

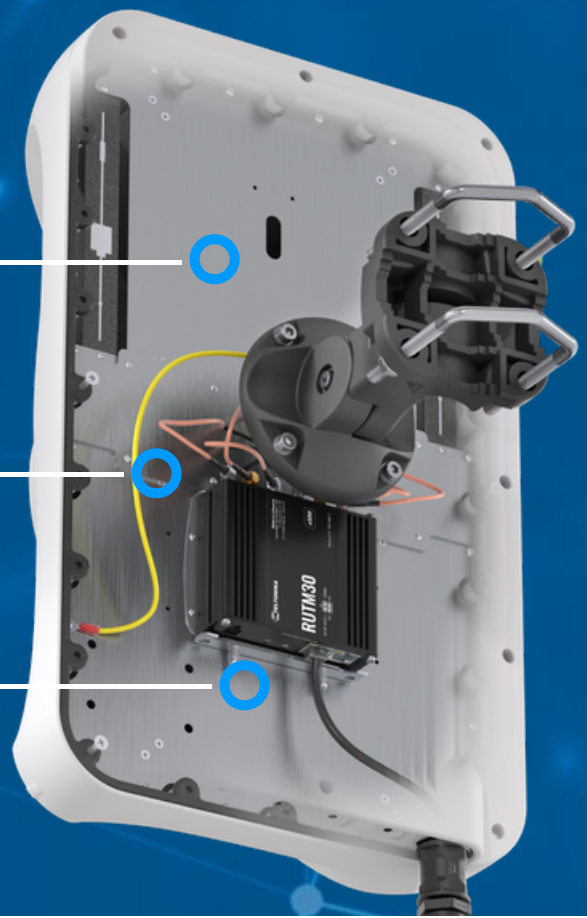
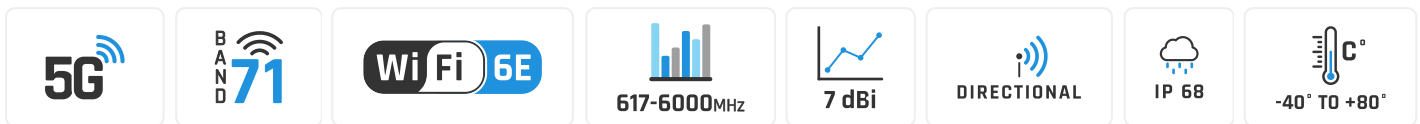
# QuMax for Teltonika

## RUTM20/RUTM30/RUTM31

**INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + WI-FI OMNI ANTENNA + PLACE TO INSTALL TELTONIKA RUTM20/RUTM30/RUTM31 (ALL-IN-ONE)**

QuMax for Teltonika RUTM20/RUTM30/RUTM31 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 and Wi-Fi antennas, integrated in IP68 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 RUTM20/RUTM30/RUTM31 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

## 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

## 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 105.6 mm 19.13 x 11.50 x 4.16 inch
<b>WEIGHT</b>	2.8 kg 6.17 lbs
<b>OPERATING TEMPERATURE</b>	From -40°C to 80°C From -40°F to 176°F
<b>ENCLOSURE RECOMMENDED TIGHTENING TORQUE</b>	0.6 - 0.8 Nm
<b>MAST DIAMETER</b>	25-66mm 0.98-2.60 inch

# FREQUENCY BANDS

LTE / 4G

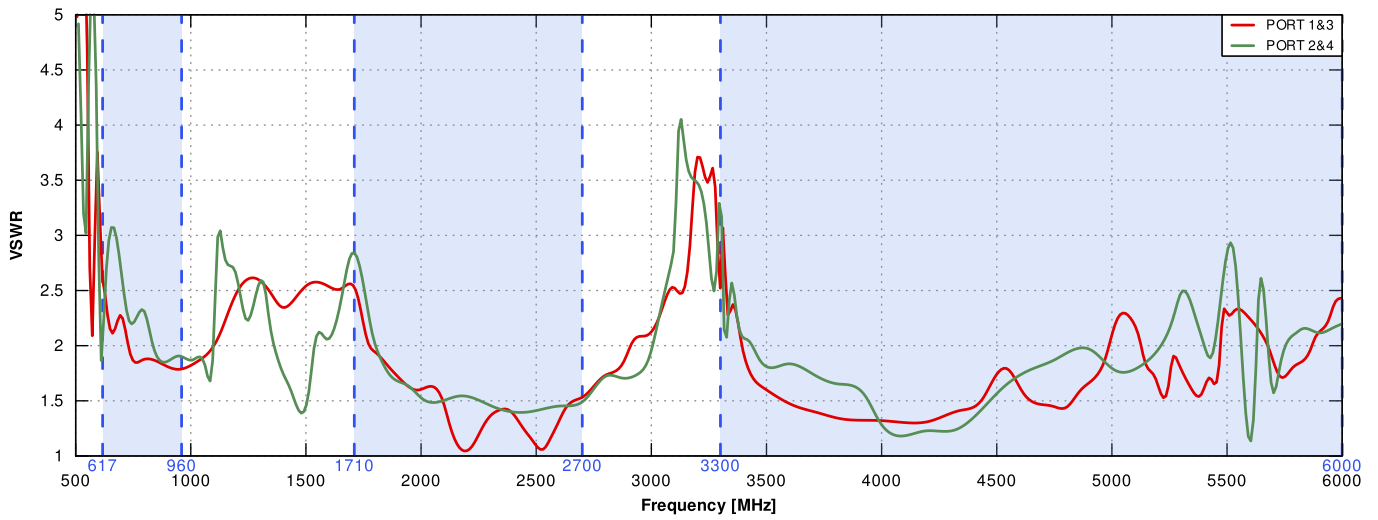
617 MHz	1	2	3	4	5	7	8	6000M Hz
	9	10	12	13	14	17	18	
	19	20	22	25	26	27	28	
	29	30	33	34	35	36	37	
	38	39	40	41	42	43	44	
	46	47	48	49	52	53	65	
	66	67	68	69	71	85	103	
	106							

