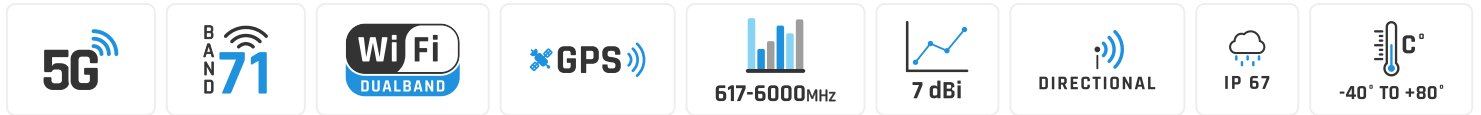


# QuMax for Teltonika RUTX50

**INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + WI-FI OMNI ANTENNA + GPS + PLACE TO INSTALL  
TELTONIKA RUTX 50 (ALL-IN-ONE)**

QuMax for RUTX50 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, Wi-Fi and GPS antennas integrated in IP67 enclosure. It offers 7.5 dBi gain and wide beam width, which makes it suitable for use in both urban and rural environments.

Combining QuMax with RUTX50 inside the antenna housing gives you complete outdoor solution with multiple use scenarios such as transportation public, energy, mining IoT and more.



## 5G AND 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/5G 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, 48, 49, 52, 53, 65, 66, 67, 68, 69, 71, 85, 103, n77, n78, n79, n80, n81, n82, n83, n84, n85, n89, n90, n95, n97, n98, n100, n101 |
| <b>VSWR</b>                   | <2.00, max <3.00  |
| <b>BEAMWIDTH</b>              | 80°/80° ±15°  |
| <b>POLARIZATION</b>           | X (±45degrees)  |
| <b>IMPEDANCE</b>              | 50 Ω  |

## WI-FI ANTENNA SPECIFICATION

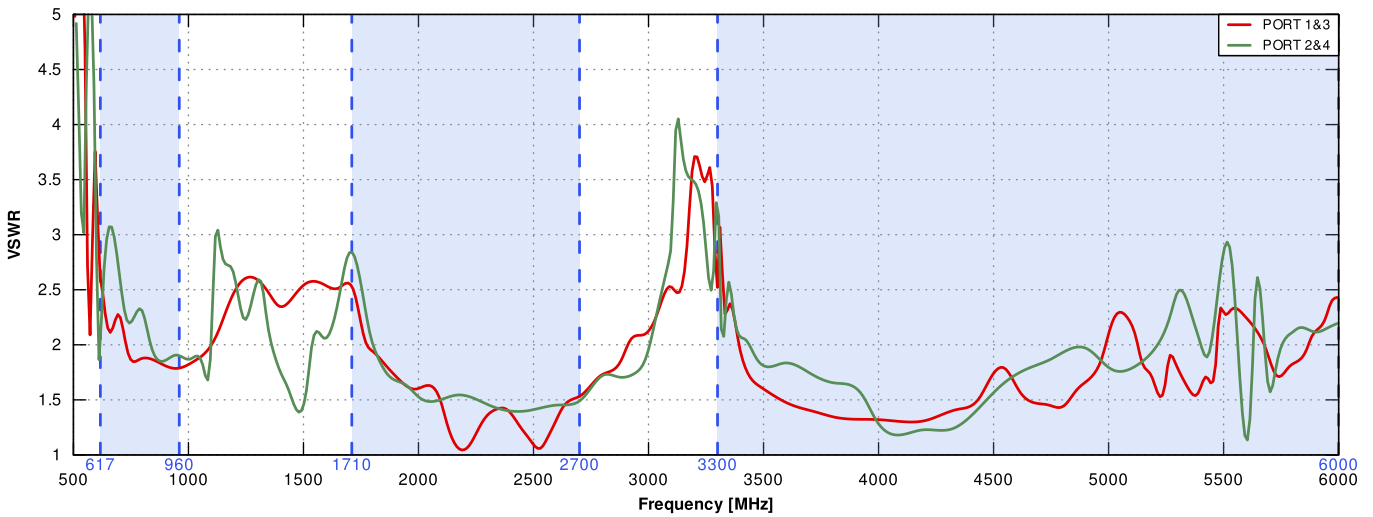
|                     |  |
|---------------------|--|
| <b>FREQUENCY</b>    | 2.40 - 2.50 GHz<br>5.0 - 7.125 GHz                   |
| <b>GAIN</b>         | 2.40 - 2.50 GHz : 6 dBi<br>5.0 - 7.125 GHz : 7.5 dBi |
| <b>VSWR</b>         | <1.70, max <2.00                                     |
| <b>BEAMWIDTH</b>    | 360°/25° ±5°   |
| <b>POLARIZATION</b> | Vertical   |
| <b>IMPEDANCE</b>    | 50 Ω   |

