

# QuMax for Teltonika TRB501

## INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + PLACE TO INSTALL TELTONIKA TRB501 (ALL-IN-ONE)

**QuMax for TRB501** is a high performance directional antenna designed for use in a variety of wireless communication applications. This all-in-one product consists of multi-band 5G antennas integrated in IP68 enclosure. It offers 7,5 dBi gain and wide beamwidth, which makes it suitable for use in both urban and rural environments.

Combining QuMax with TRB501 inside the antenna housing gives you complete outdoor solution with multiple use scenarios such as transportation public, energy, mining IoT and more.



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



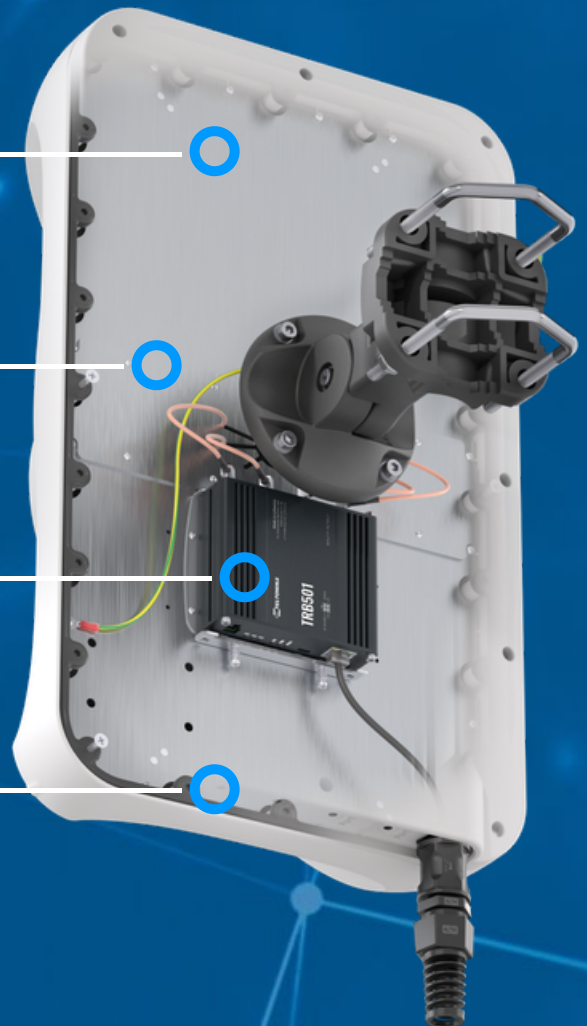
ANTENNA **PERFECTLY MATCHED** WITH THE ROUTER



PASSIVE **POE SUPPORT**



MADE IN **EUROPE**



## 5G / LTE ANTENNA SPECIFICATION

|                            |   |
|----------------------------|---|
| <b>FREQUENCY</b>           | 0.617 - 0.96 GHz<br>1.7 - 2.7 GHz<br>3.3 - 4.6 GHz<br>4.7 - 6.0 GHz   |
| <b>GAIN</b>                | 0.617 - 0.96 GHz: 6 dBi<br>1.7 - 2.7 GHz: 7 dBi<br>3.3 - 4.6 GHz: 7 dBi<br>4.7 - 6.0 GHz: 5.5 dBi   |
| <b>SUPPORTED LTE BANDS</b> | 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                                  |
| <b>SUPPORTED 5G BANDS</b>  | 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, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n255 |
| <b>VSWR</b>                | <2.00, max <3.00  |
| <b>BEAMWIDTH</b>           | 80°/80° ±15°  |
| <b>POLARIZATION</b>        | X (±45degrees)  |
| <b>IMPEDANCE</b>           | 50 Ω  |

## MECHANICAL SPECIFICATION

|  |   |
|--|---|
| <b>MATERIALS</b>                               | ABS, aluminum, PTFE, Fiberglass                       |
| <b>CONNECTOR TYPE</b>                          | RJ45  |
| <b>INGRESS PROTECTION</b>                      | IP68  |
| <b>DIMENSIONS</b>                              | 486.0 x 292.2 x 175.4 mm<br>19.13 x 11.50 x 6.87 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>ENCLOSURE RECOMMENDED TIGHTENING TORQUE</b> | 0.6 - 0.8 Nm  |
| <b>MAST DIAMETER</b>                           | 25-66mm<br>0.98-2.60 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 |    |    |    |    |    |     |