5G

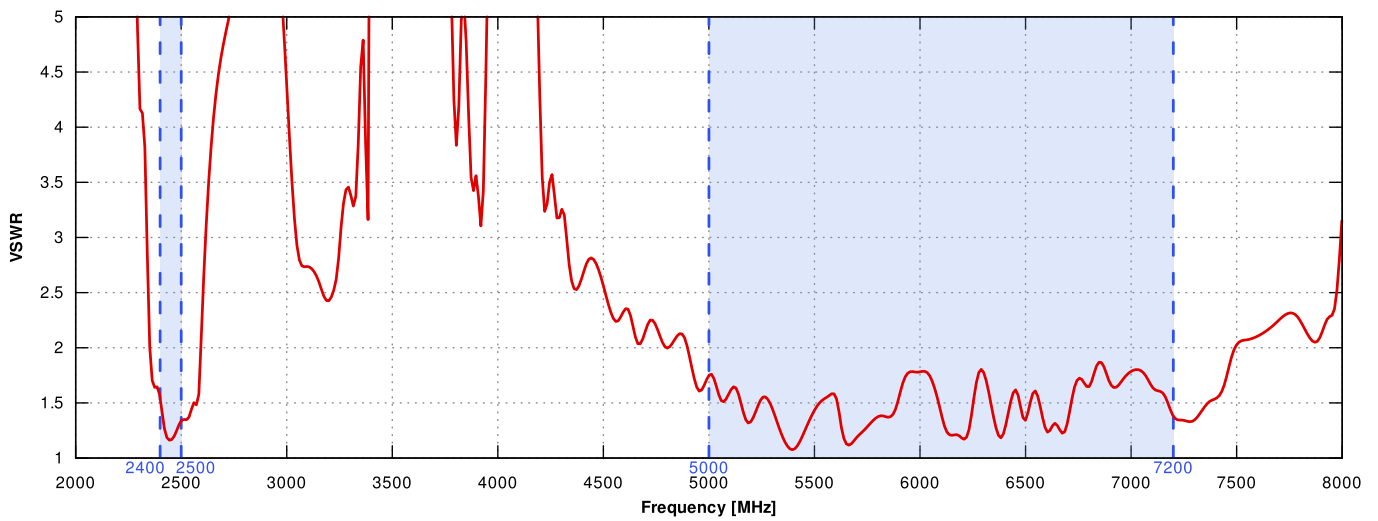
617 MHz	n1	n2	n3	n5	n7	n8	n12	6000 MHz
	n13	n14	n18	n20	n25	n26	n28	
	n29	n30	n34	n38	n39	n40	n41	
	n46	n47	n48	n53	n65	n66	n67	
	n71	n77	n78	n80	n81	n82	n83	
	n84	n85	n86	n89	n90	n95	n97	
	n98	n100	n101	n255				