## MECHANICAL SPECIFICATION

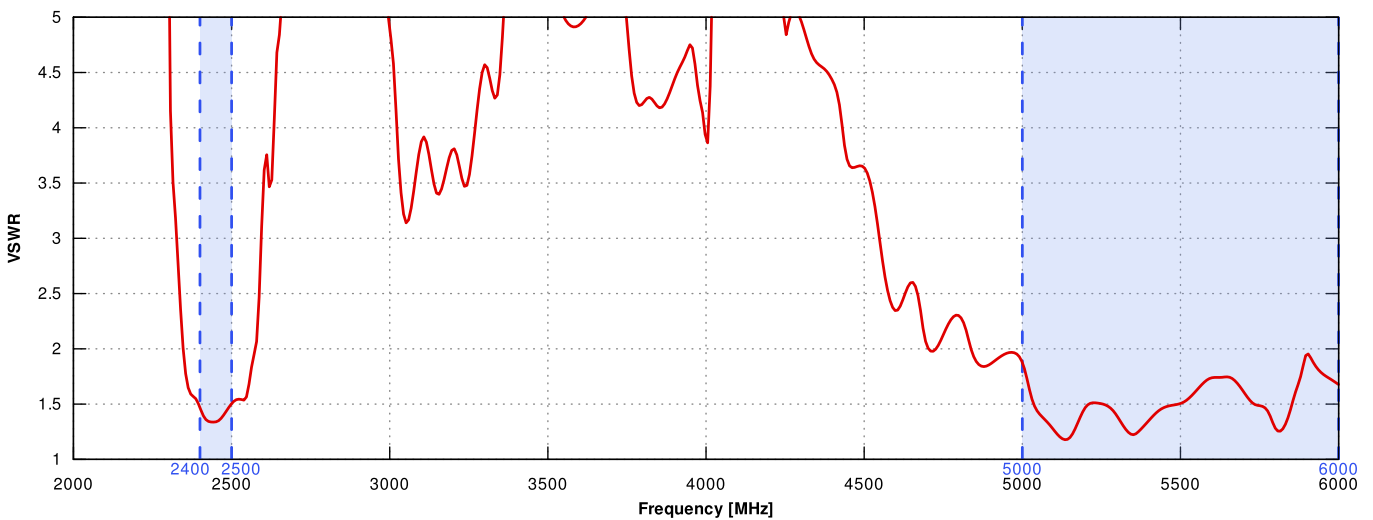
|                              |   |
|------------------------------|---|
| <b>MATERIALS</b>             | ABS, aluminum, PTFE, Fiberglass                       |
| <b>CONNECTOR TYPE</b>        | RJ45  |
| <b>INGRESS PROTECTION</b>    | IP67  |
| <b>DIMENSIONS</b>            | 486.0 x 292.2 x 105.6 mm<br>19.13 x 11.50 x 4.16 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             |

