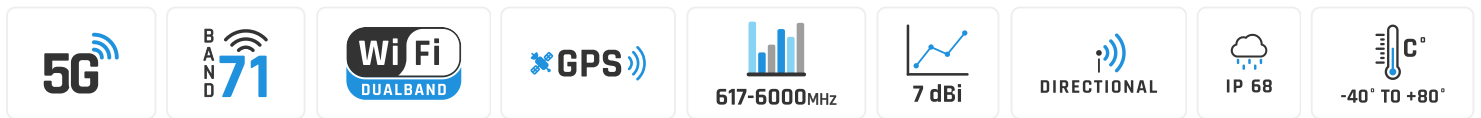


# QuMax for Teltonika RUTX50/RUTM51/RUTM54

**INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + WI-FI OMNI ANTENNA + GPS + PLACE TO INSTALL  
TELTONIKA RUTX50/RUTM51/RUTM54 (ALL-IN-ONE)**

QuMax for RUTX50/RUTM51/RUTM54 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 IP68 (IP67) 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 RUTX50, RUTM51 or RUTM54 inside the antenna housing gives you complete outdoor solution with multiple use scenarios such as transportation public, energy, mining IoT and more.



## 5G / LTE ANTENNA SPECIFICATION

<b>FREQUENCY</b>	0.617 - 0.96 GHz 1.7 - 2.7 GHz 3.3 - 4.6 GHz 4.7 - 6.0 GHz
<b>GAIN</b>	0.617 - 0.96 GHz: 6 dBi 1.7 - 2.7 GHz: 7 dBi 3.3 - 4.6 GHz: 7 dBi 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
<b>CONNECTOR</b>	4x SMA
<b>CABLE TYPE</b>	RG316

## WI-FI ANTENNA SPECIFICATION

<b>FREQUENCY</b>	2.40 - 2.50 GHz 5.0 - 7.125 GHz
<b>GAIN</b>	2.40 - 2.50 GHz : 6 dBi 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
<b>CONNECTOR</b>	2x RPSMA
<b>CABLE TYPE</b>	RG316

## GPS ACTIVE ANTENNA SPECIFICATION

<b>FREQUENCY</b>	1.56 - 1.61 GHz
<b>VSWR</b>	< 2
<b>GAIN</b>	3 dBi
<b>GAIN 3V</b>	28 dBi
<b>DC POWER INPUT</b>	2.5 V ~ 6.5 V
<b>POWER CONSUMPTION</b>	2.5-6.5mA
<b>IMPEDANCE</b>	50 Ω
<b>POLARIZATION</b>	RHCP (right hand circularly polarized)

**CONNECTOR**

1x SMA

**CABLE TYPE**

RG174

 **MECHANICAL SPECIFICATION****MATERIALS**

ABS, aluminum, PTFE, Fiberglass

**CONNECTOR TYPE**

RJ45

**INGRESS PROTECTION**

IP68

**DIMENSIONS**486.0 x 292.2 x 210.0 mm  
19.13 x 11.50 x 8.27 inch**WEIGHT**2.8 kg  
6.17 lbs**OPERATING TEMPERATURE**From -40°C to 80°C  
From -40°F to 176°F **MOUNTING KIT****DIMENSIONS**9.9 x 10.5 x 14.8 cm  
3.9 x 4.13 x 5.83 inch**REGULATION RANGE**