## PLOTS

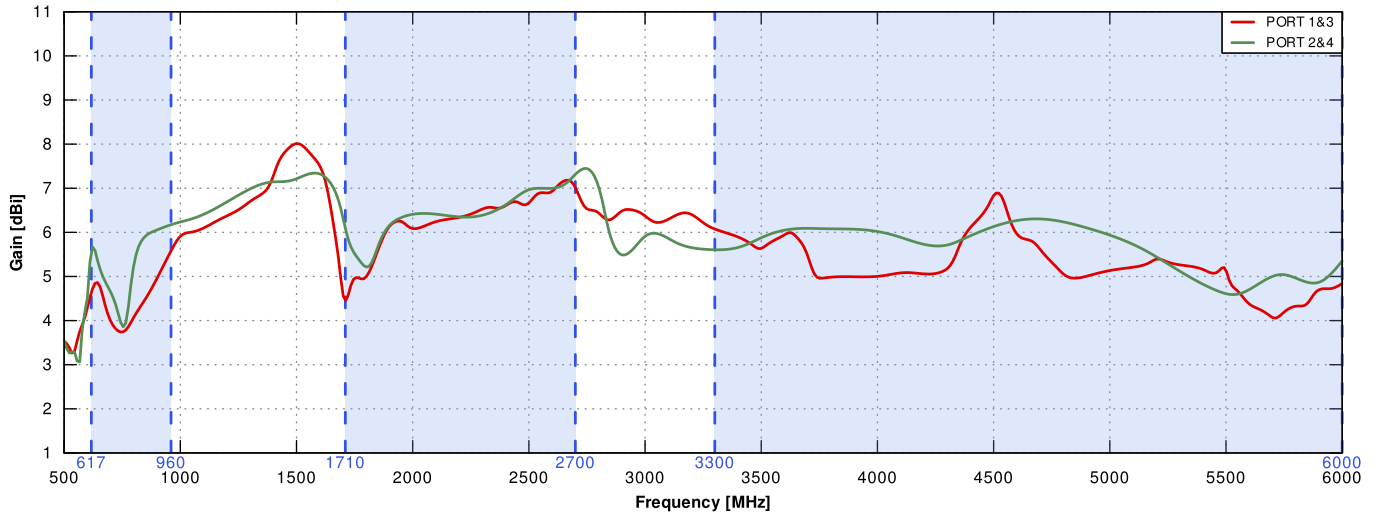
### VSWR for 5G/LTE antenna



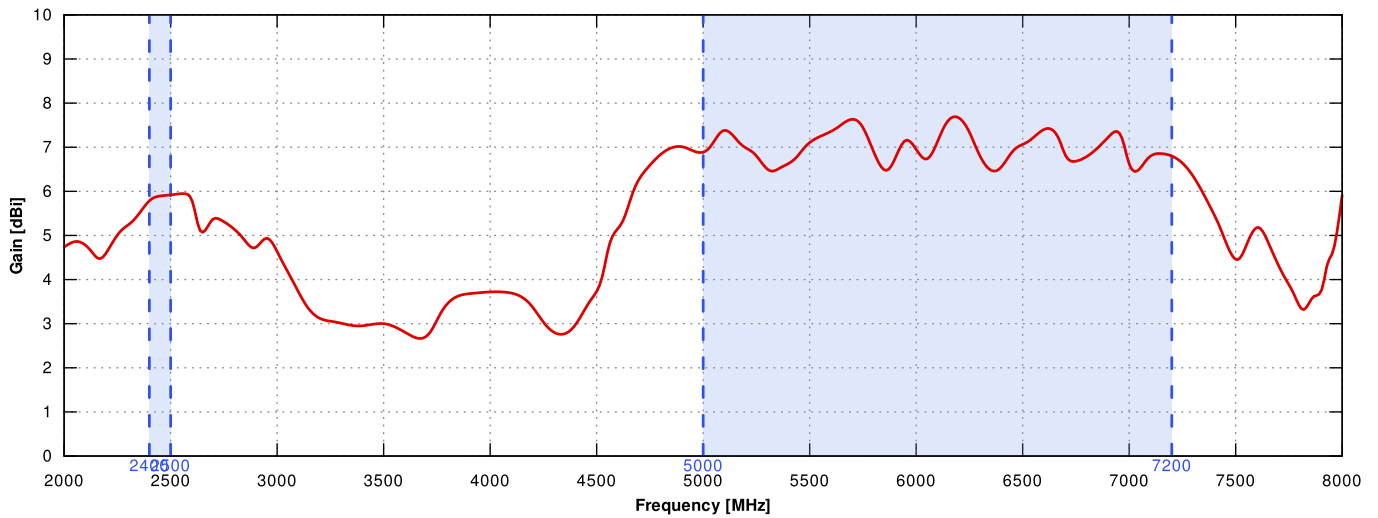