# PLOTS

## VSWR for 5G/LTE antenna

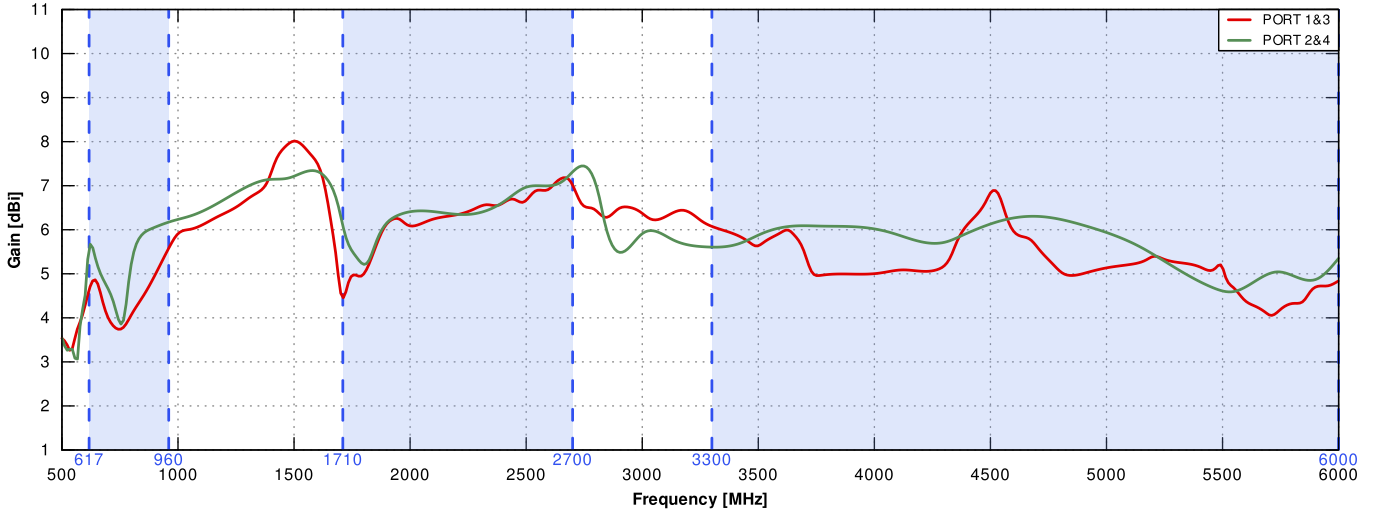


## VSWR for Wi-Fi antenna

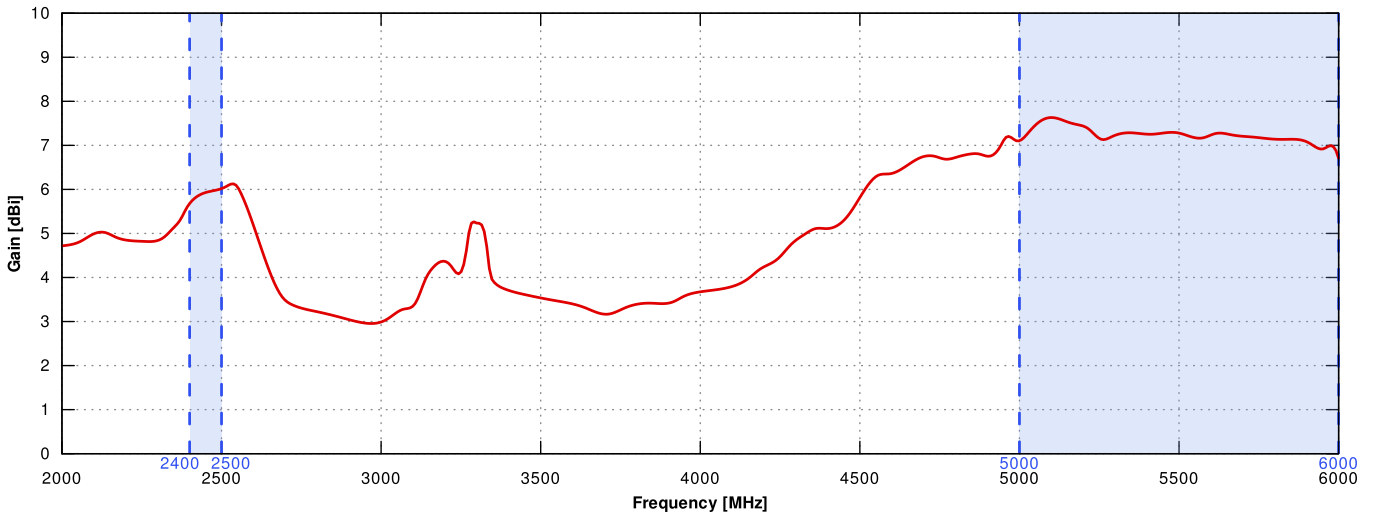




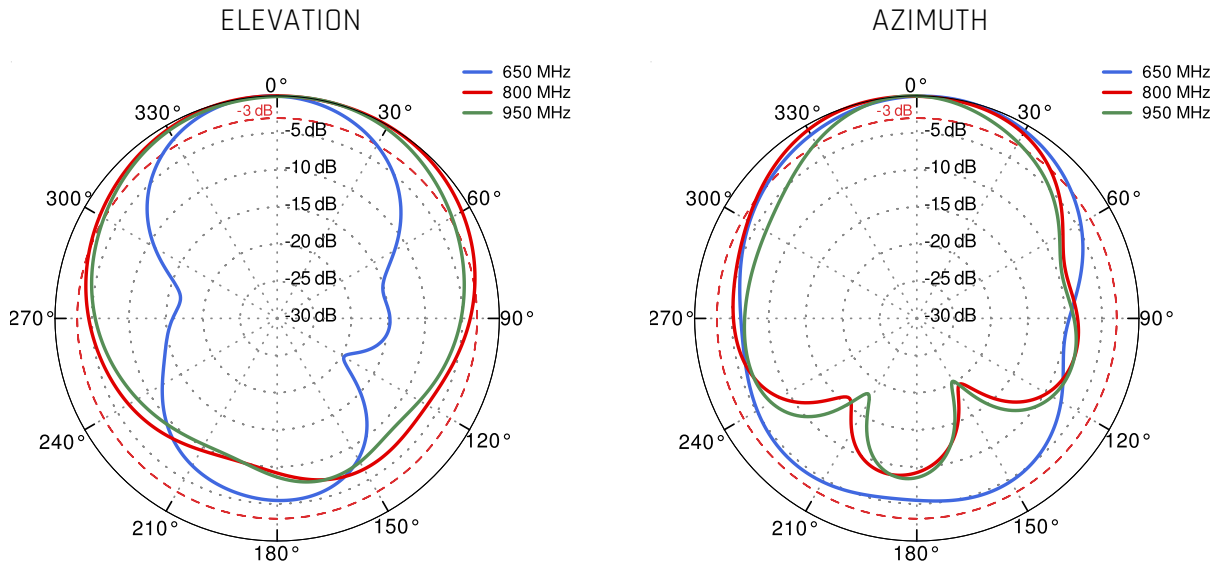
### Gain for 5G/LTE antenna



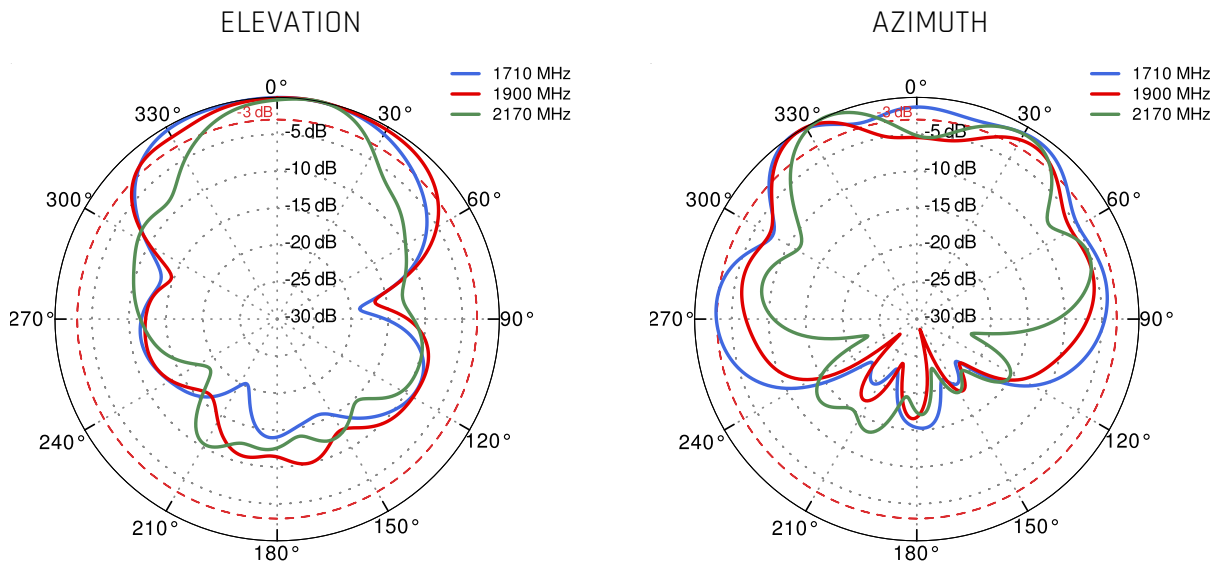