+/- 30°

**MAST DIAMETER RANGE**25 - 60mm  
0.98-2.36 inch**MATERIAL**

Polyamide with fiberglass + galvanized steel U-Bolts

**MOUNTING PLACE**

Wall or ceiling or mast

# 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

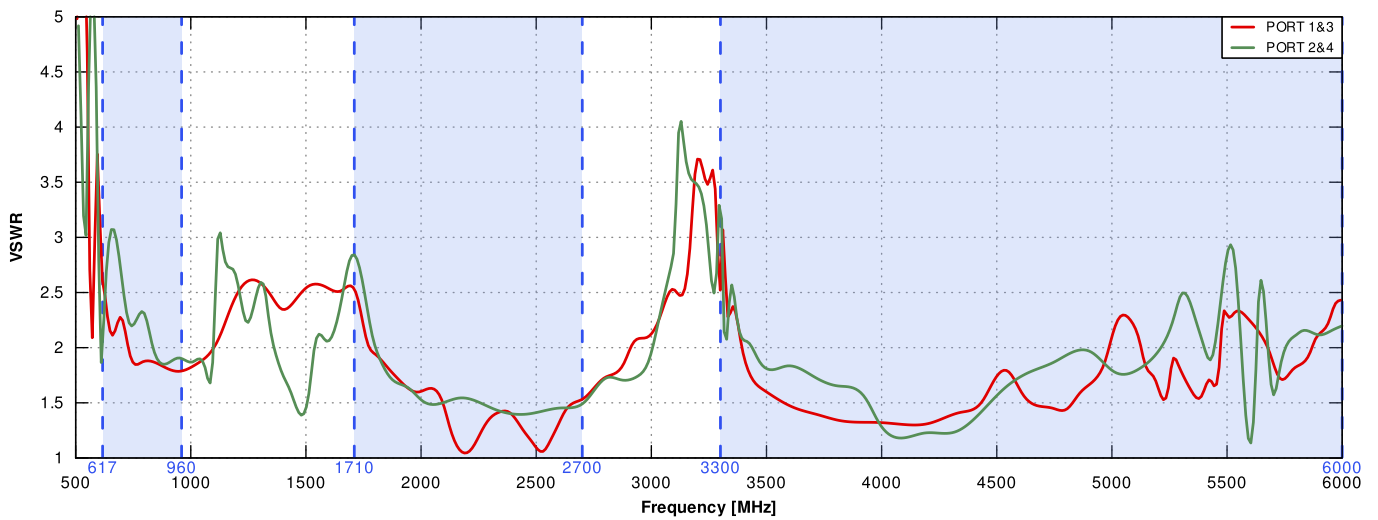
**5G**

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			

