

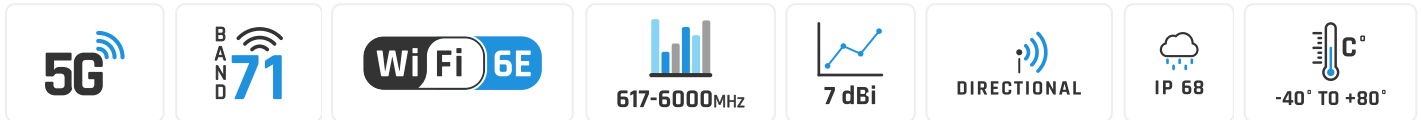
# QuMax for MikroTik RBxxx

## INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + WI-FI OMNI ANTENNA + PLACE TO INSTALL MikroTik RB series(ALL-IN-ONE)

QuMax is a high performance directional antenna designed for use in a variety of wireless communication applications. This all-in-one product consists of 5G MIMO 4x4 and Wi-Fi MIMO 2x2 antennas embedded 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.

Four ultra wide band 5G antennas and two Wi-Fi 6E antennas make an universal solution and enable to integrate MikroTik boards in many different combinations, based on RB912, RB922, RBM11G or RBM33G.

Combining QuMax with MikroTik inside the antenna housing gives you complete outdoor solution with multiple use scenarios such as transportation, farming, 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

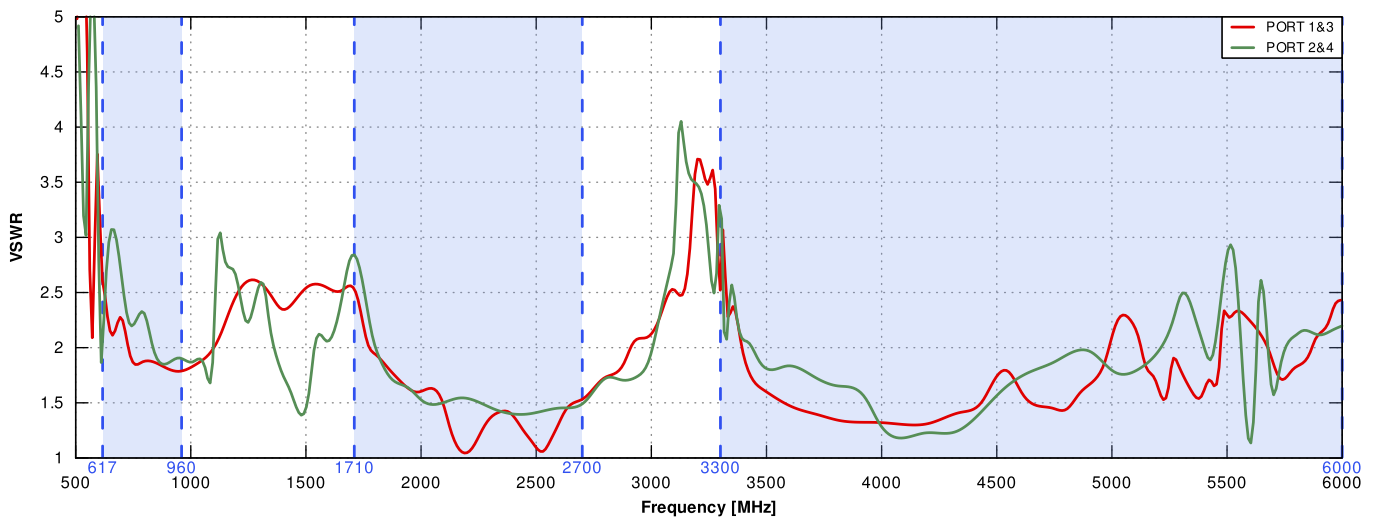
617 MHz	1	2	3	4	5	7	8	6000M Hz
	9	10	12	13	14	17	18	
	19	20	22	25	26	27	28	
	29	30	33	34	35	36	37	
	38	39	40	41	42	43	44	
	46	47	48	49	52	53	65	
	66	67	68	69	71	85	103	
	106							