### Gain for Wi-Fi antenna



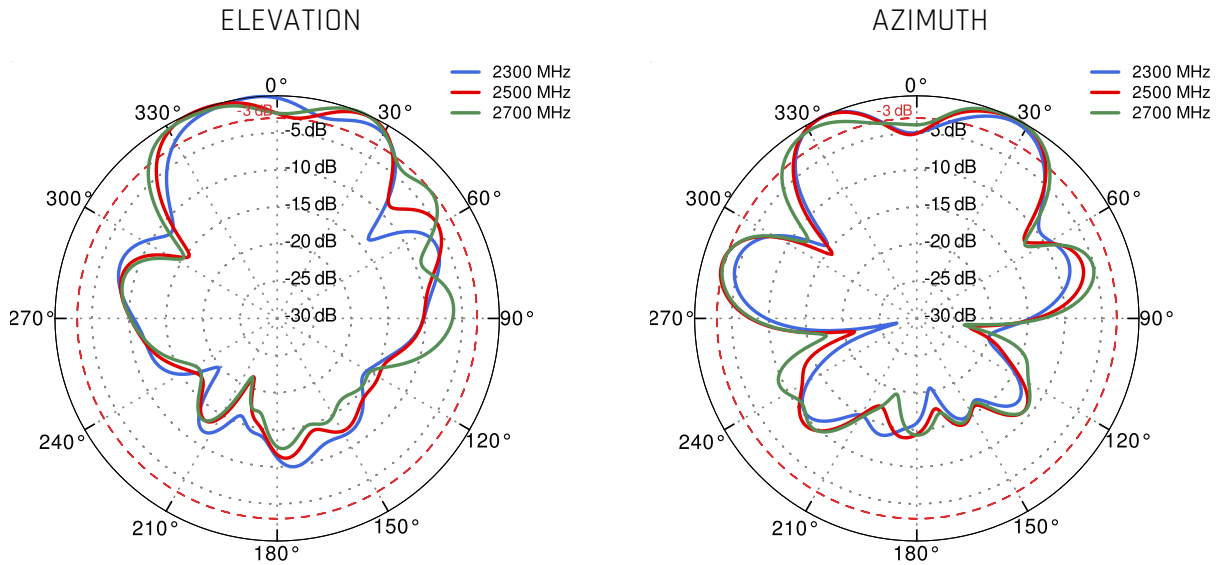
PORT 1&3 - 5G/LTE from 650MHz to 950MHz



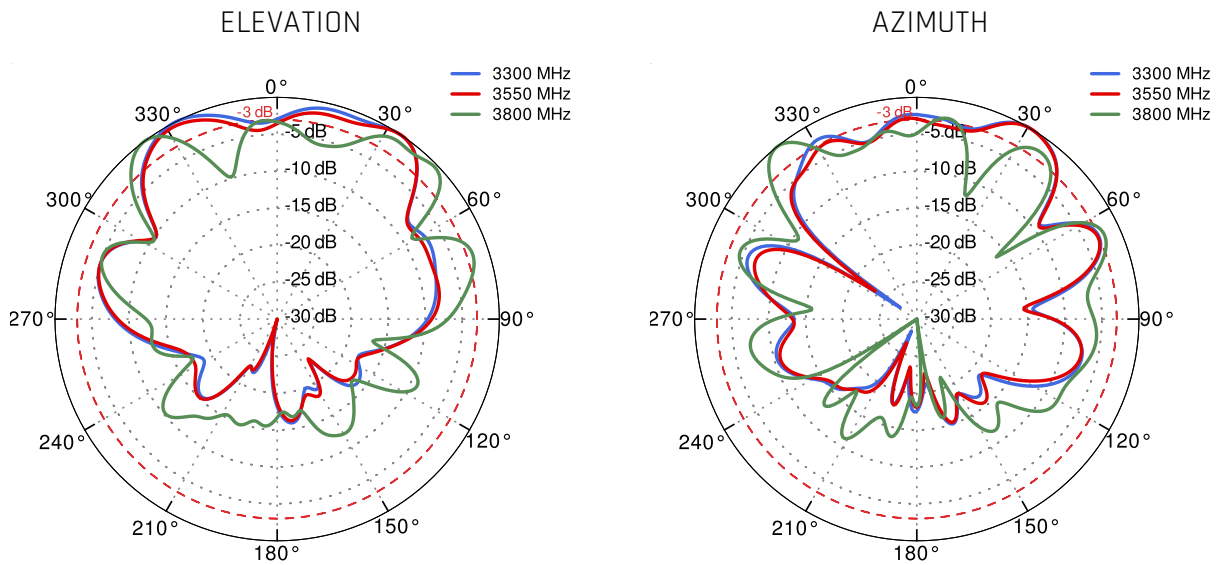
PORT 1&3 - 5G/LTE from 1.71GHz to 2.17GHz