617 MHz      6000 MHz

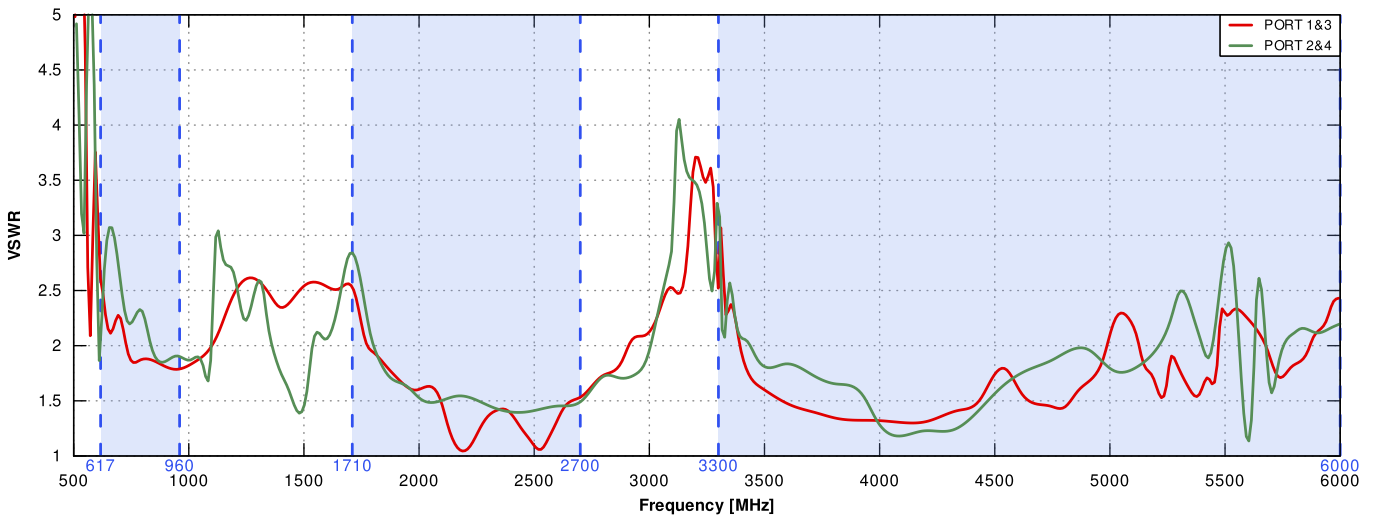
**5G**

|     |      |      |      |     |     |     |
|-----|------|------|------|-----|-----|-----|
| 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  | n80  | n81 | n82 | n83 |
| n84 | n85  | n86  | n89  | n90 | n95 | n97 |
| n98 | n100 | n101 | n255 |     |     |     |