### VSWSR for Wi-Fi antenna

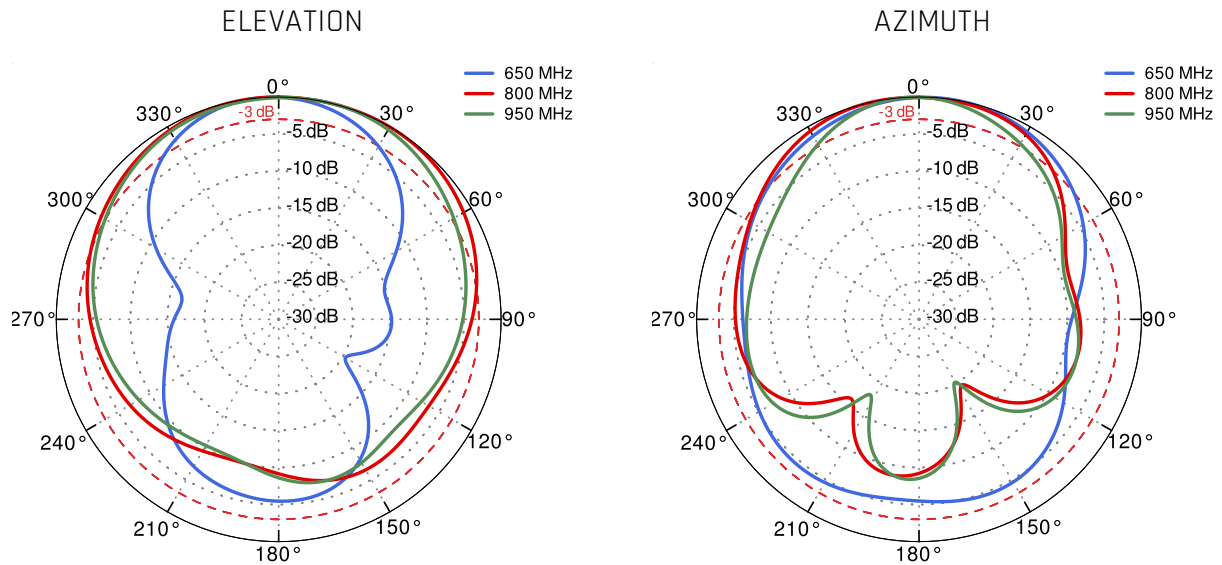
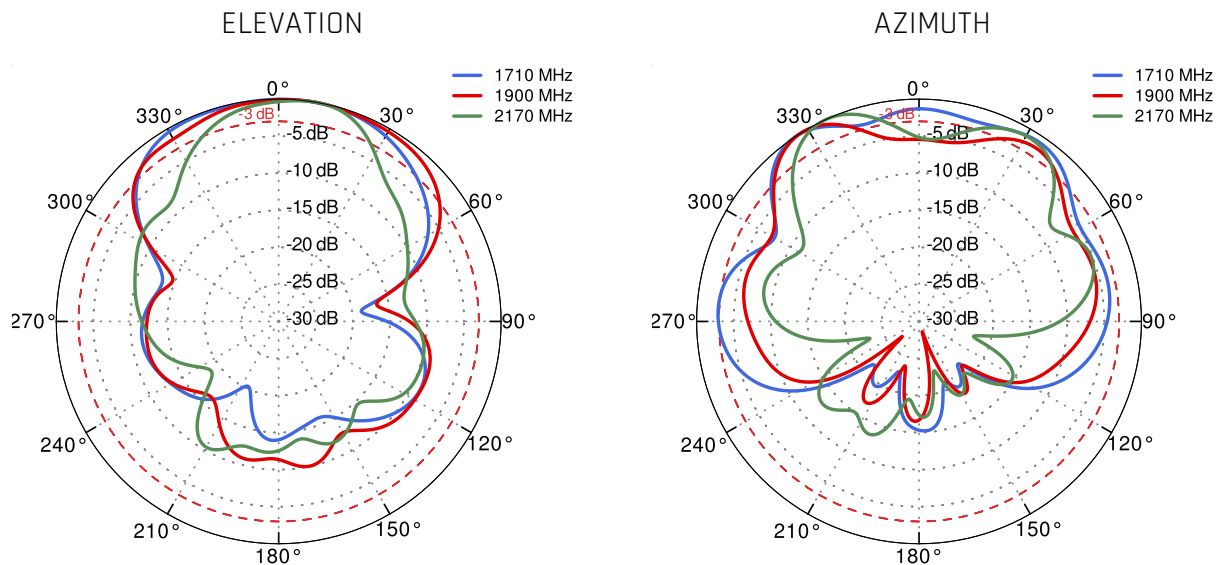