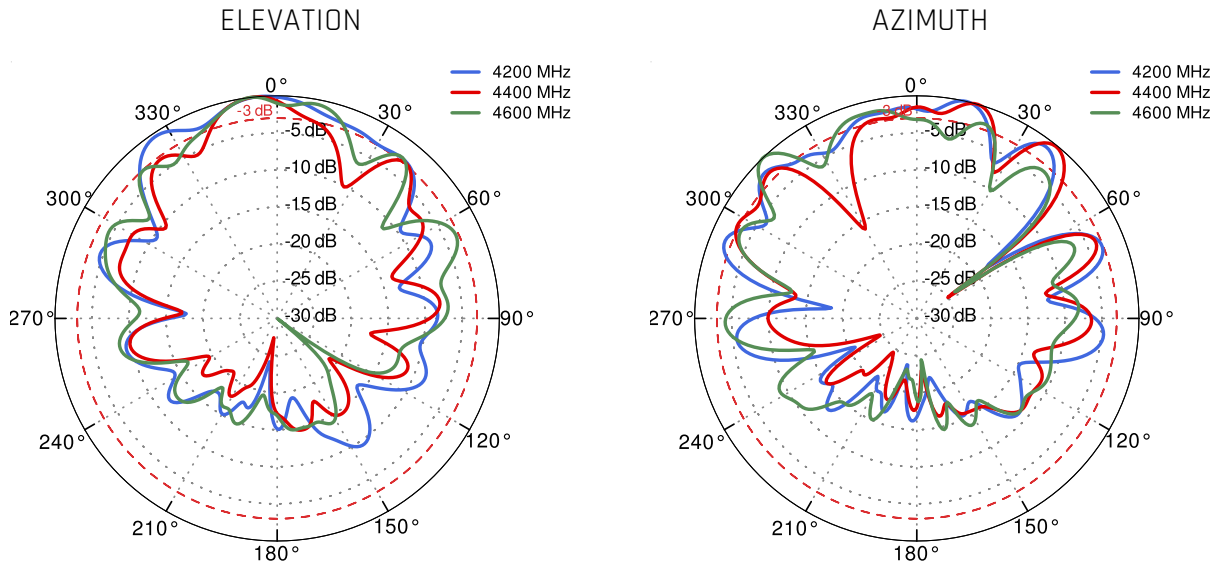
PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz



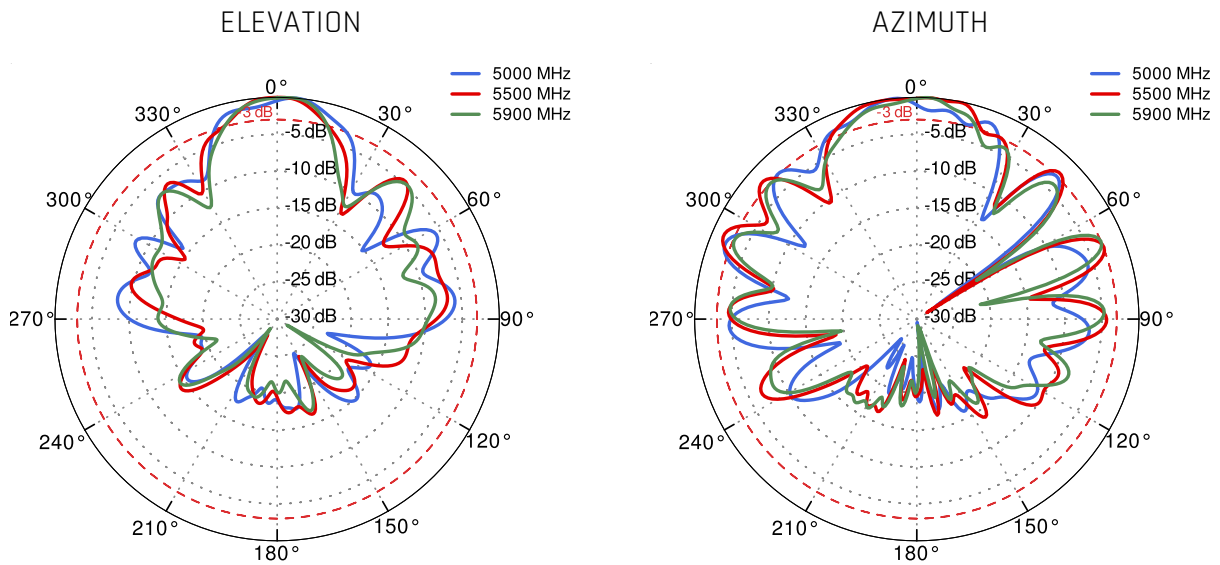
PORT 1&3 - 5G/LTE from 3.3GHz to 3.8GHz



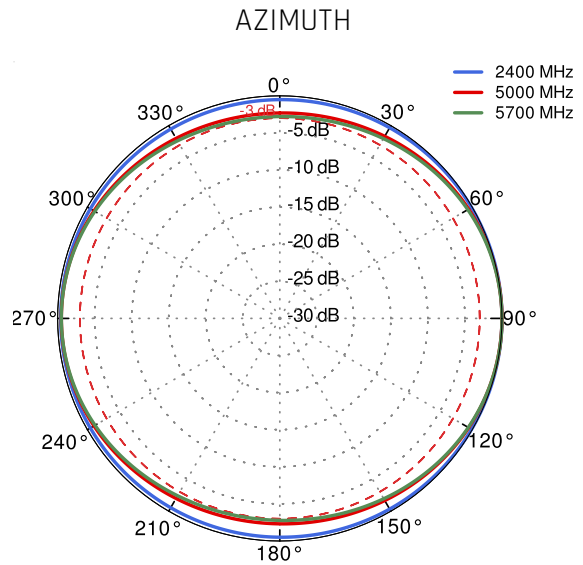
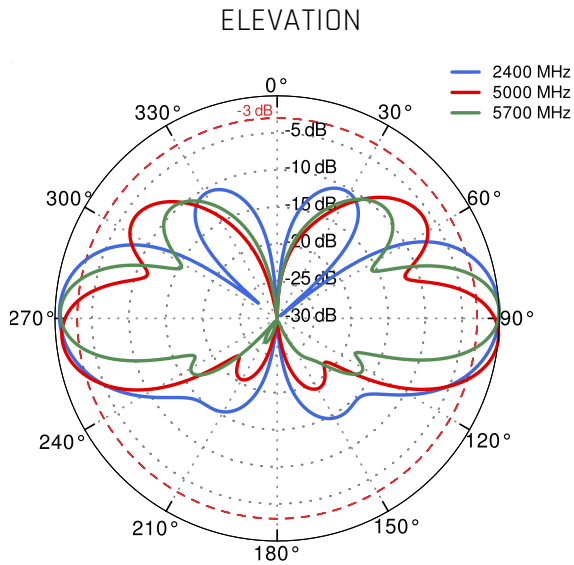
PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz



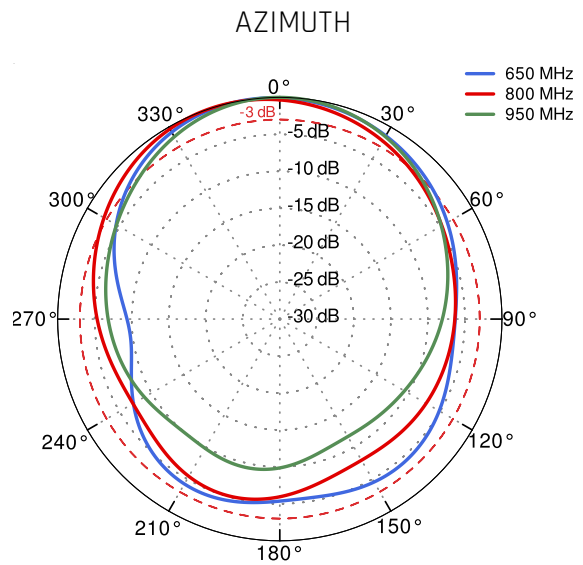
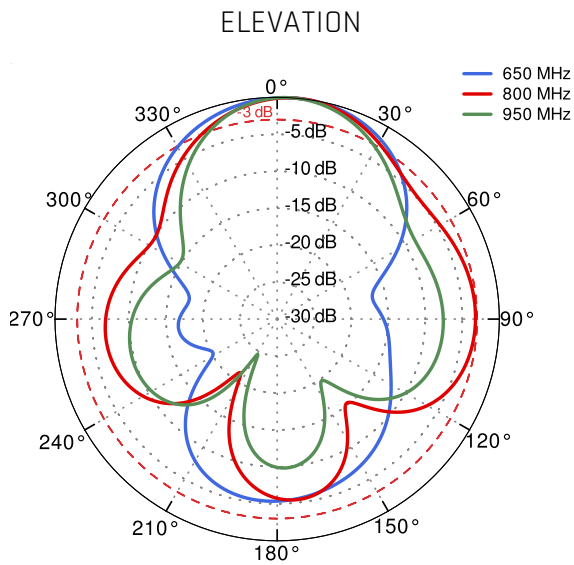
PORT 1&3 - 5G/LTE from 5.0GHz to 5.9GHz