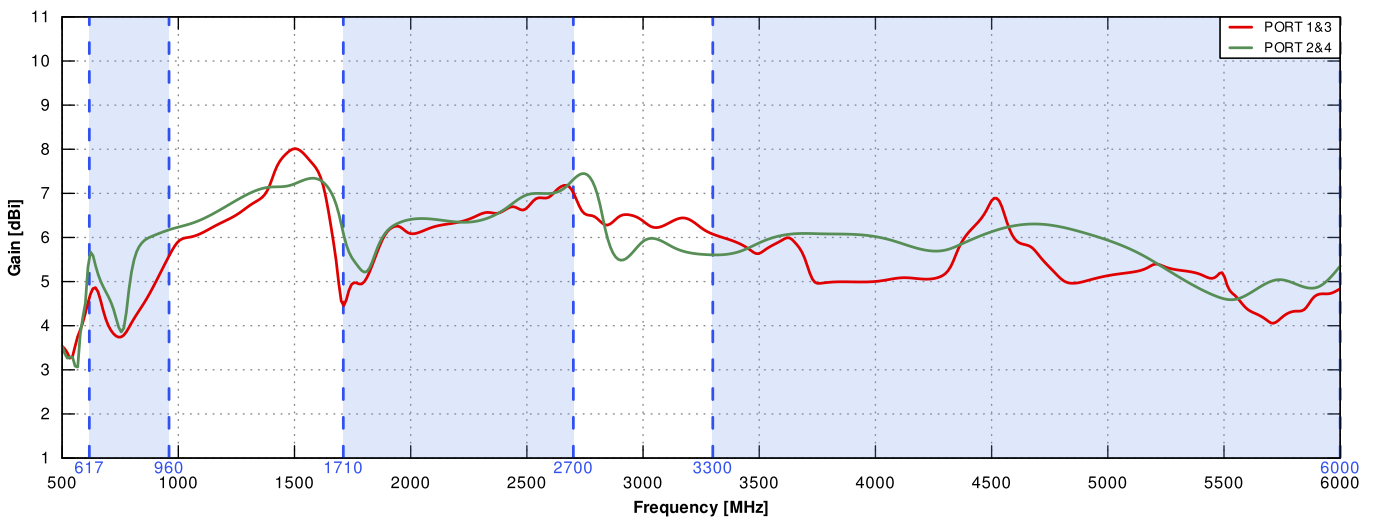
617 MHz      6000 MHz

# PLOTS

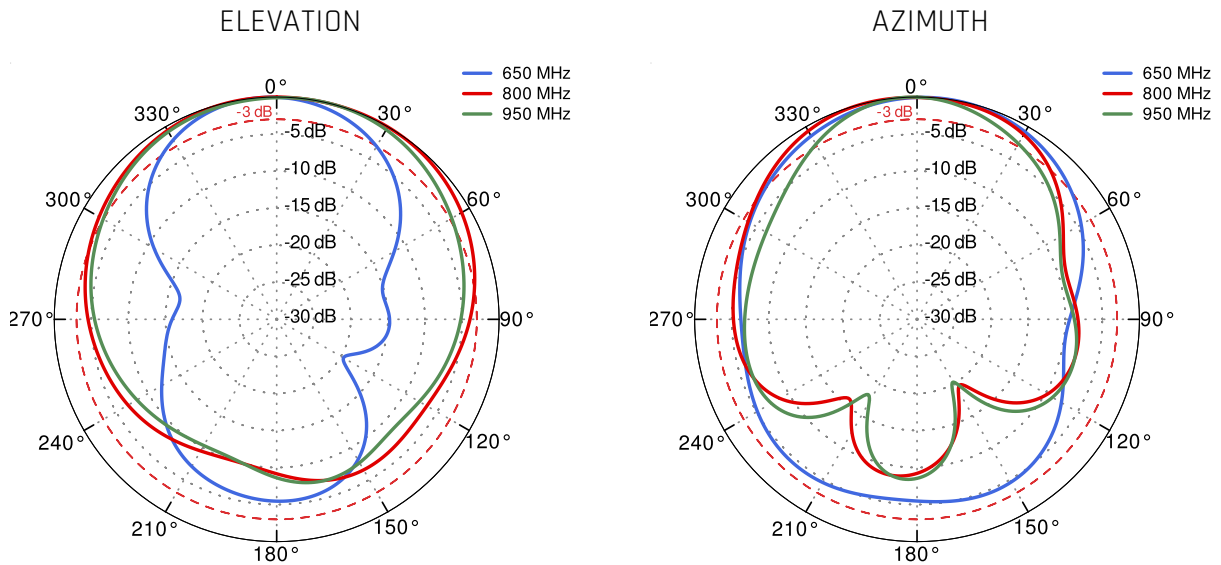
VSWR for 5G/LTE antenna



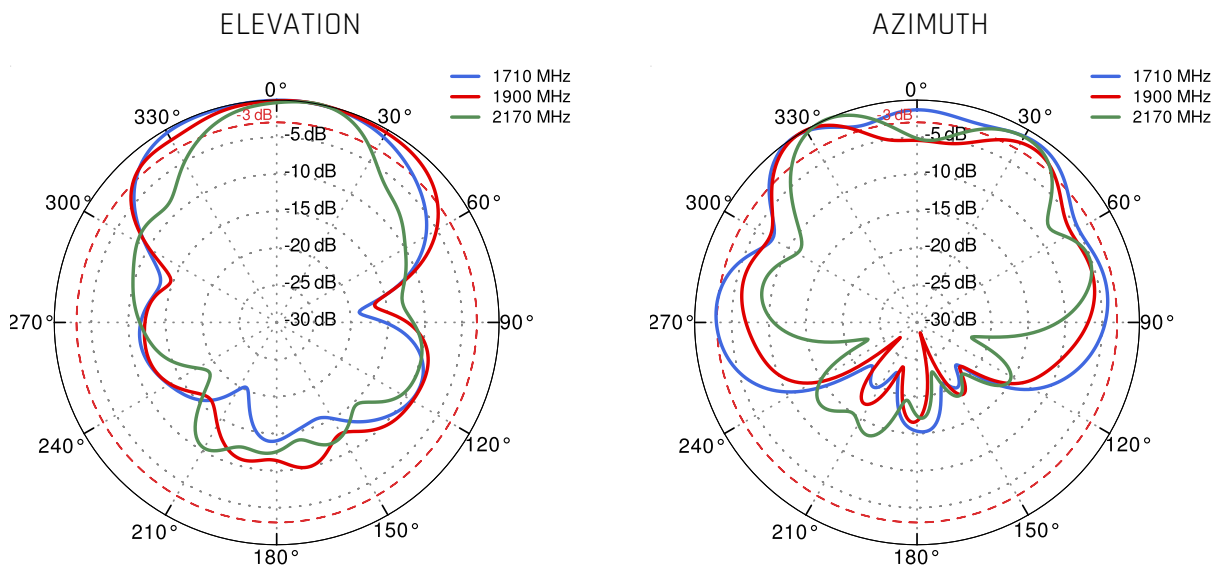
