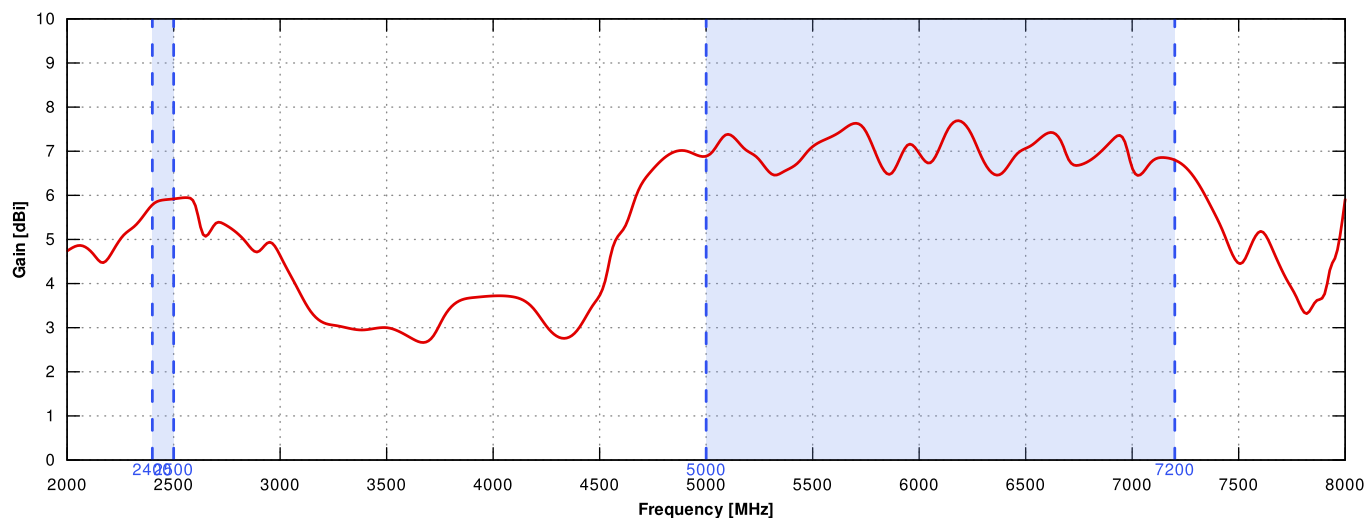
### WI-FI VSWR



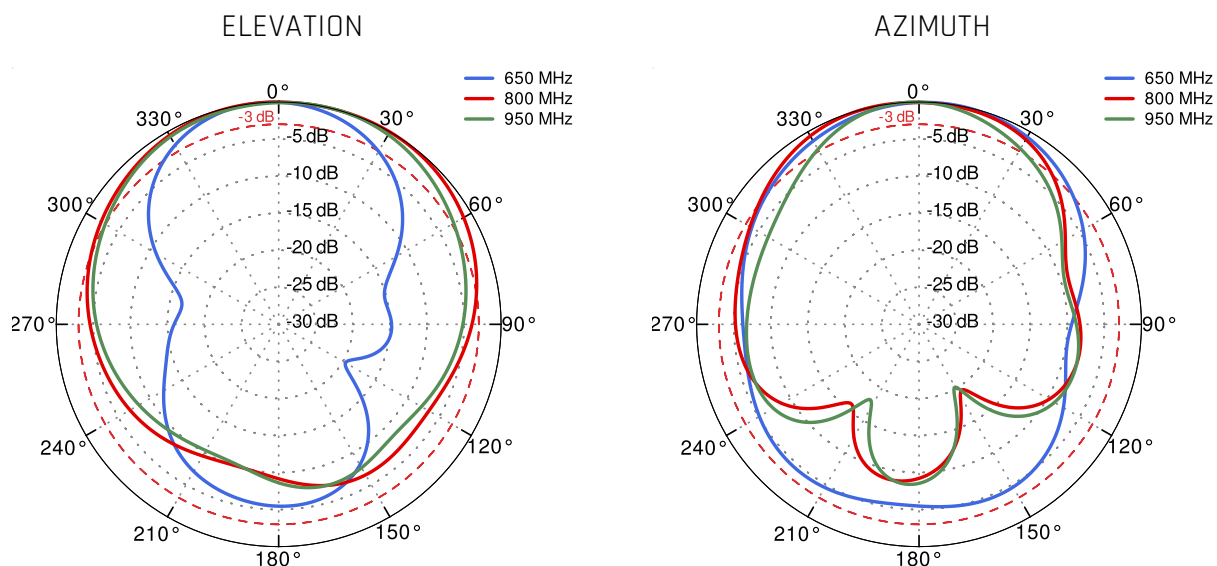
## LTE Gain