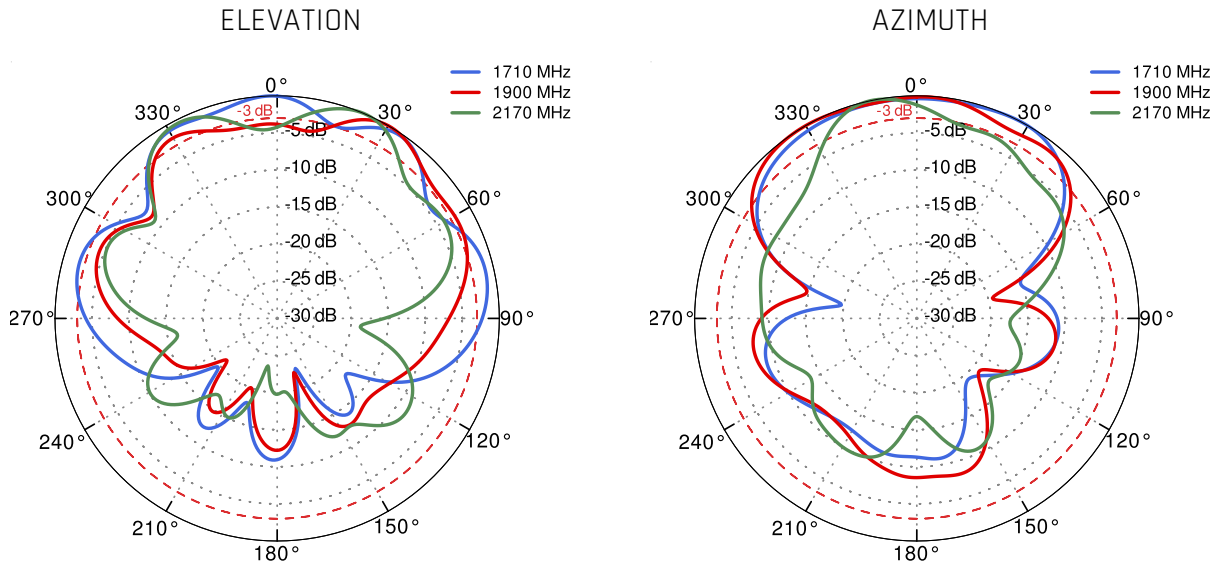
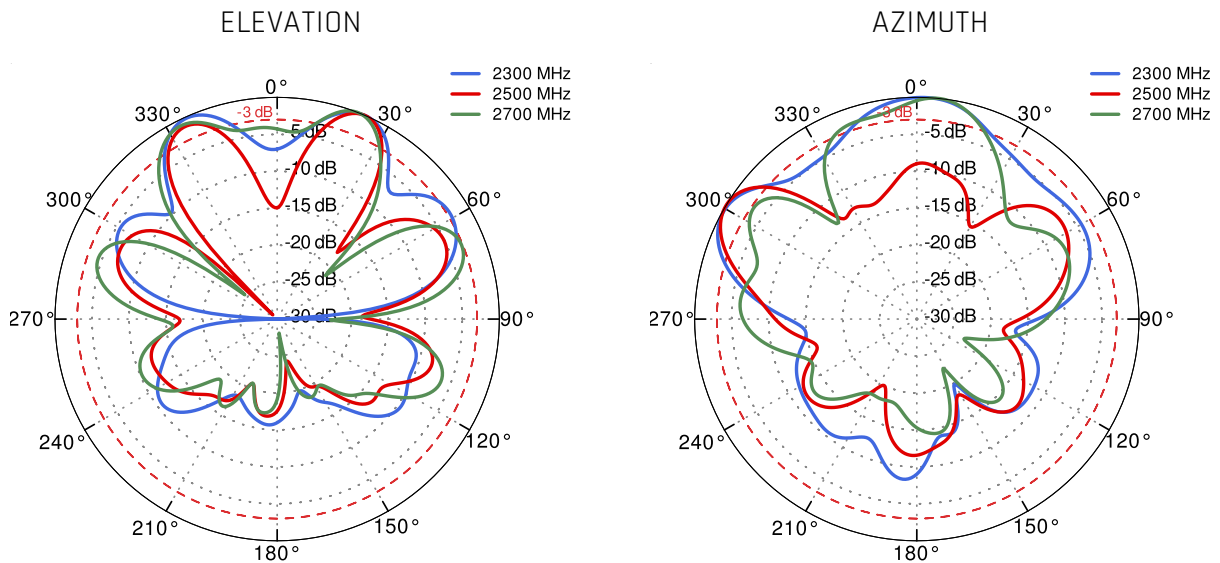