5G

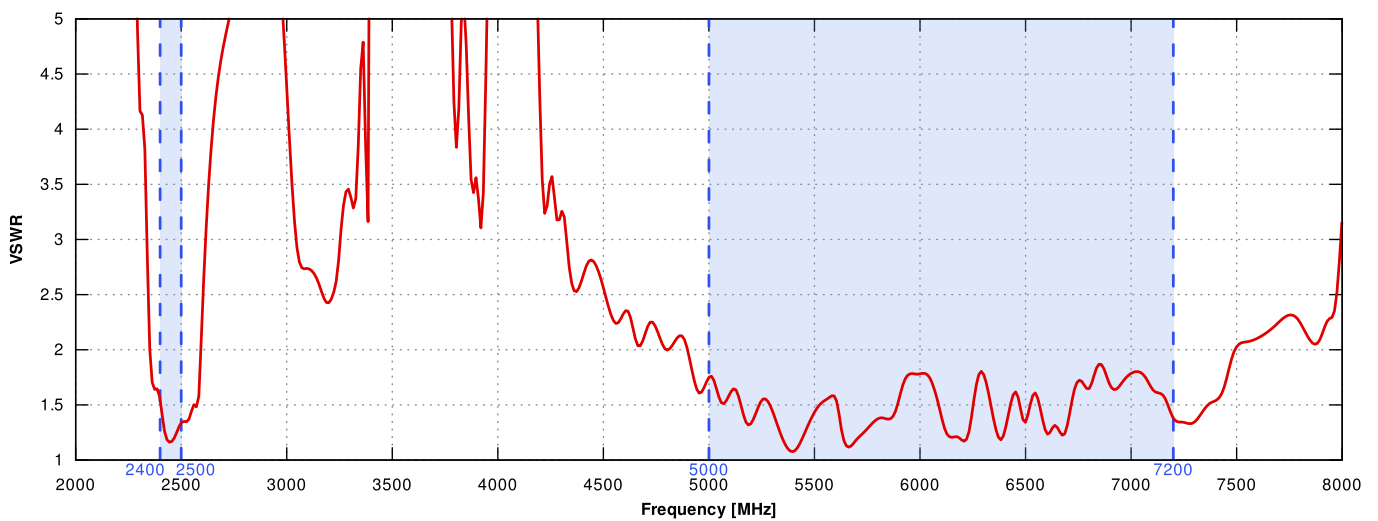
617 MHz	n1	n2	n3	n5	n7	n8	n12	6000 MHz
	n13	n14	n18	n20	n25	n26	n28	
	n29	n30	n34	n38	n39	n40	n41	
	n46	n47	n48	n53	n65	n66	n67	
	n71	n77	n78	n80	n81	n82	n83	
	n84	n85	n86	n89	n90	n95	n97	
	n98	n100	n101	n255				