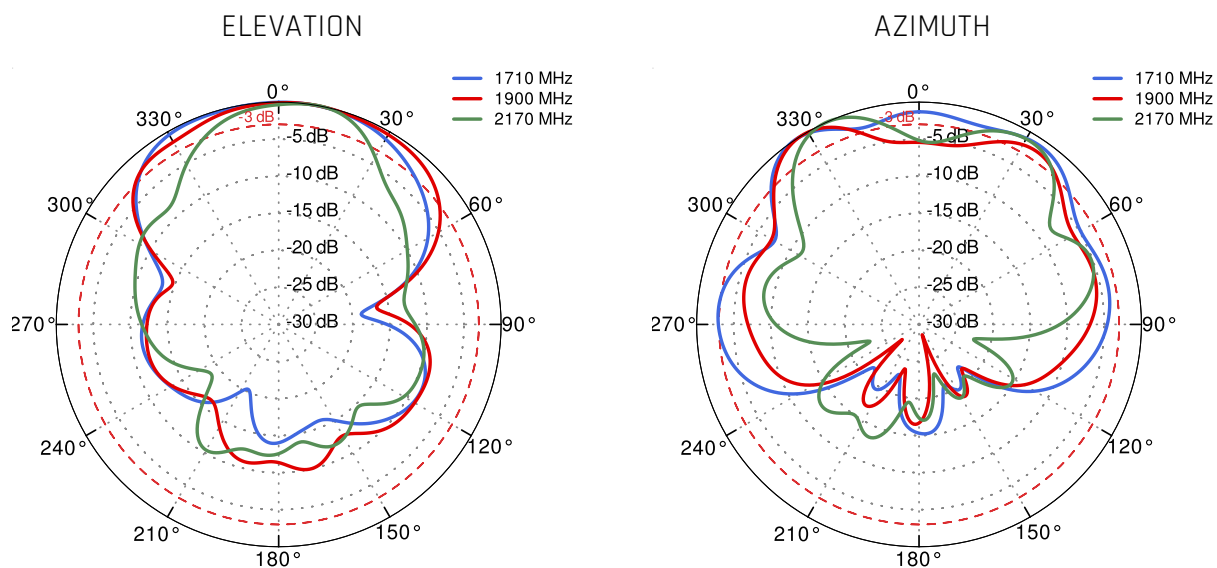
## WI-FI Gain



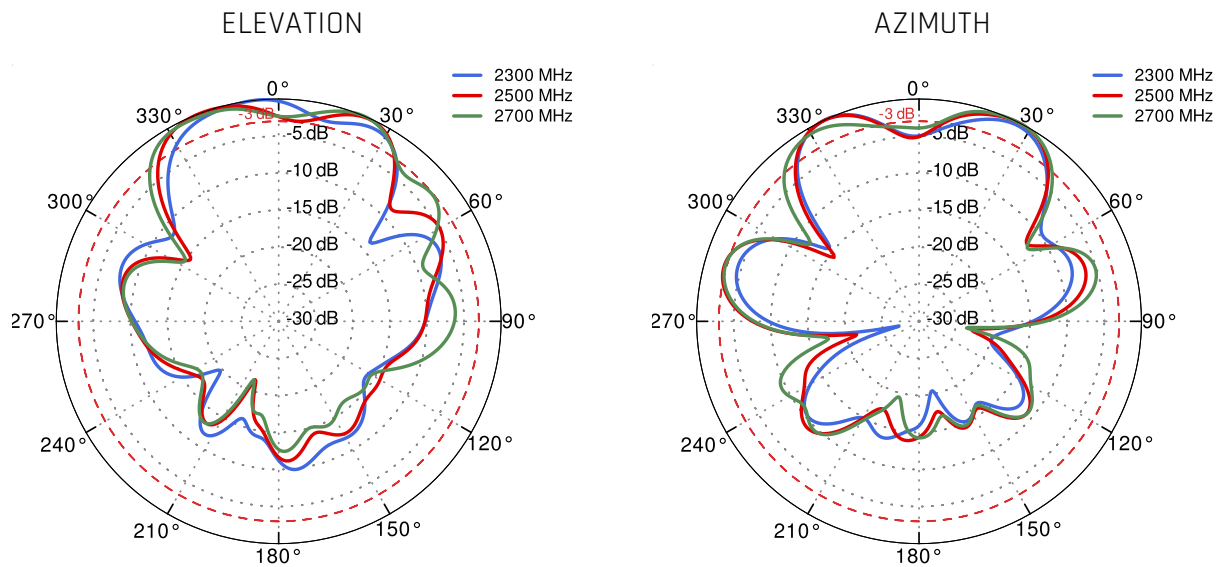
## PORT 1 - 5G/LTE from 650MHz to 950MHz