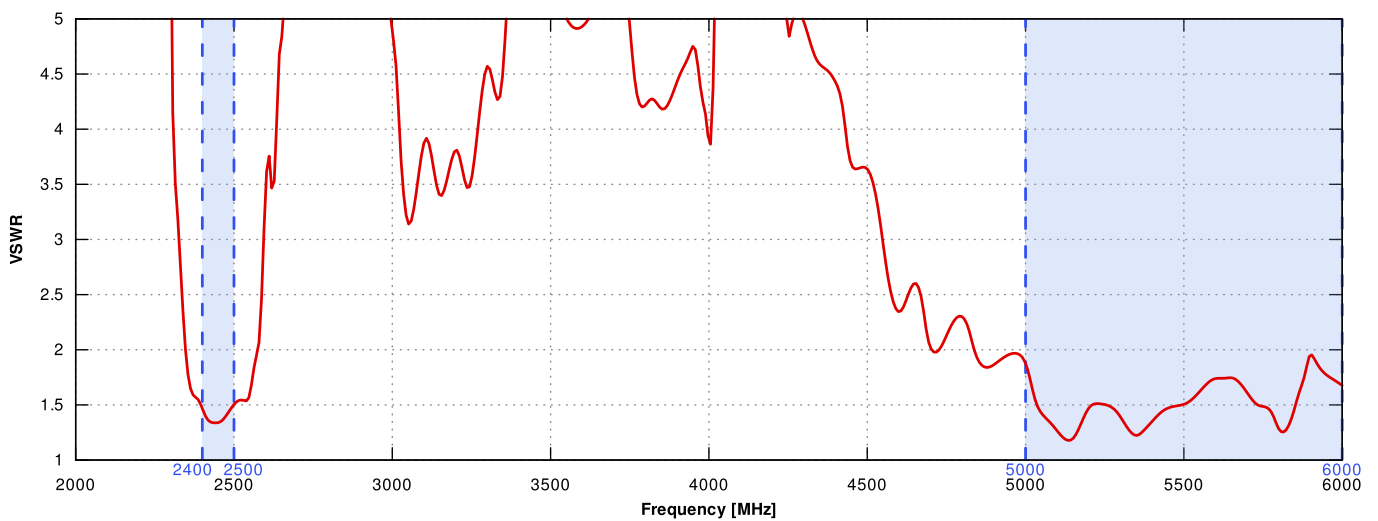
617 MHz 6000 MHz

## PLOTS

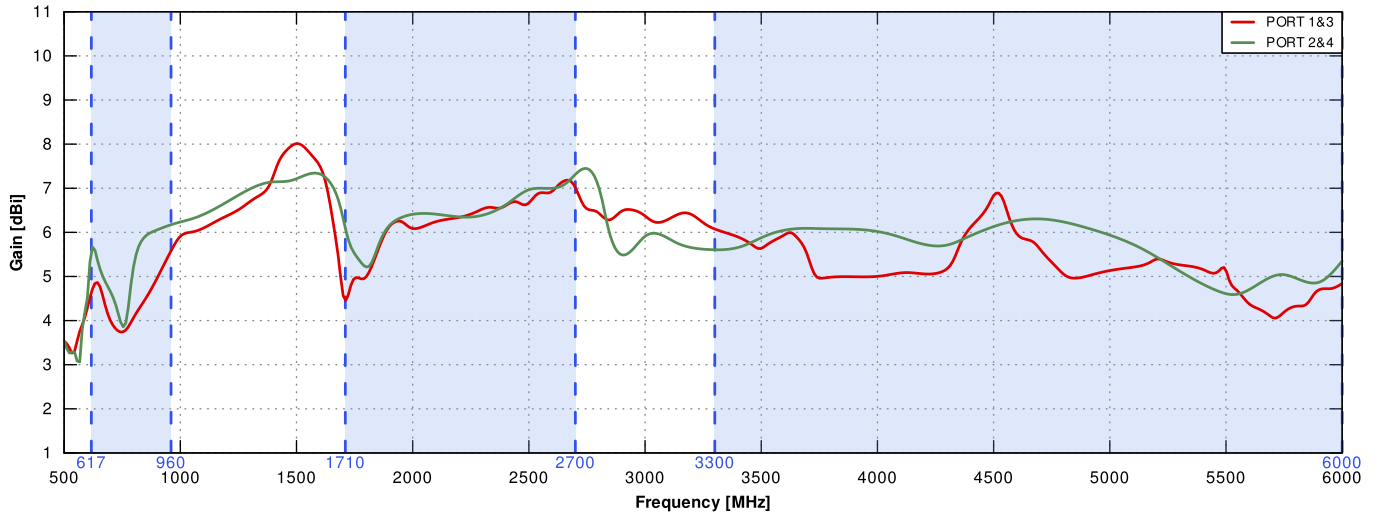
### VSWR for 5G/LTE antenna



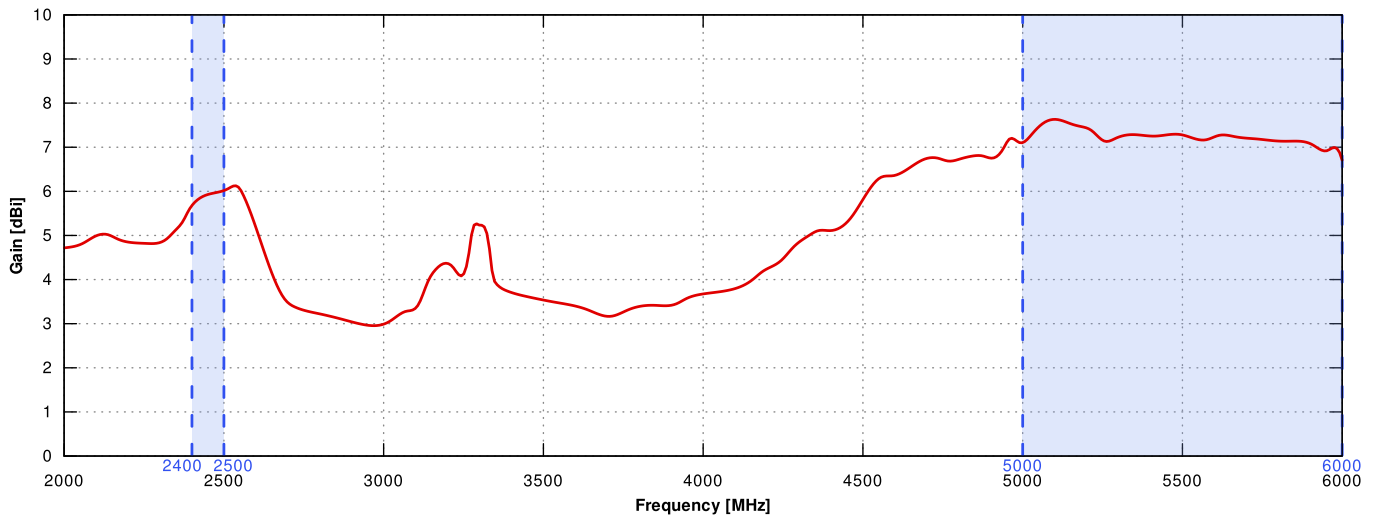
### VSWR for Wi-Fi antenna

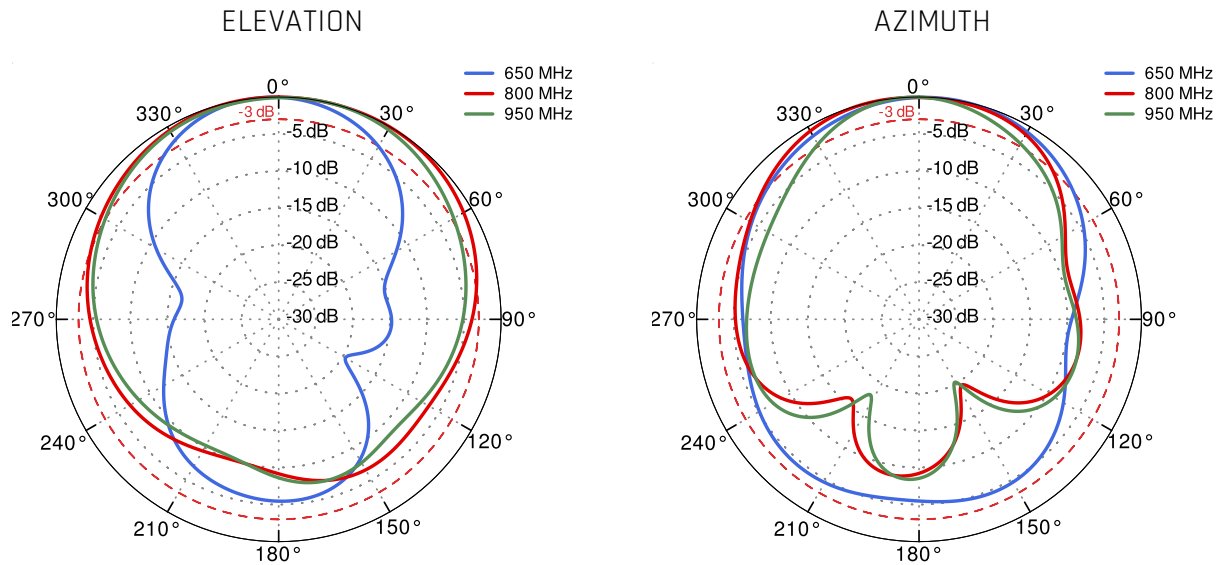
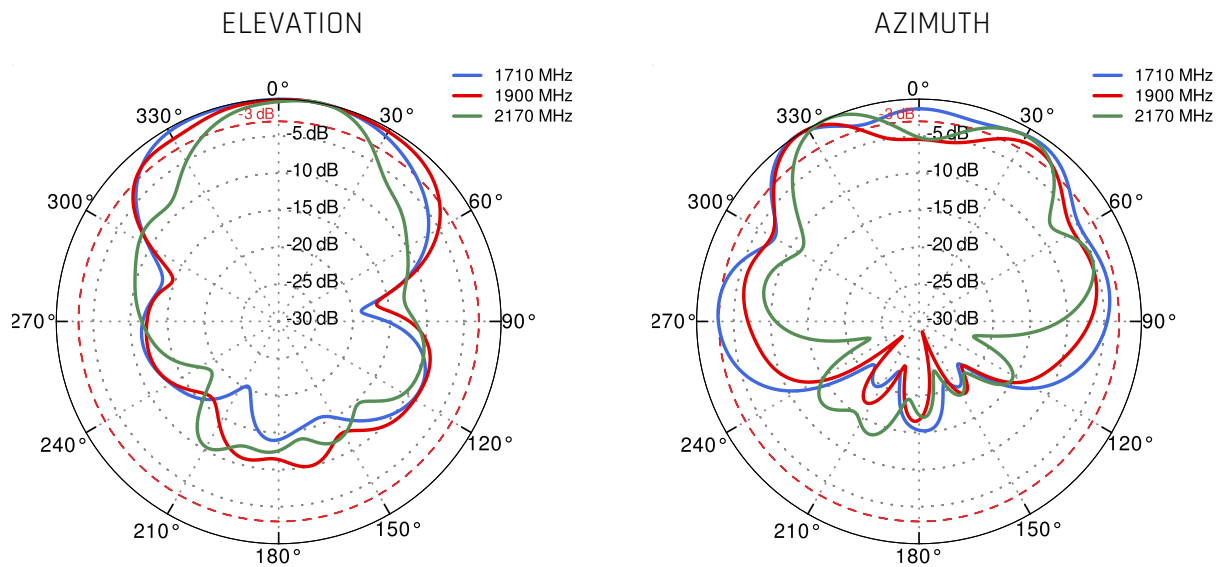