Wi-Fi 2.4GHz and 5GHz

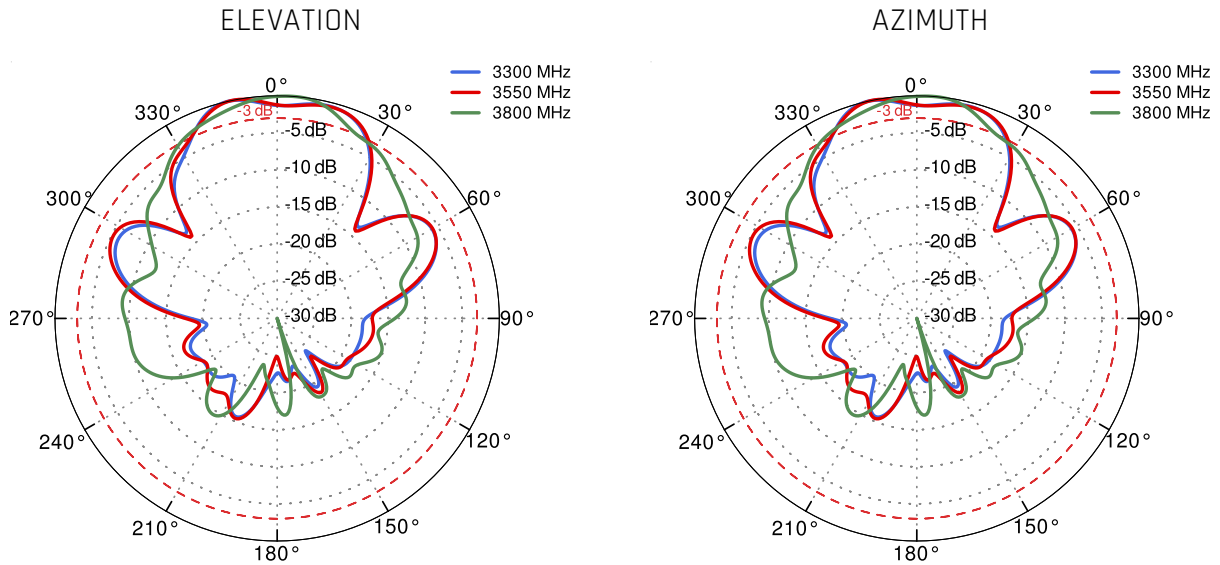


PORT 2&4 - 5G/LTE from 650MHz to 950MHz

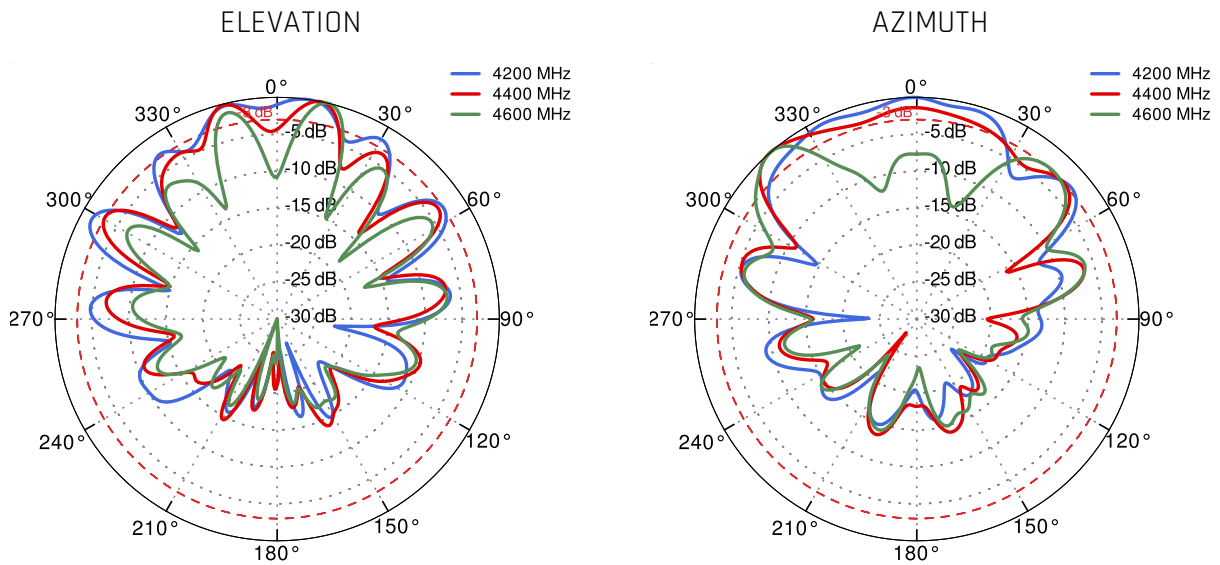


**PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz**

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


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

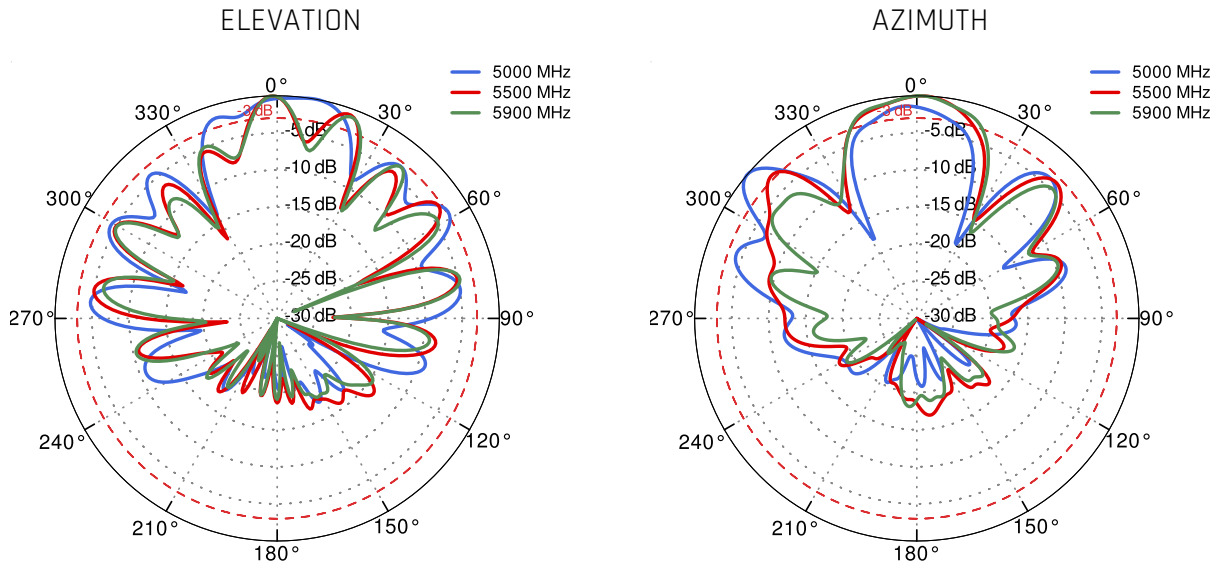


PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz





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



**DIMENSIONS**