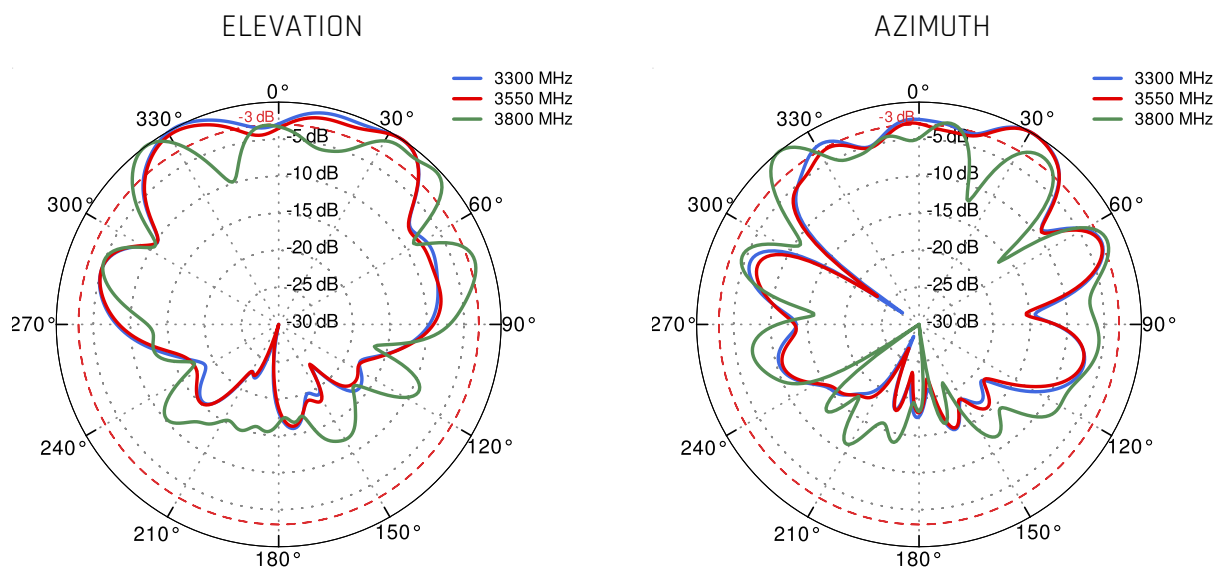
## PORT 1 - 5G/LTE from 1.71GHz to 2.17GHz



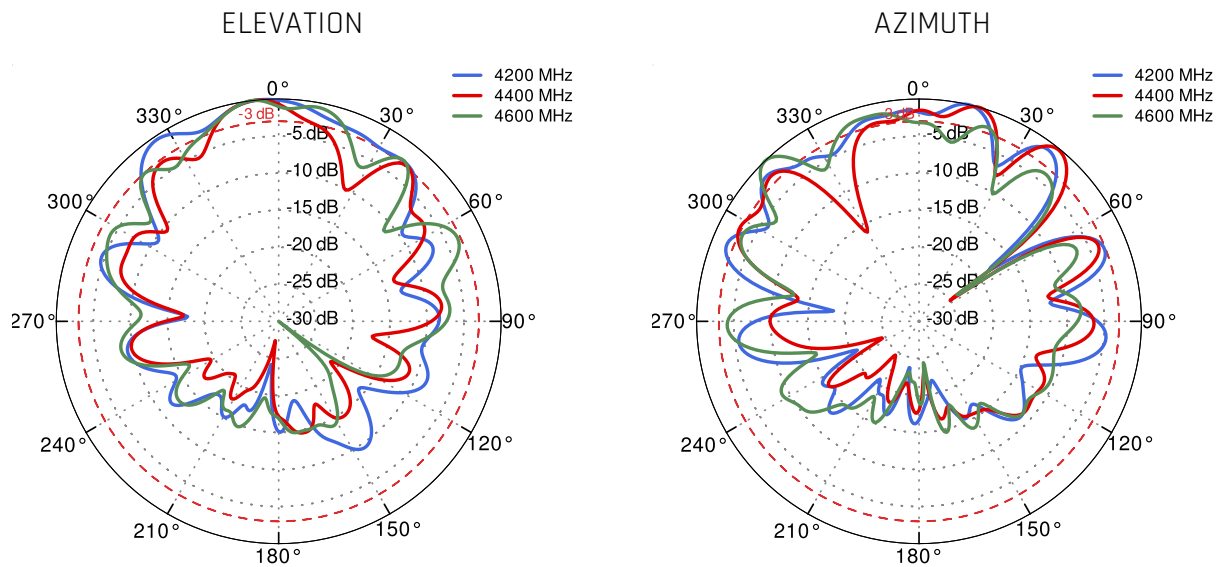
## PORT 1 - 5G/LTE from 2.3GHz to 2.7GHz