### Gain for 5G/LTE antenna



### Gain for Wi-Fi antenna



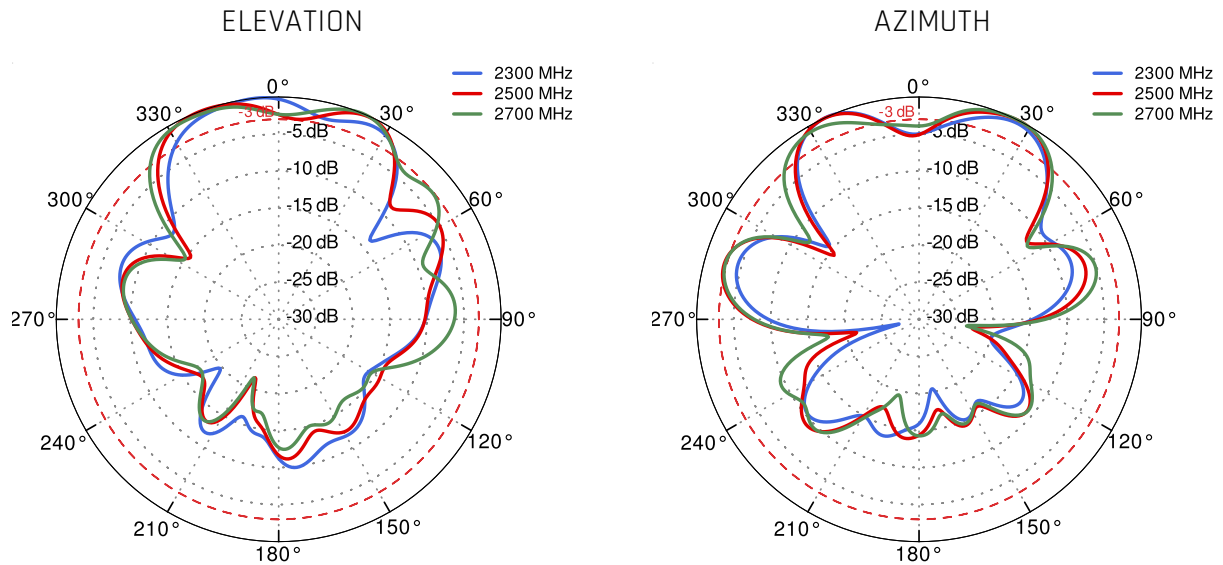
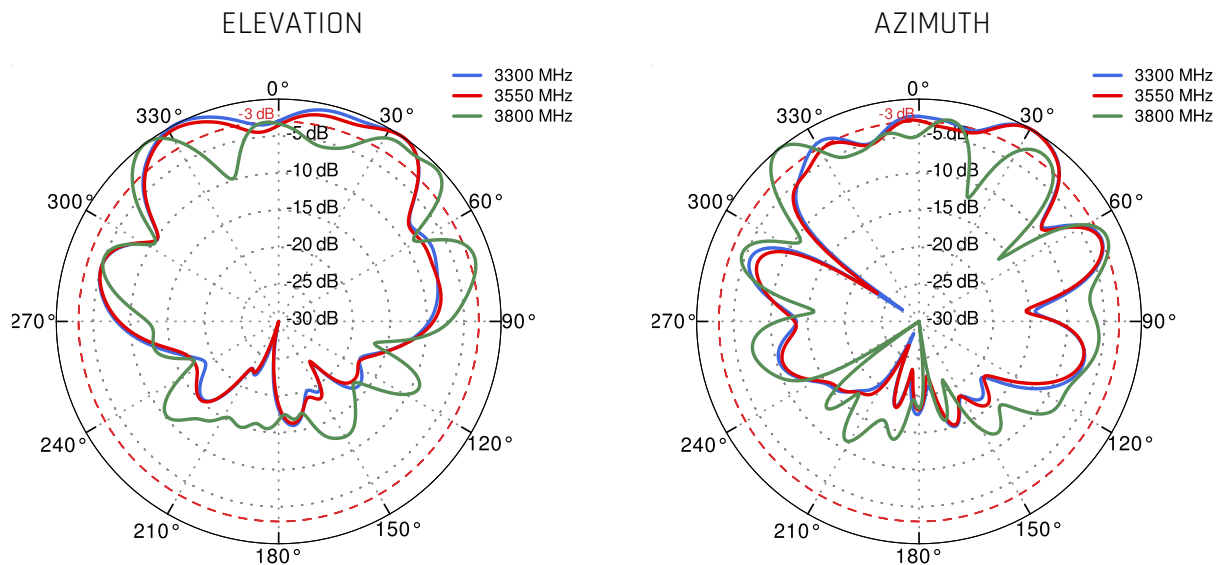
**PORT 1&3 - 5G/LTE from 650MHz to 950MHz**