# PLOTS

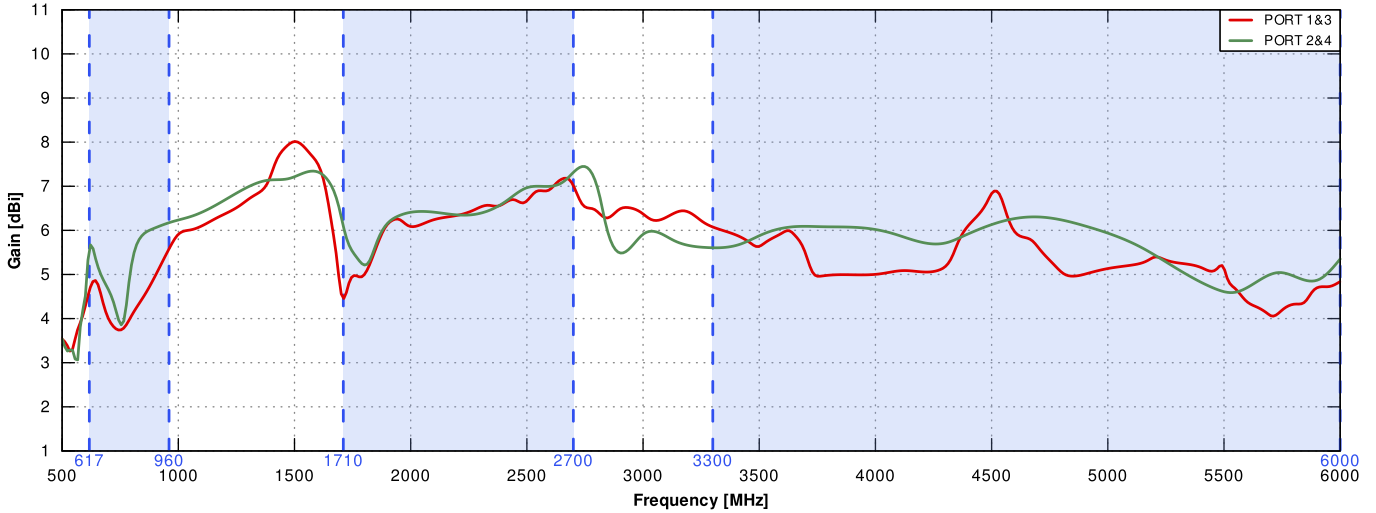
VSWR for 5G/LTE antenna



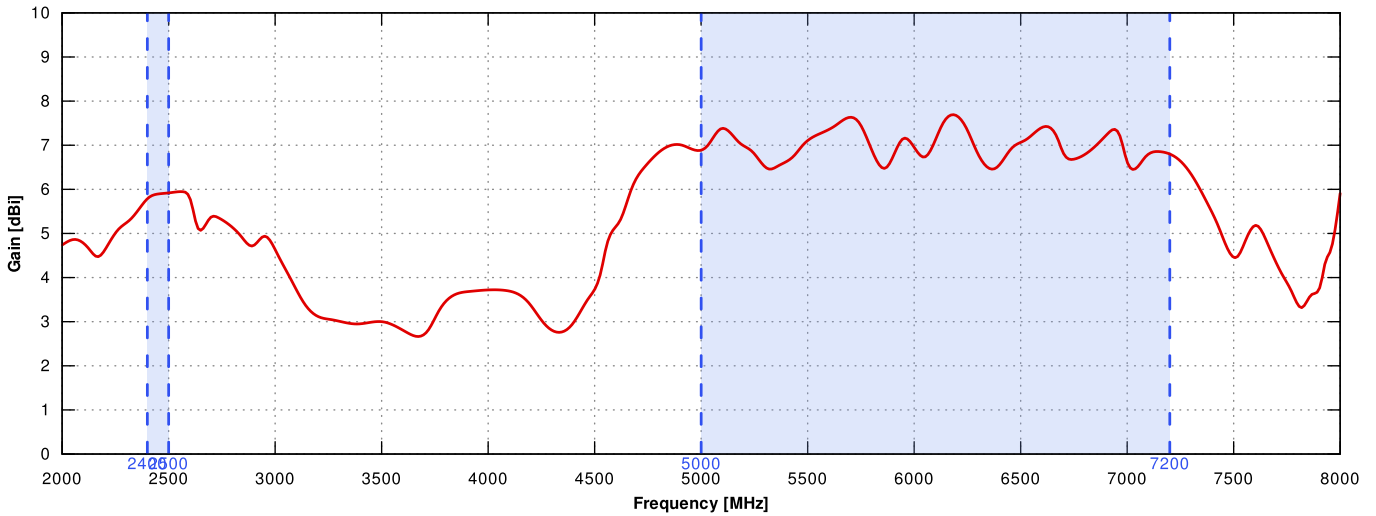
VSWR for Wi-Fi antenna