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



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



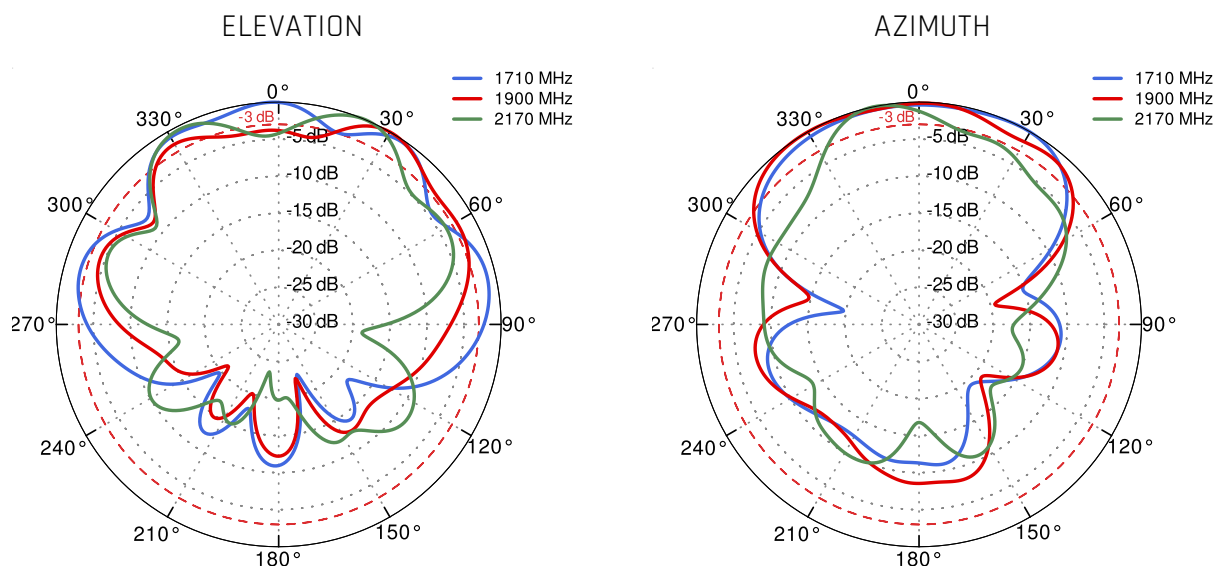
## PORT 1 - 5G/LTE from 5.0GHz to 5.9GHz