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


**VERSION / 2.31**

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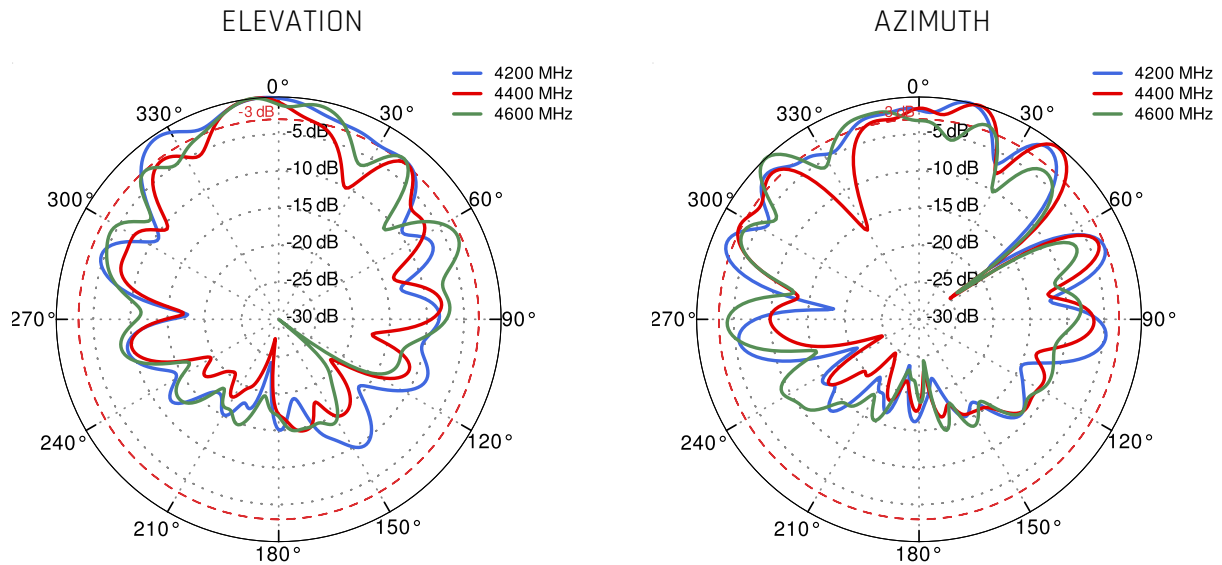
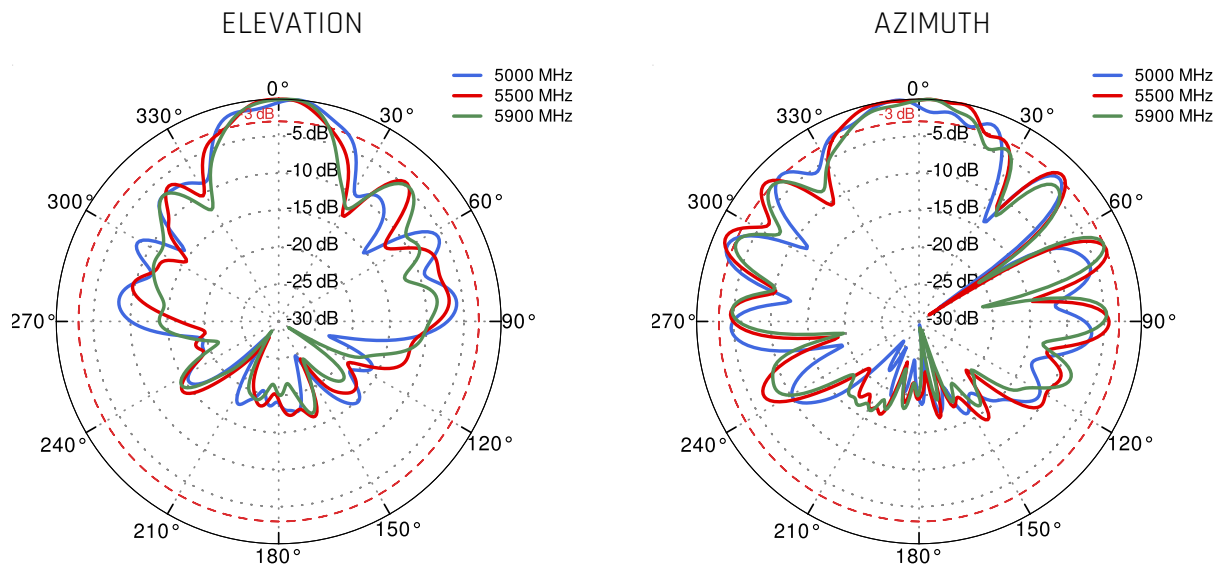


**PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz**

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


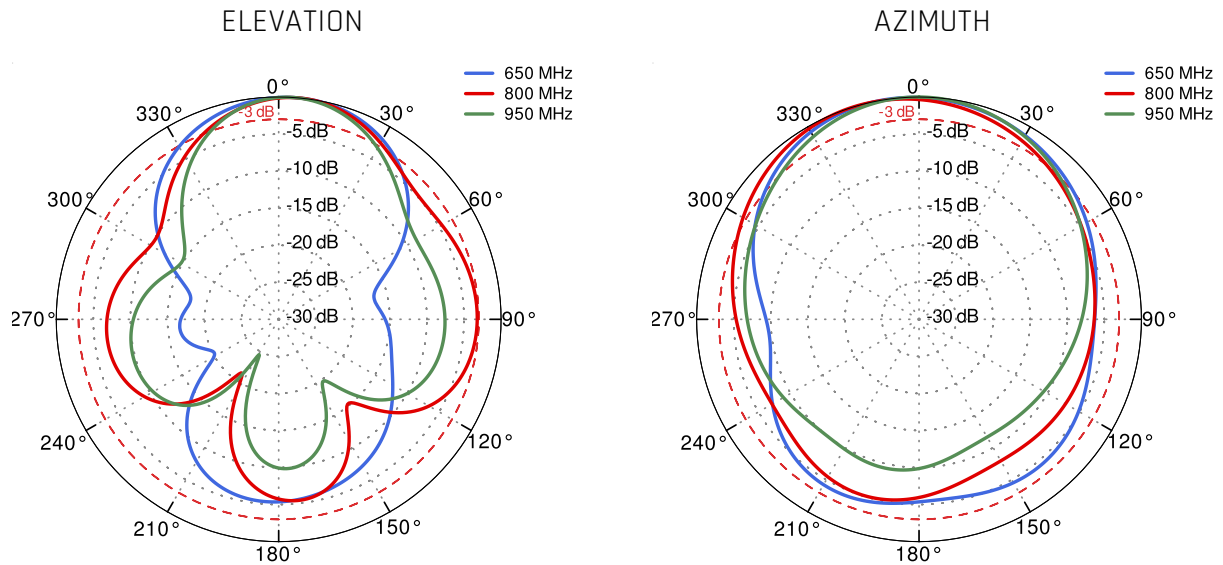
**VERSION / 2.31**

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