Gain for 5G/LTE antenna



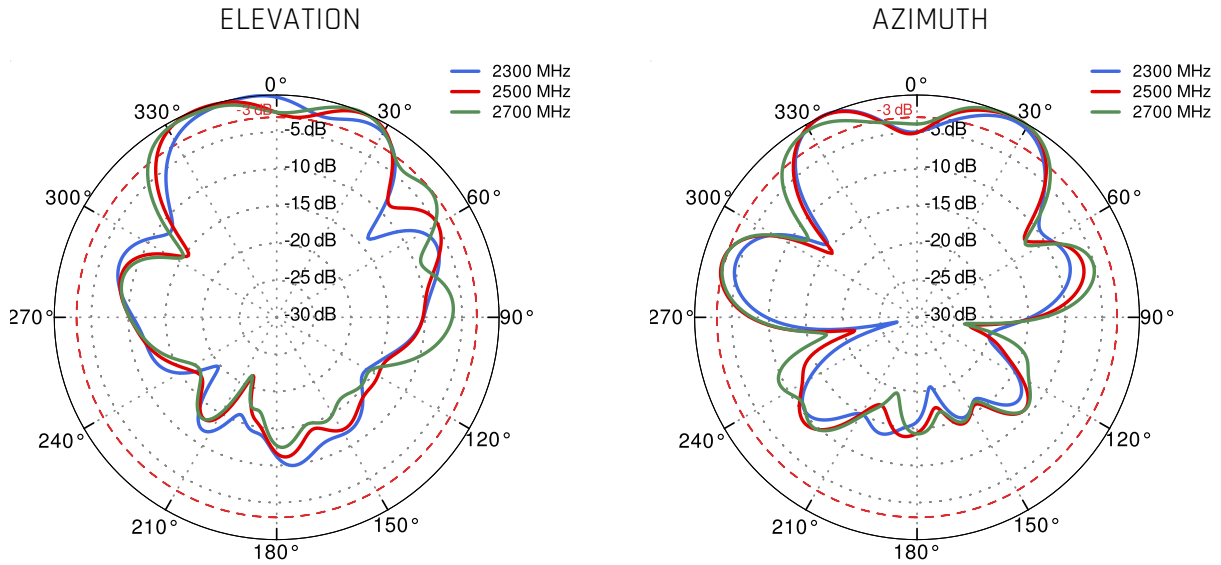
PORT 1&3 - 5G/LTE from 650MHz to 950MHz



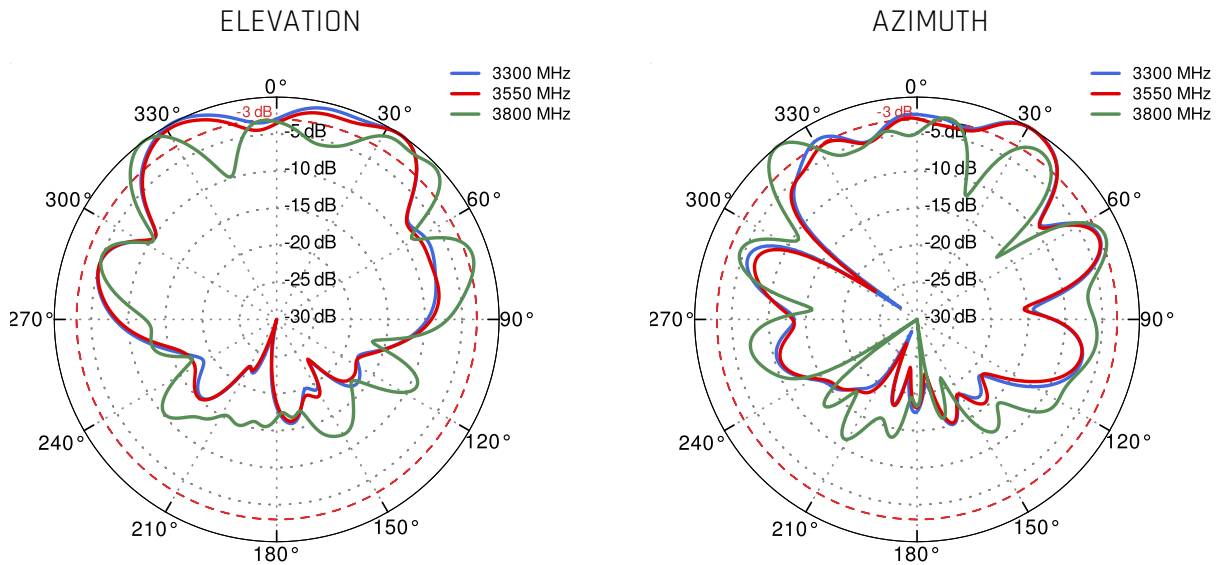
PORT 1&3 - 5G/LTE from 1.71GHz to 2.17GHz