### Gain for 5G/LTE antenna

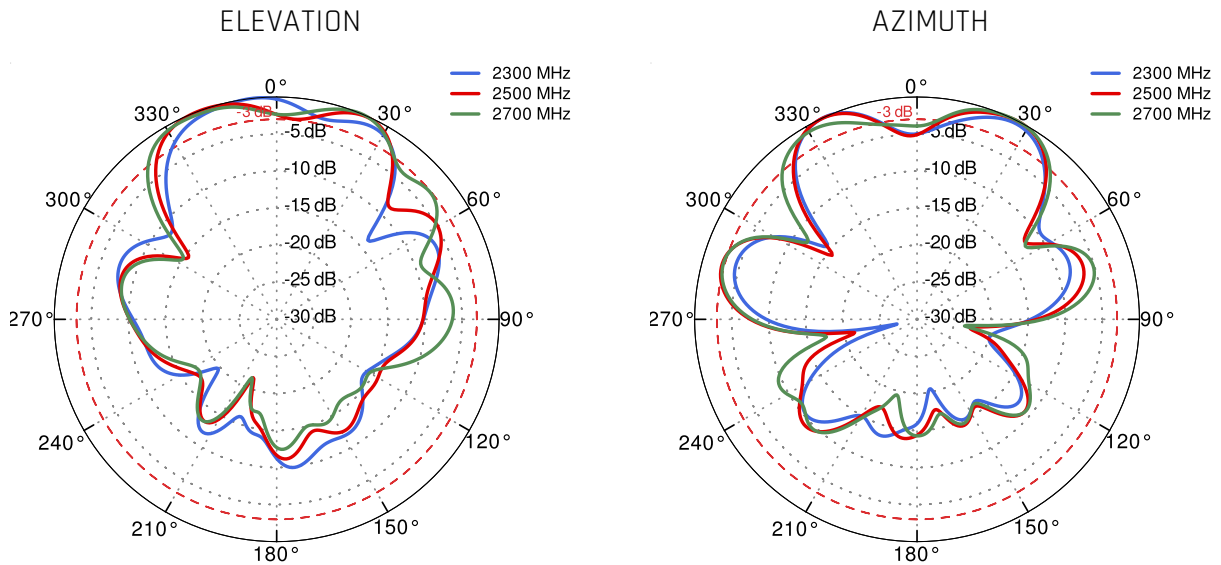


### Gain for Wi-Fi antenna

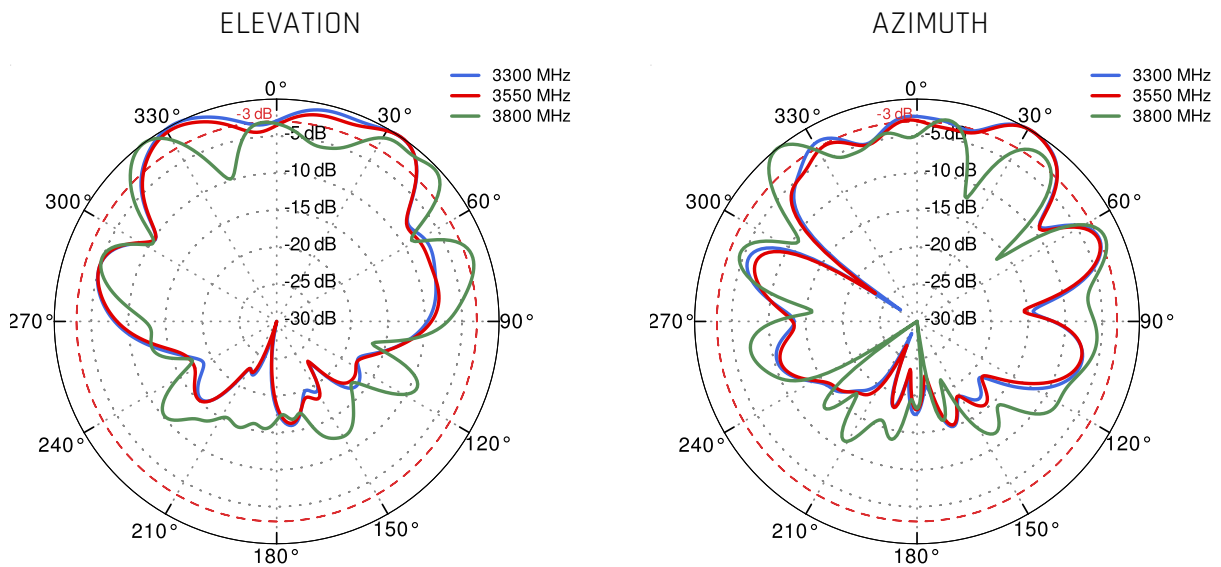


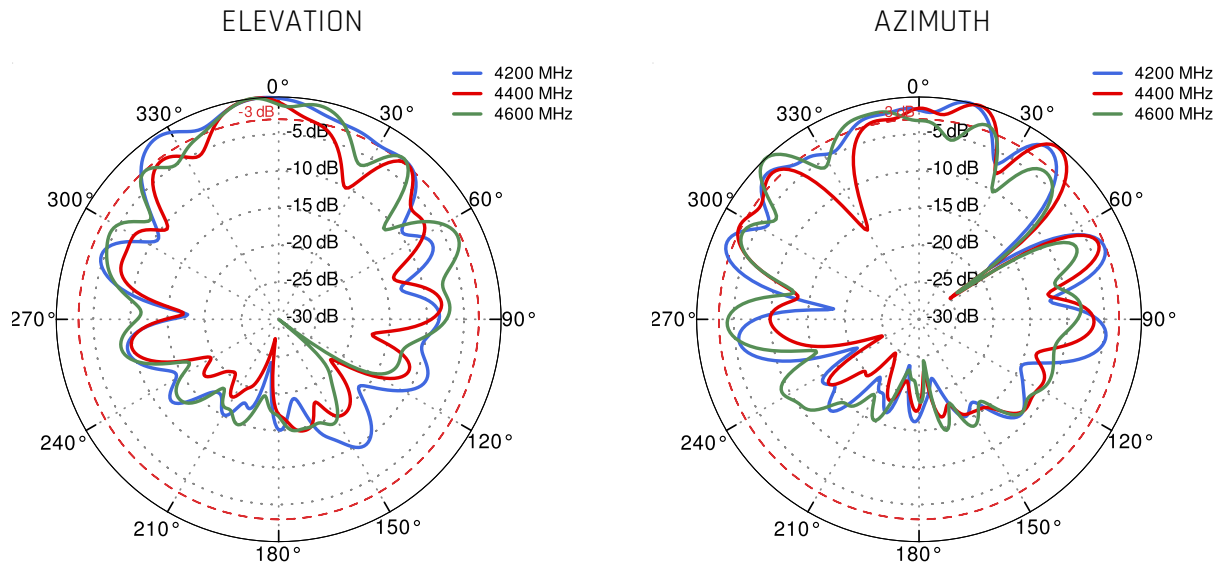
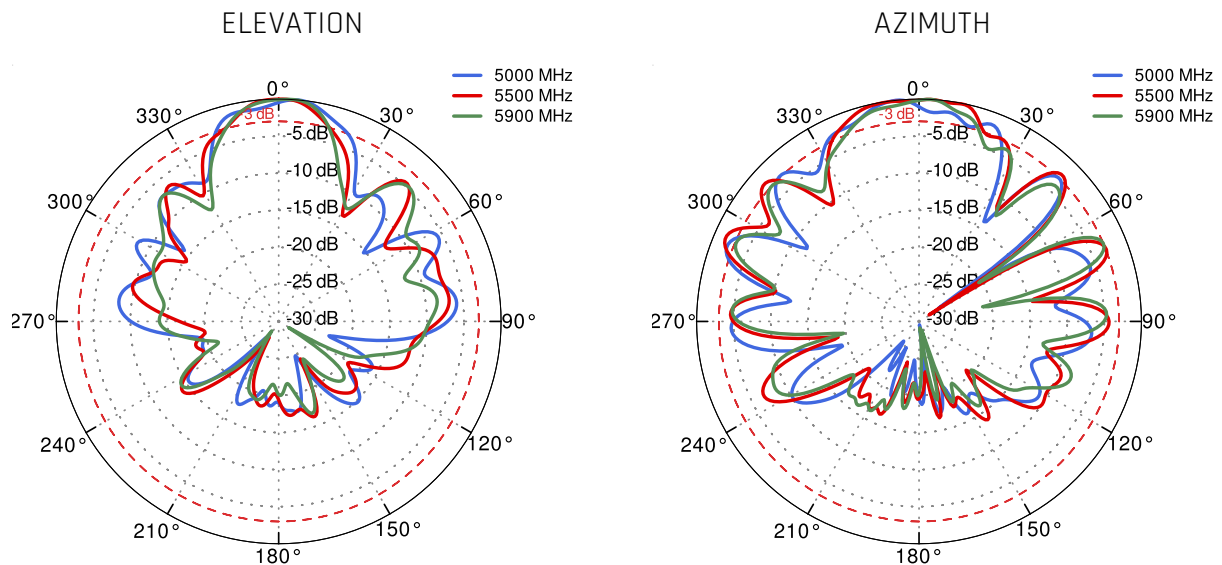
**PORT 1&3 - 5G/LTE from 650MHz to 950MHz**