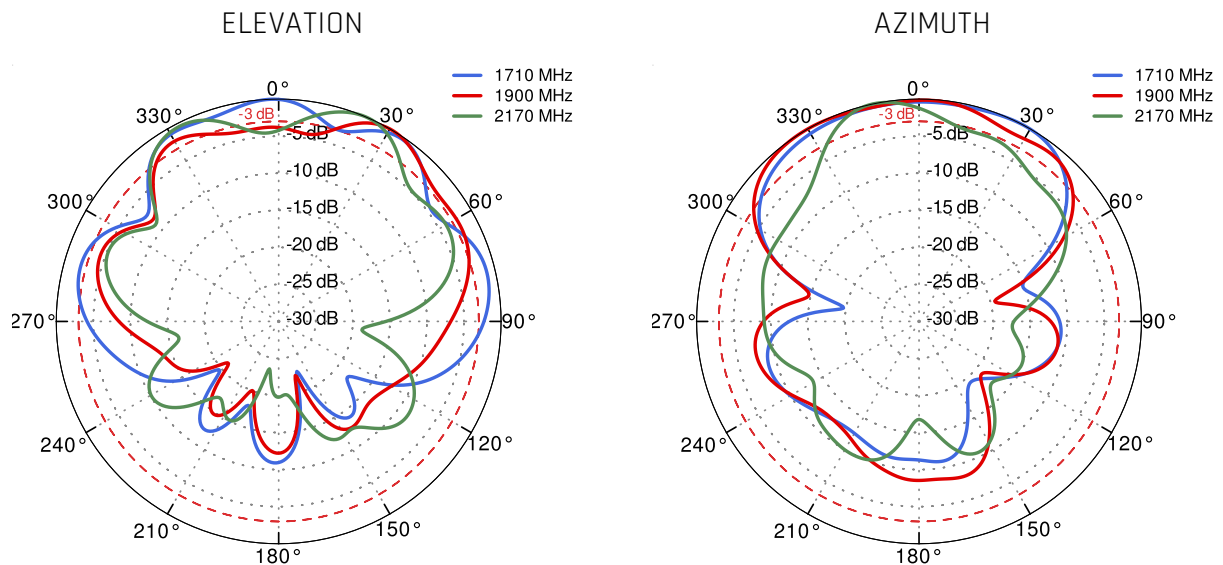
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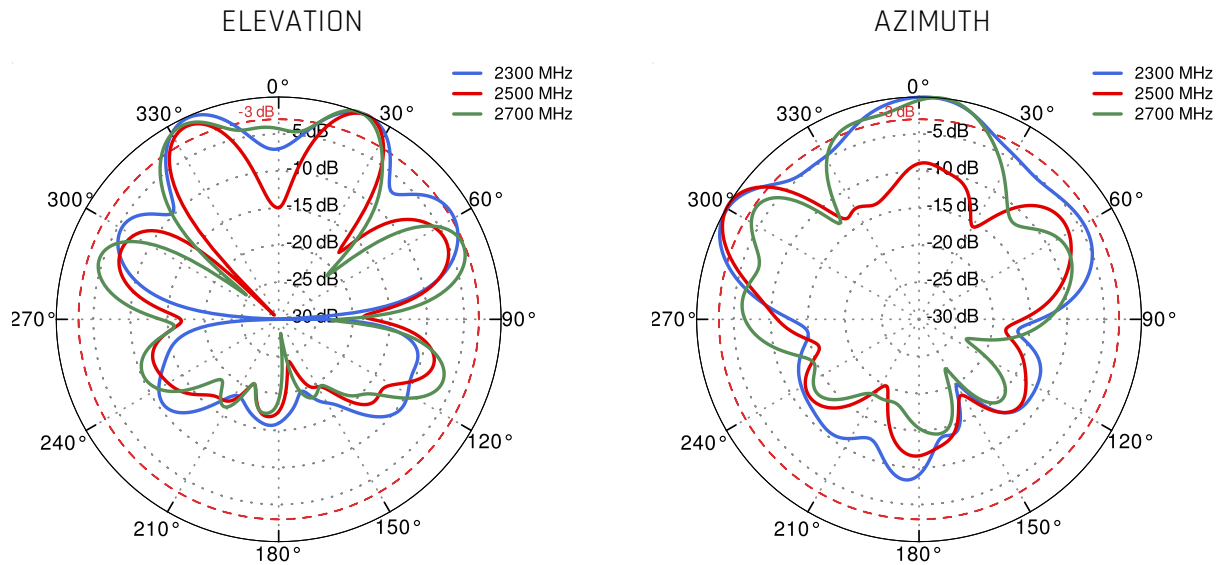
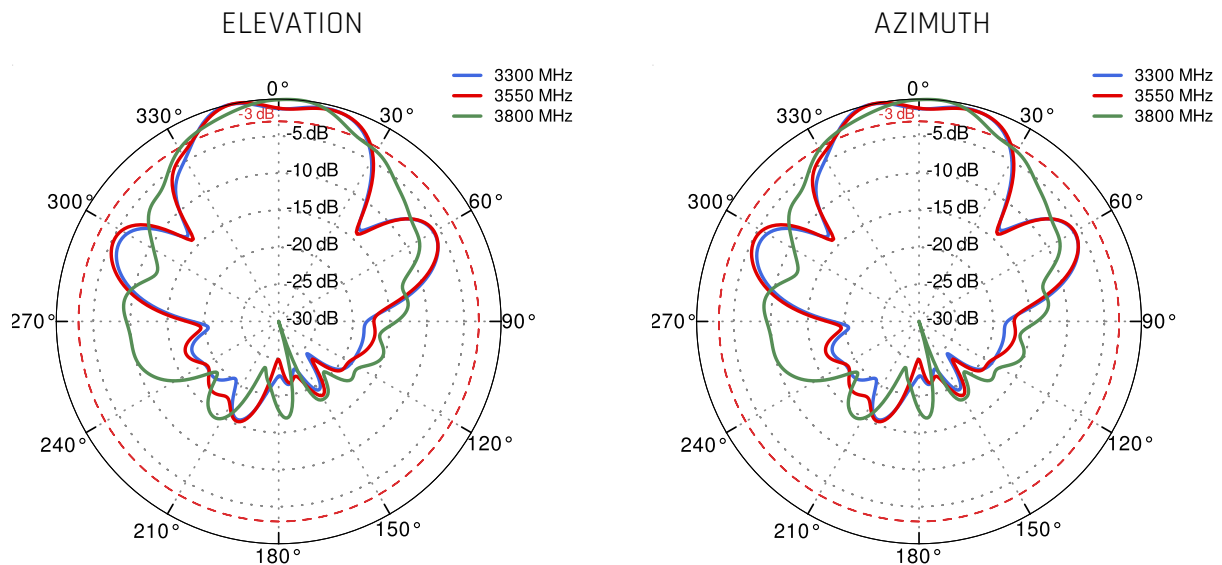
**PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz**