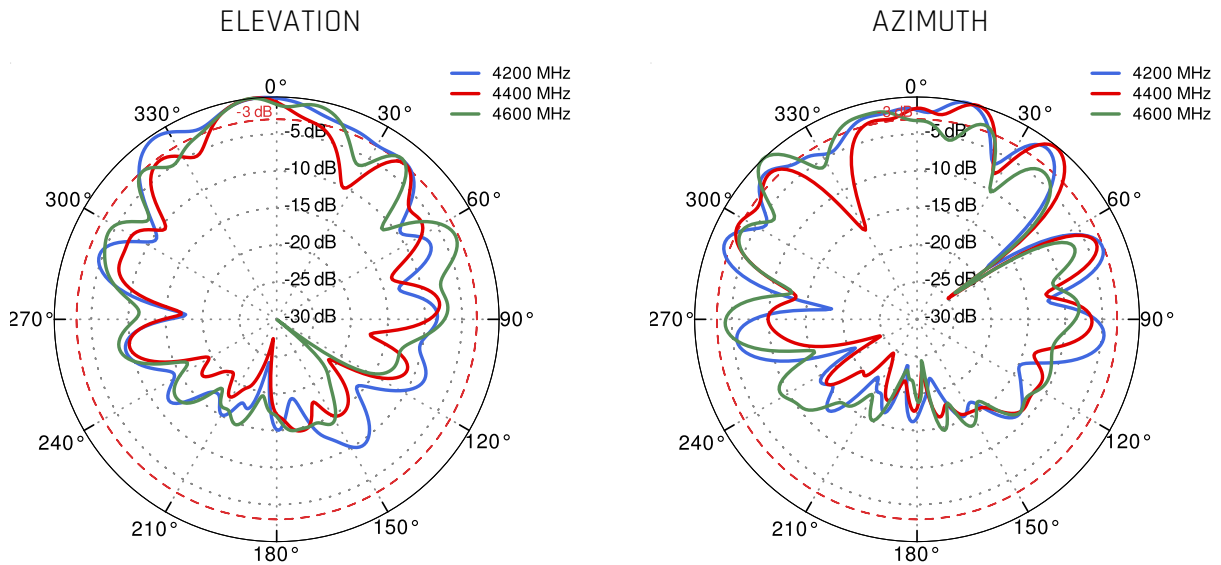
PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz



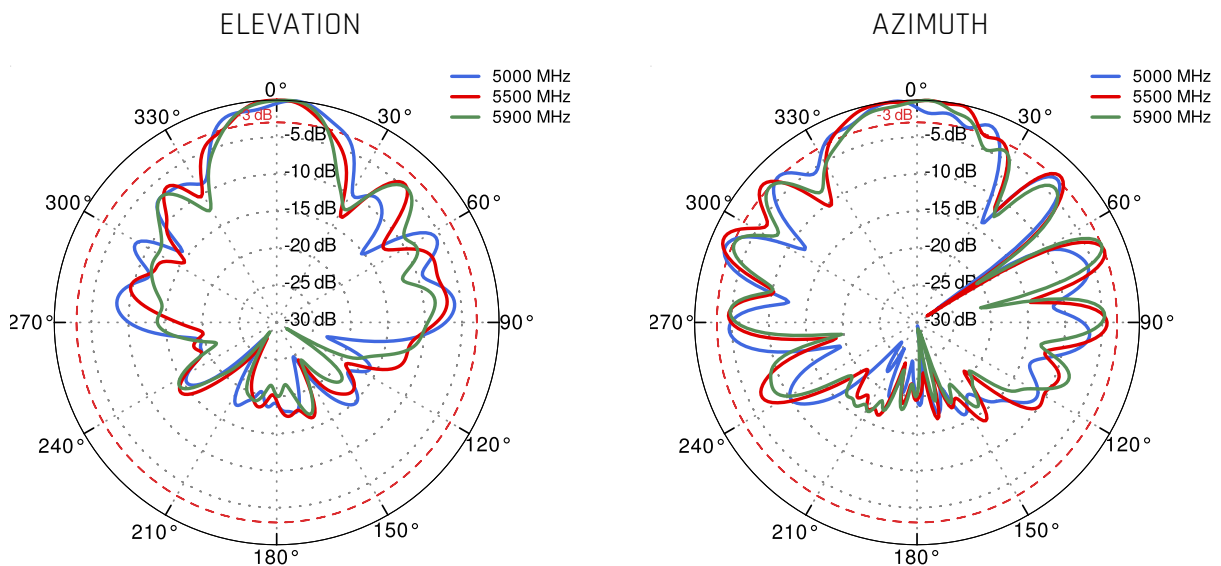
PORT 1&3 - 5G/LTE from 3.3GHz to 3.8GHz



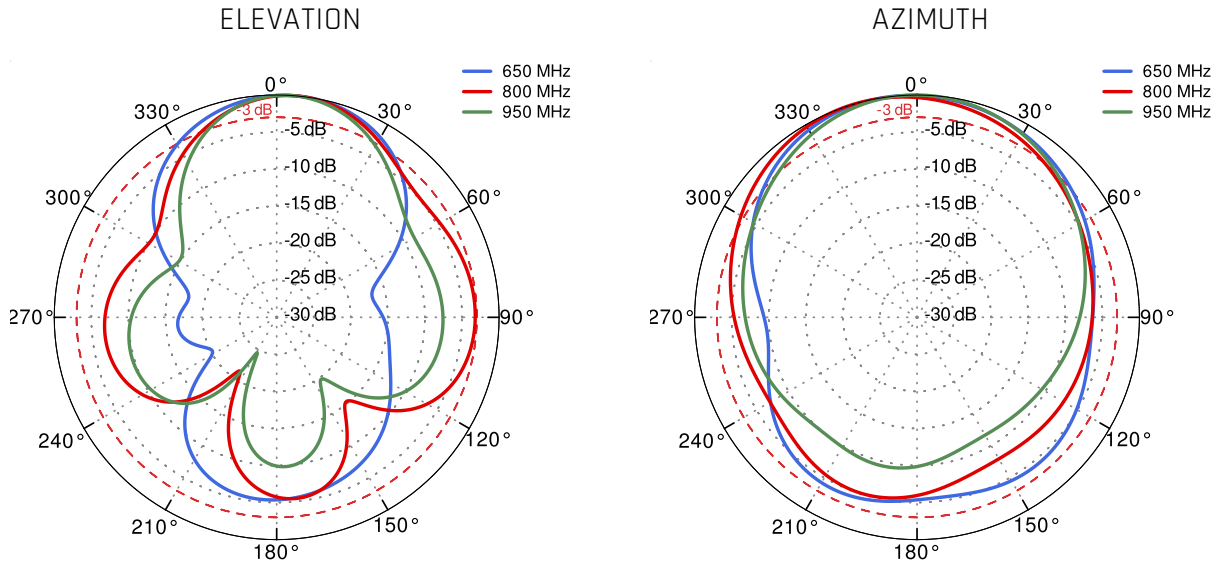
PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz



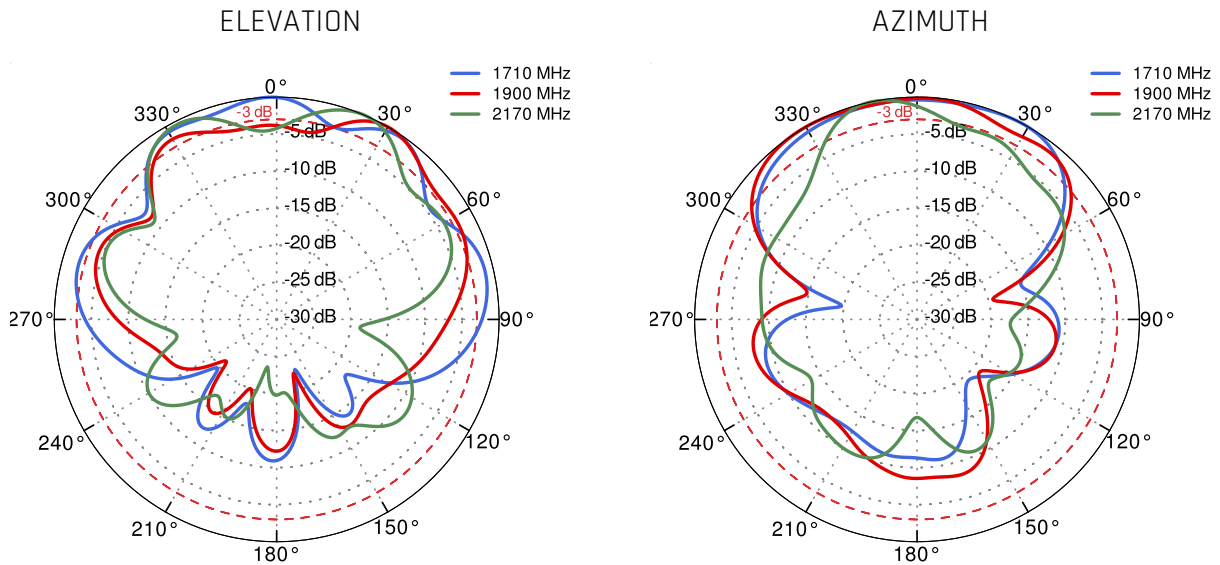
PORT 1&3 - 5G/LTE from 5.0GHz to 5.9GHz



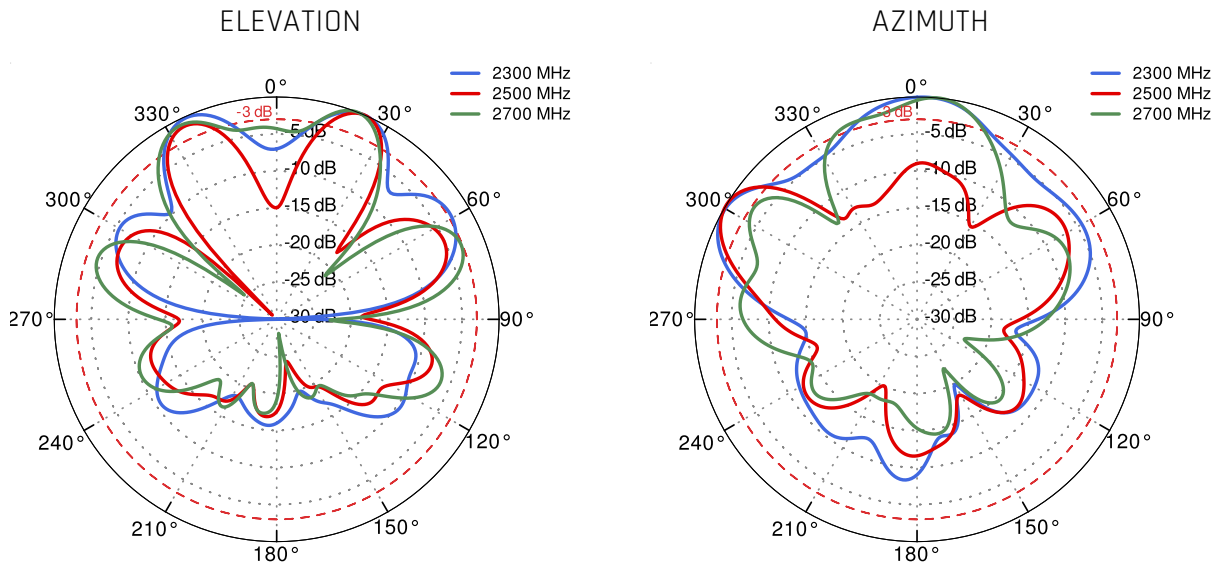
### PORT 2&4 - 5G/LTE from 650MHz to 950MHz



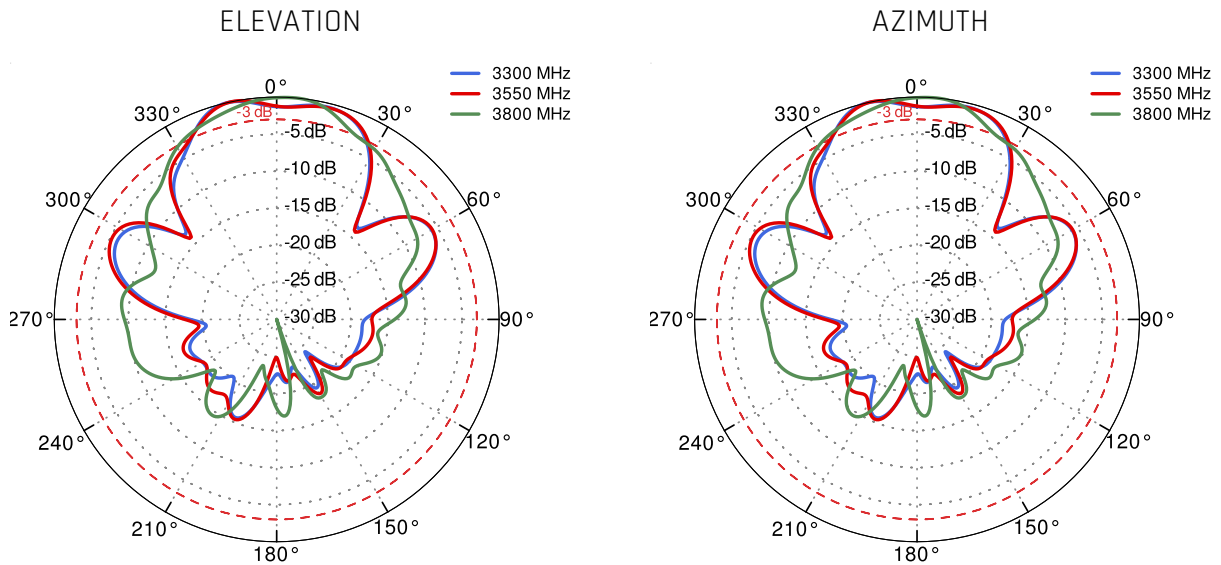
### PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz



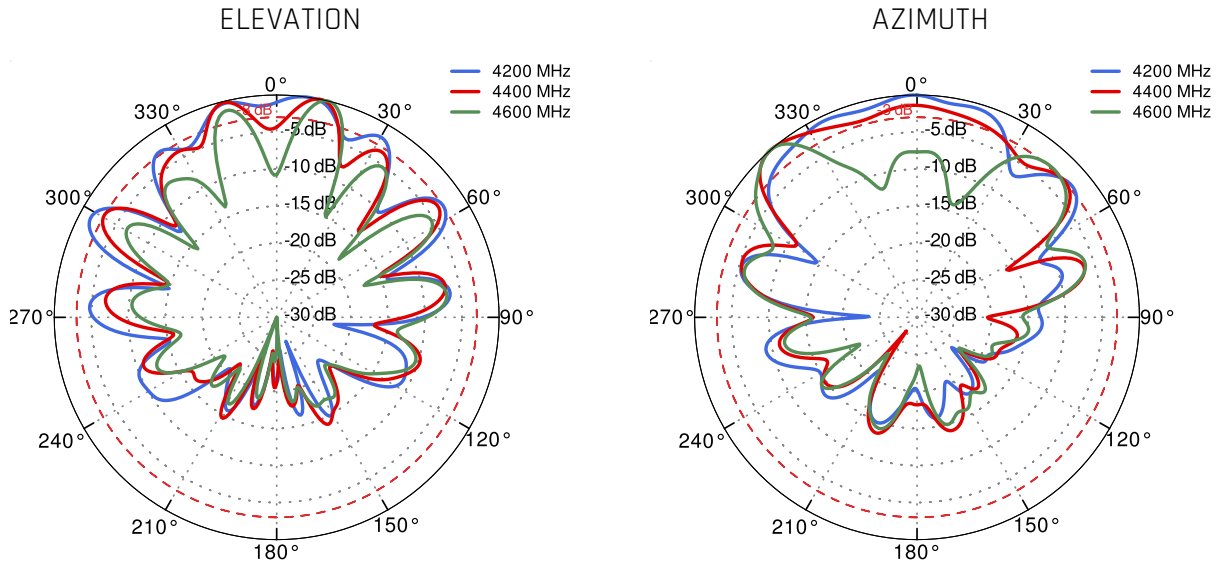
PORT 2&4 - 5G/LTE from 2.3GHz to 2.7GHz



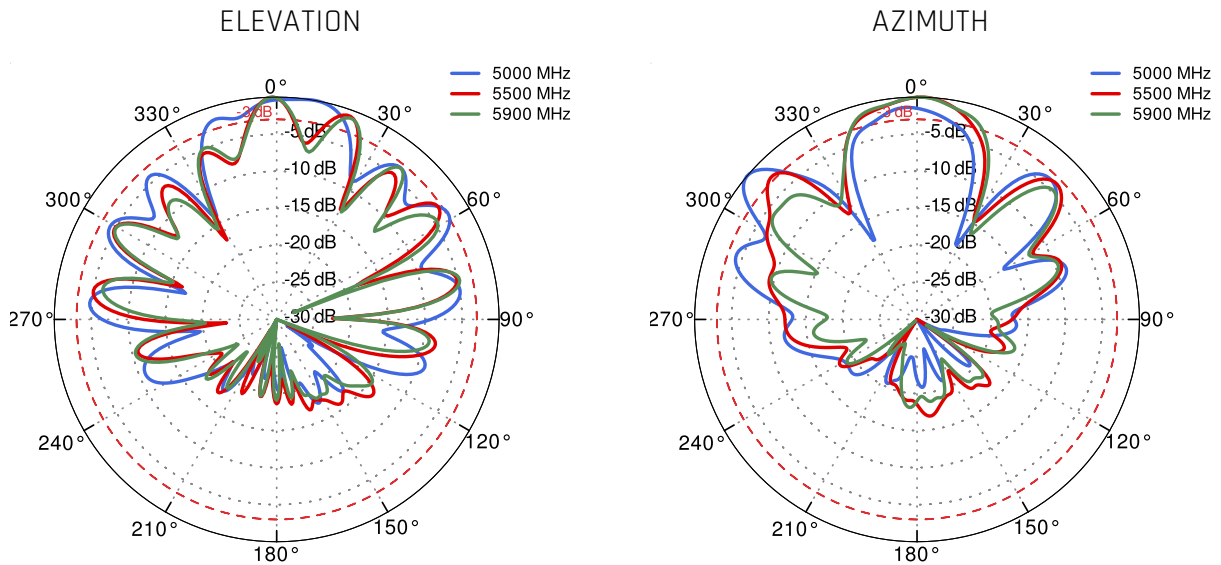
PORT 2&4 - 5G/LTE from 3.3GHz to 3.8GHz



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



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



## **DIMENSIONS**