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


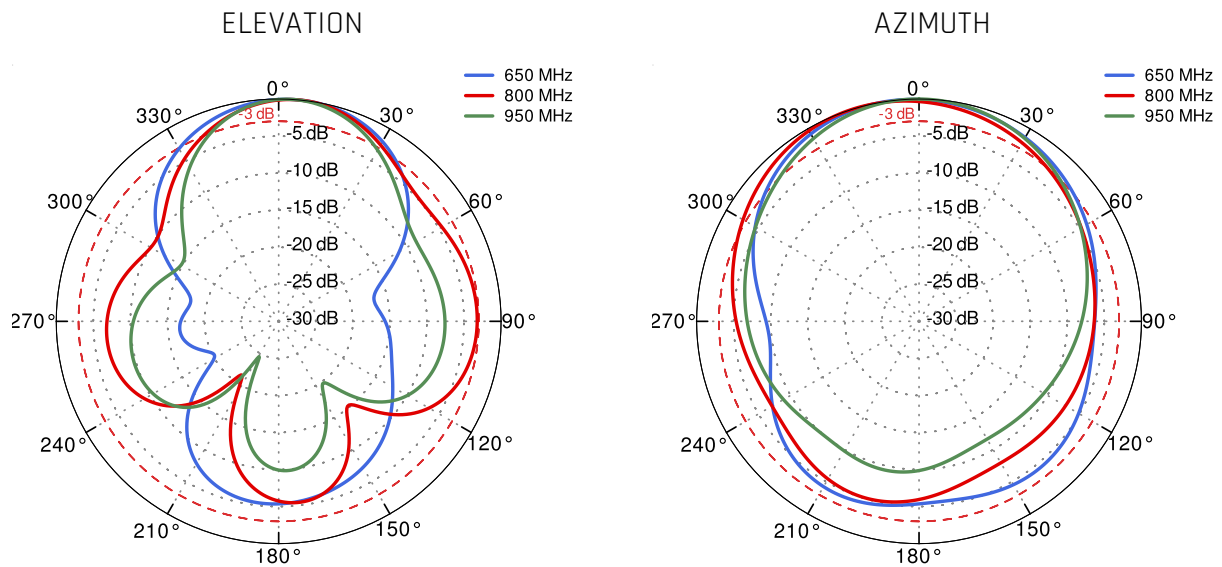
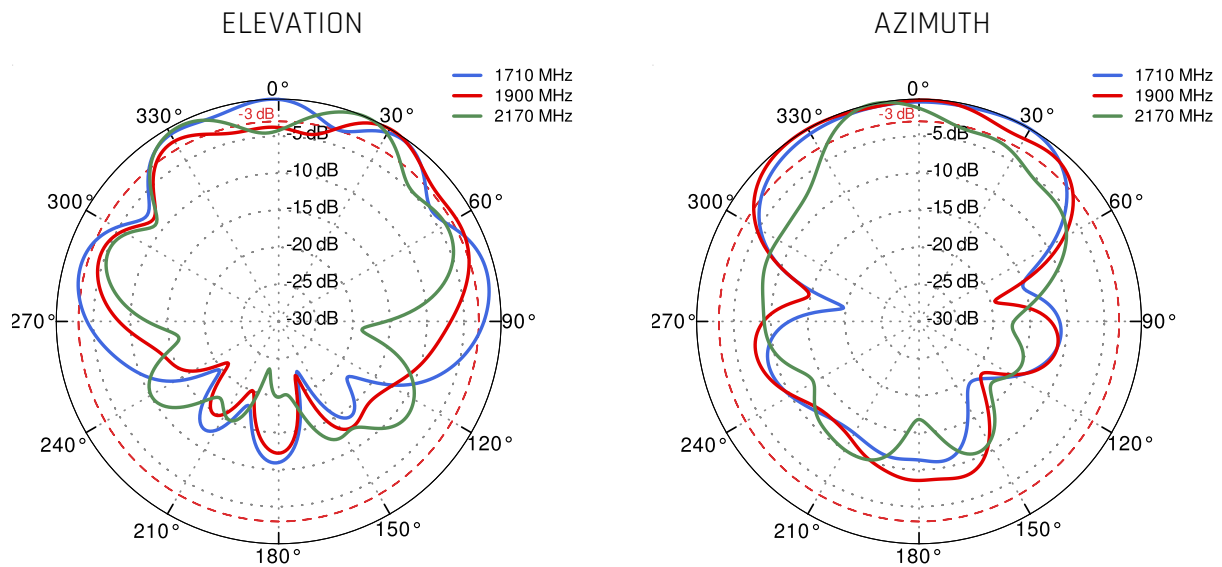
PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz

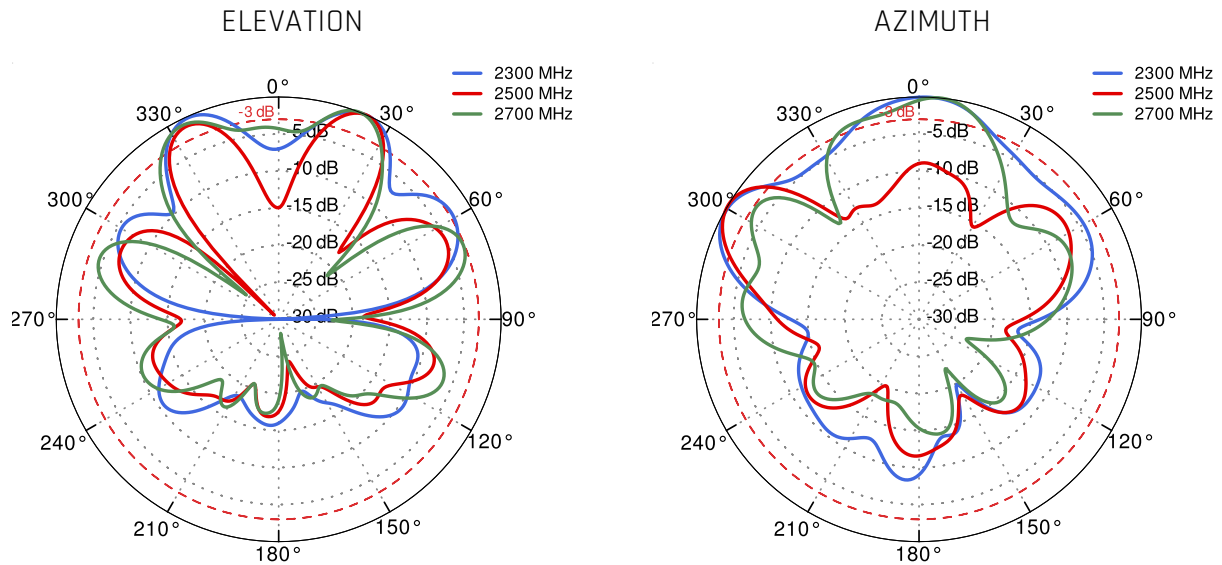
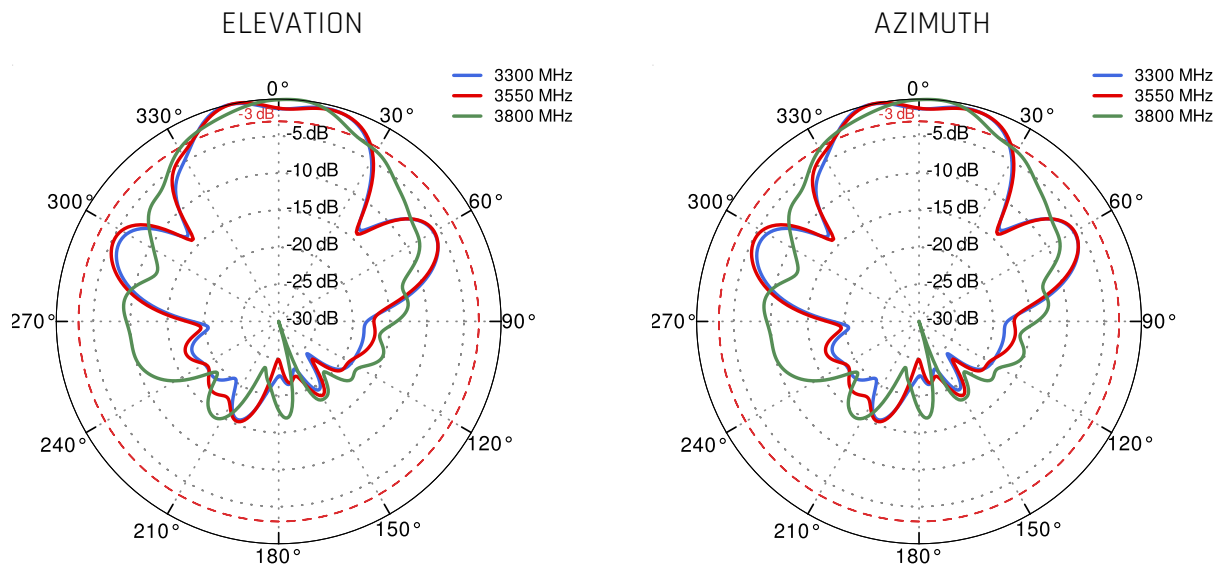