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


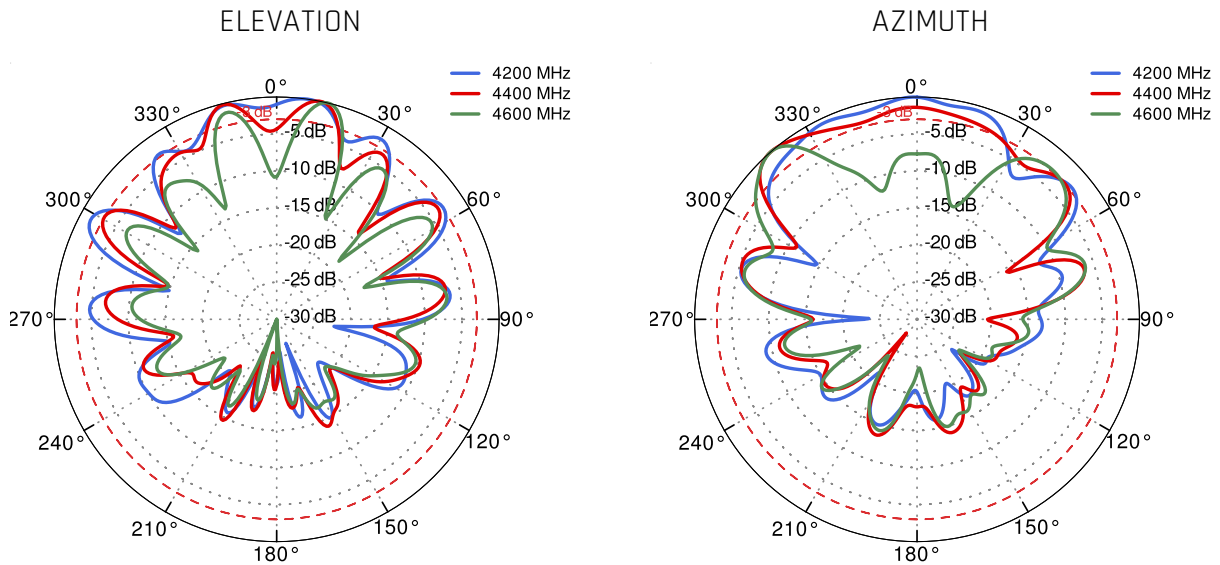
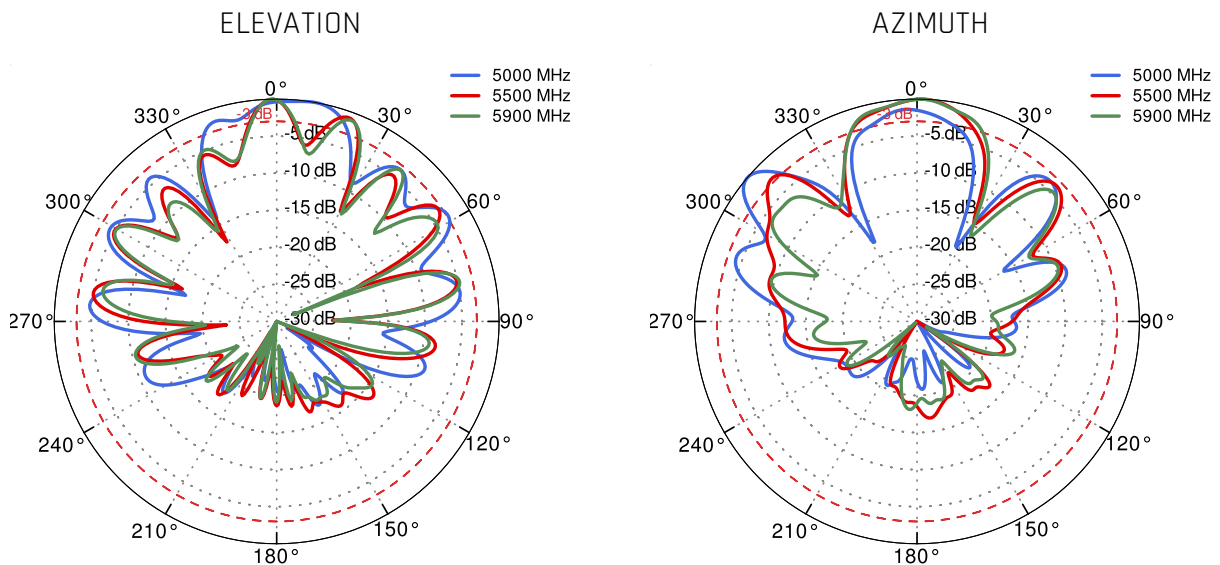
PORT 2&4 - 5G/LTE from 650MHz to 950MHz



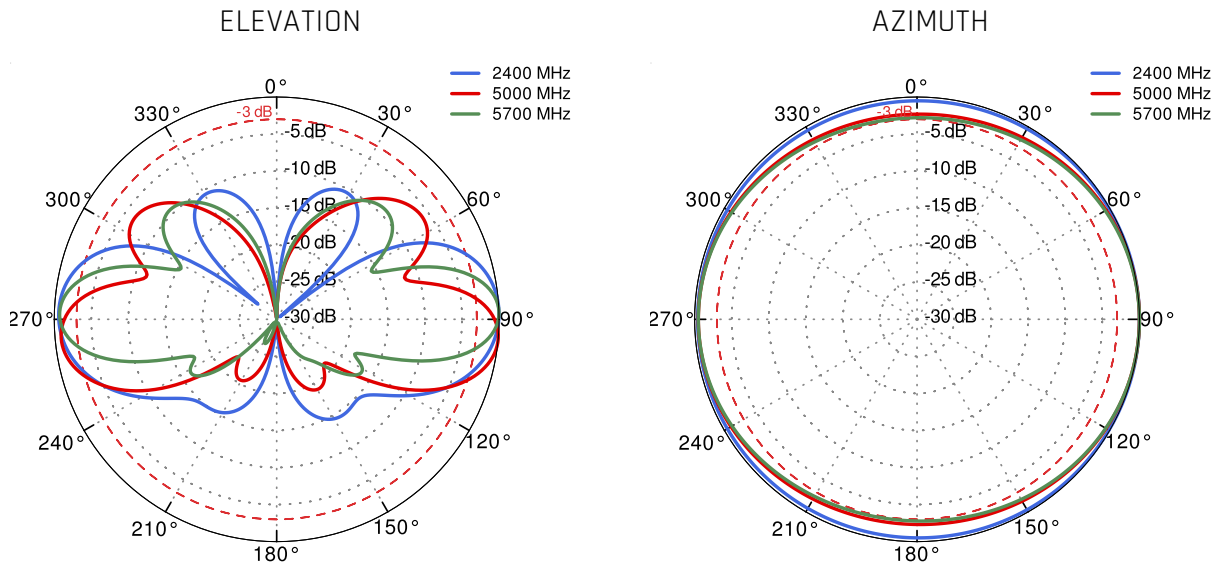
PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz



**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**


Wi-Fi 2.4GHz and 5GHz



**DIMENSIONS**