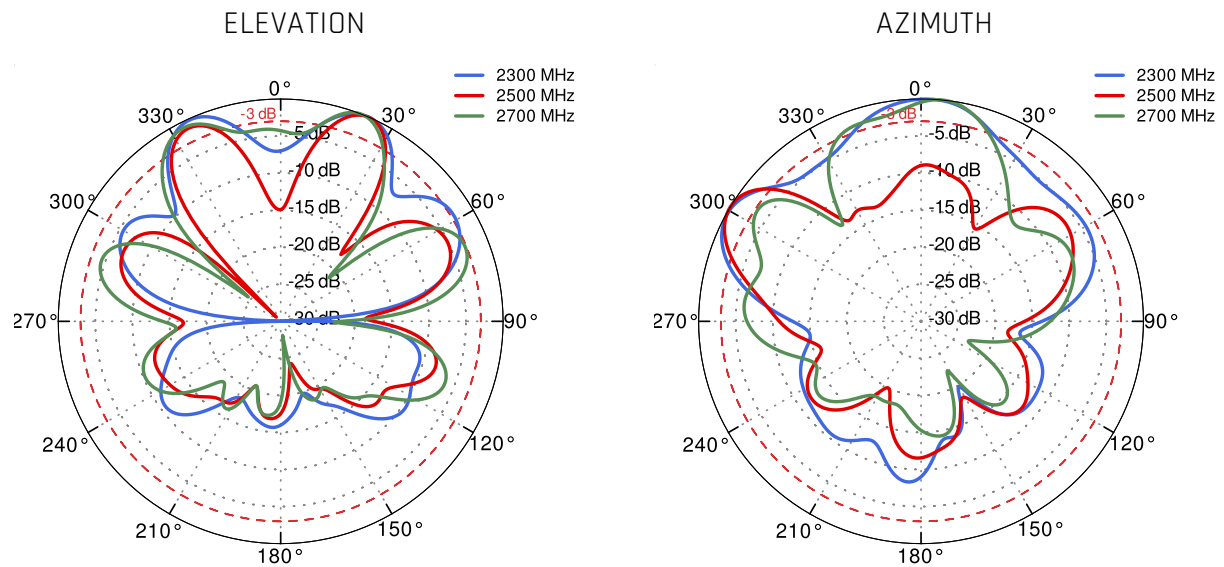
## PORT 2 - 5G/LTE from 650MHz to 950MHz



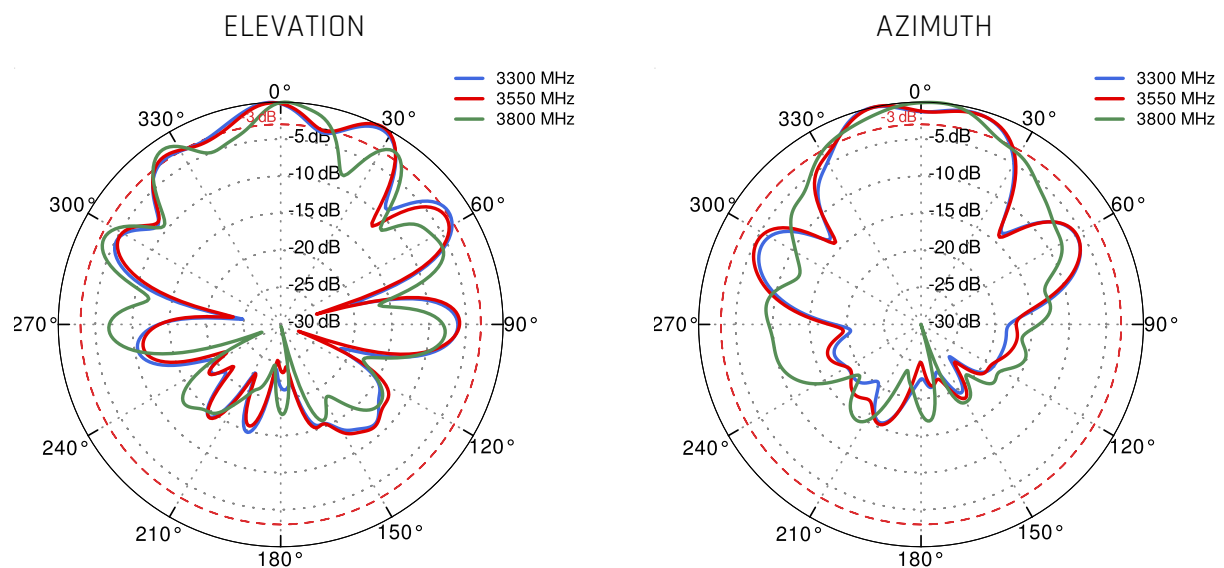
## PORT 2 - 5G/LTE from 1.71GHz to 2.17GHz