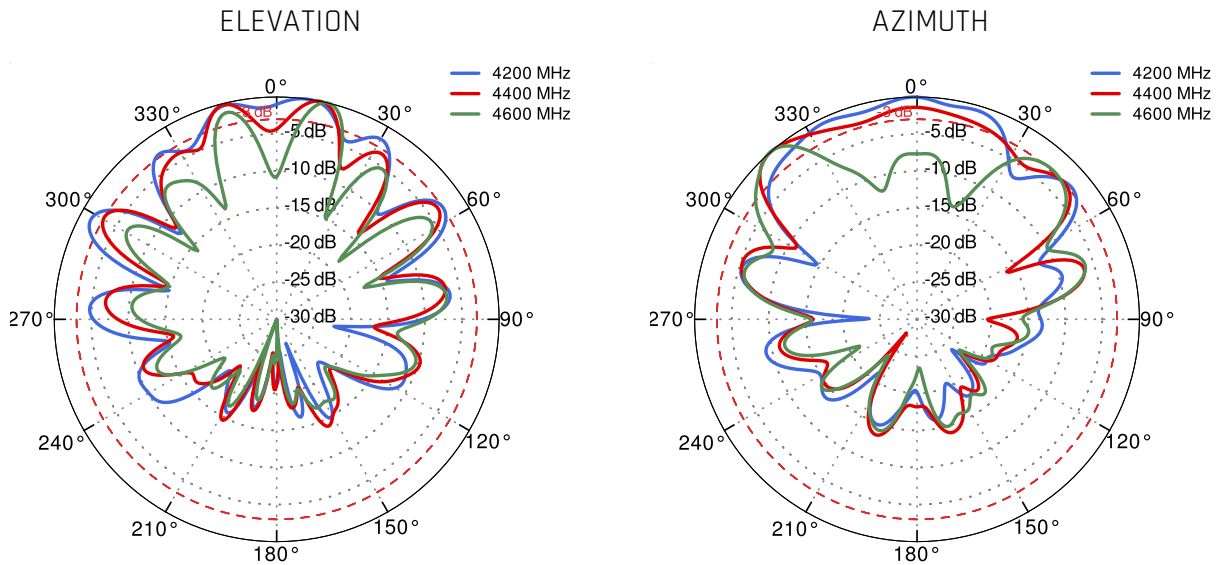
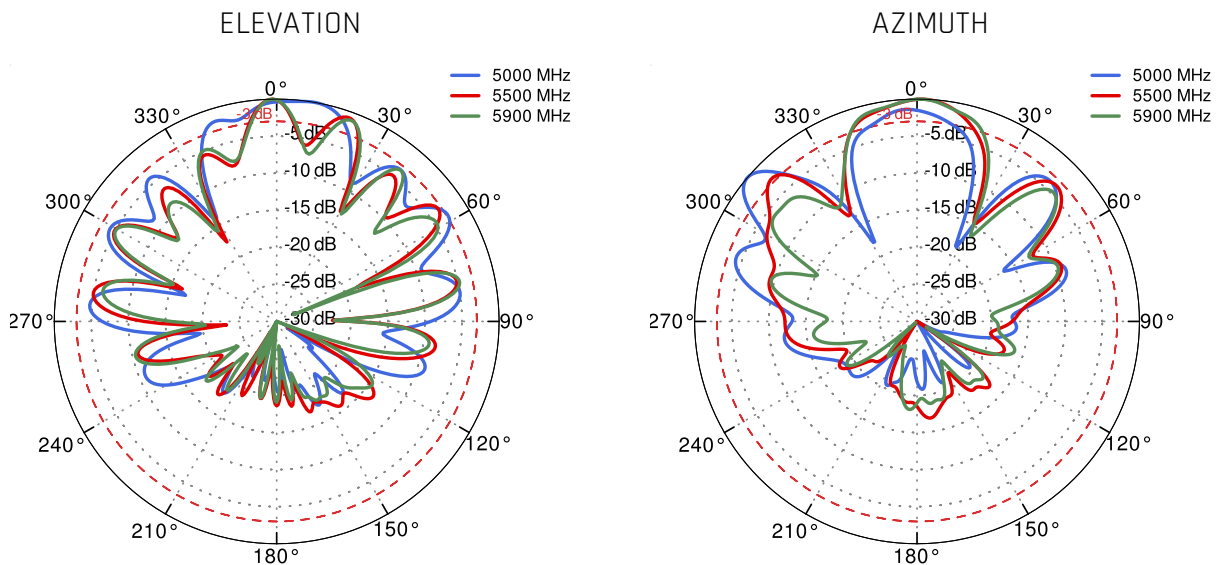
PORT 1&3 - 5G/LTE from 3.3GHz to 3.8GHz



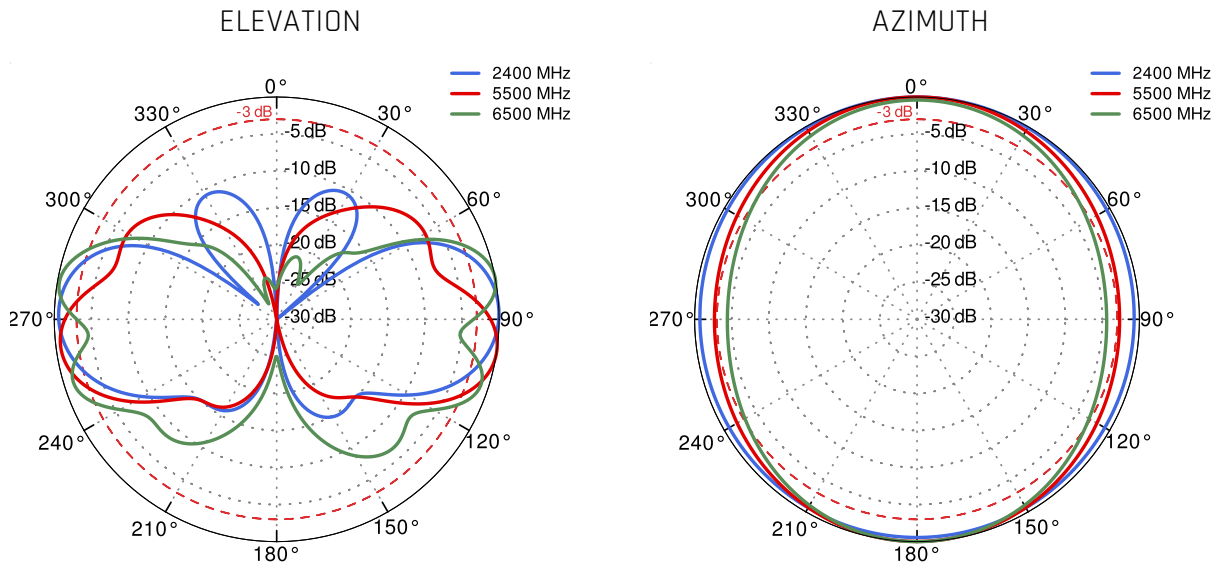
**PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz**

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


**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&4 - 5G/LTE from 4.2GHz to 4.6GHz**

**PORT 2&4 - 5G/LTE from 5.0GHz to 5.9GHz**


Wi-Fi 2.4GHz and 5GHz and 6GHz



**DIMENSIONS**