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

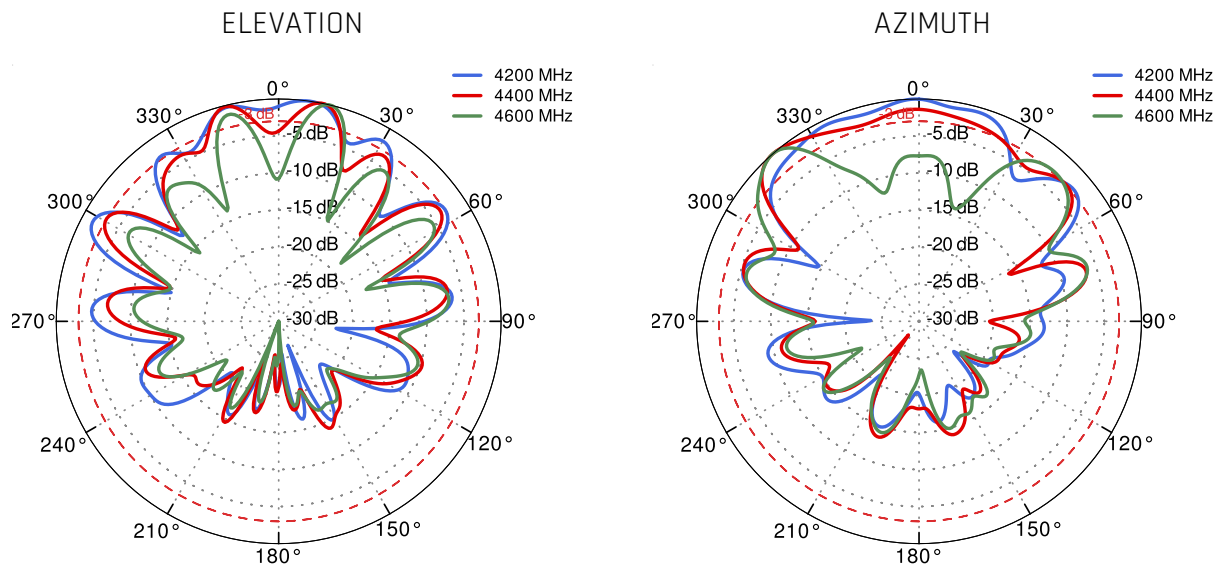


## PORT 2 - 5G/LTE from 3.3GHz to 3.8GHz

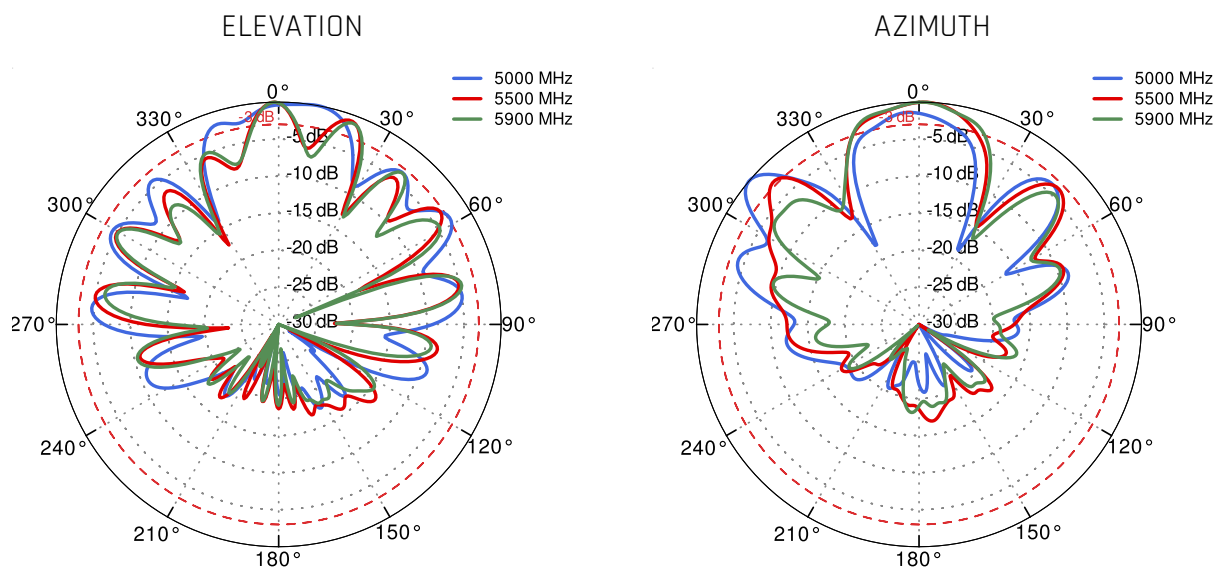




## PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz



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





## Wi-Fi From 2.4 GHz to 6.5 GHz



## DIMENSIONS