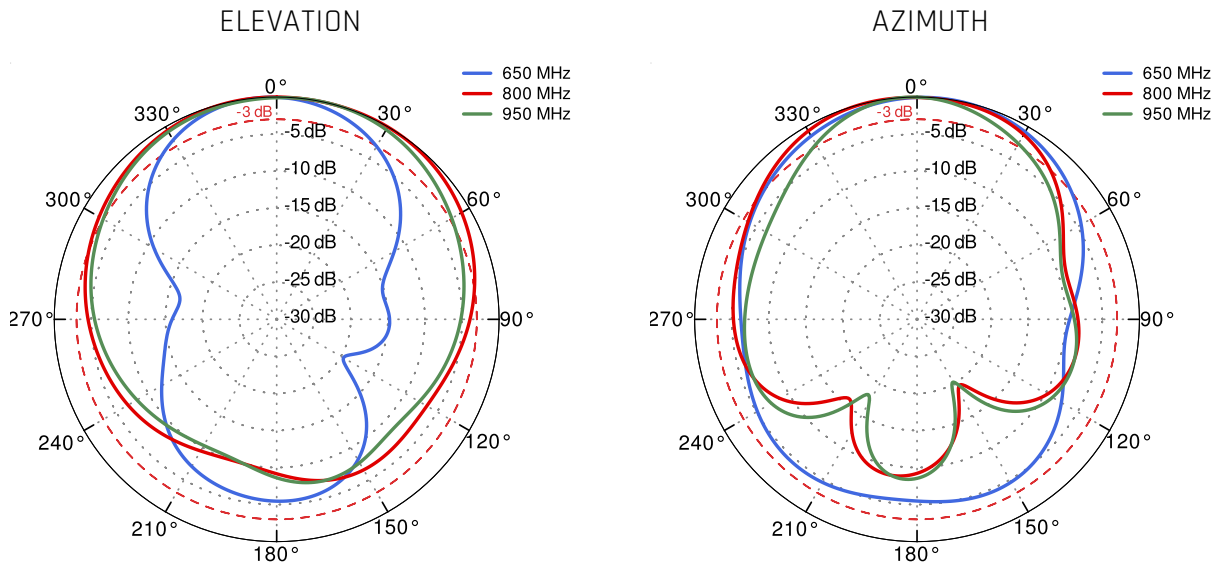
Gain for 5G/LTE antenna



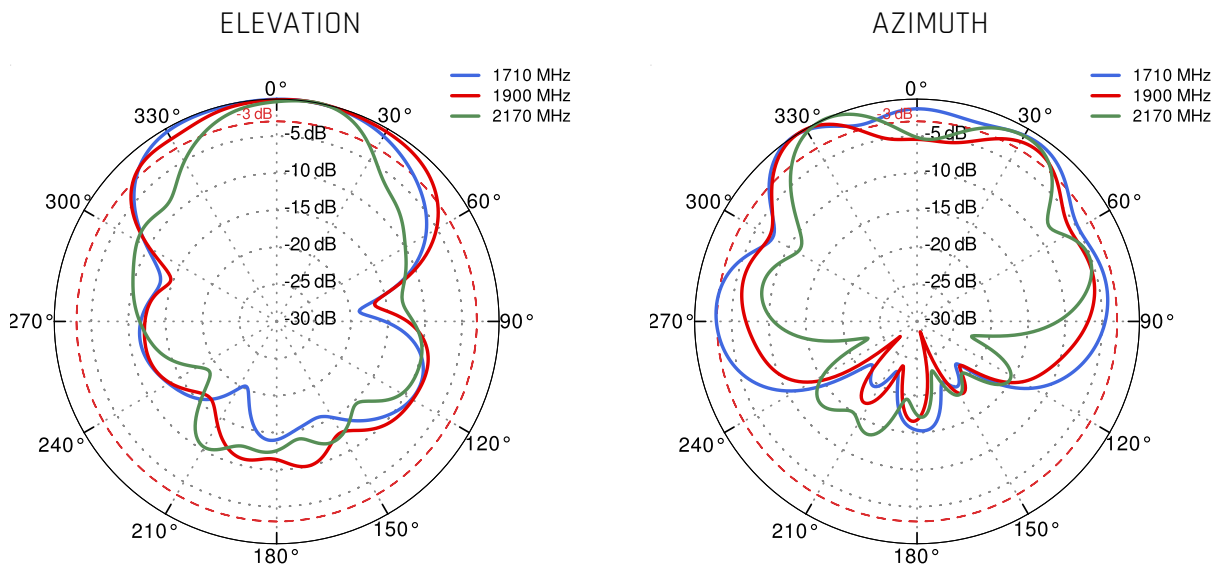
Gain for Wi-Fi antenna



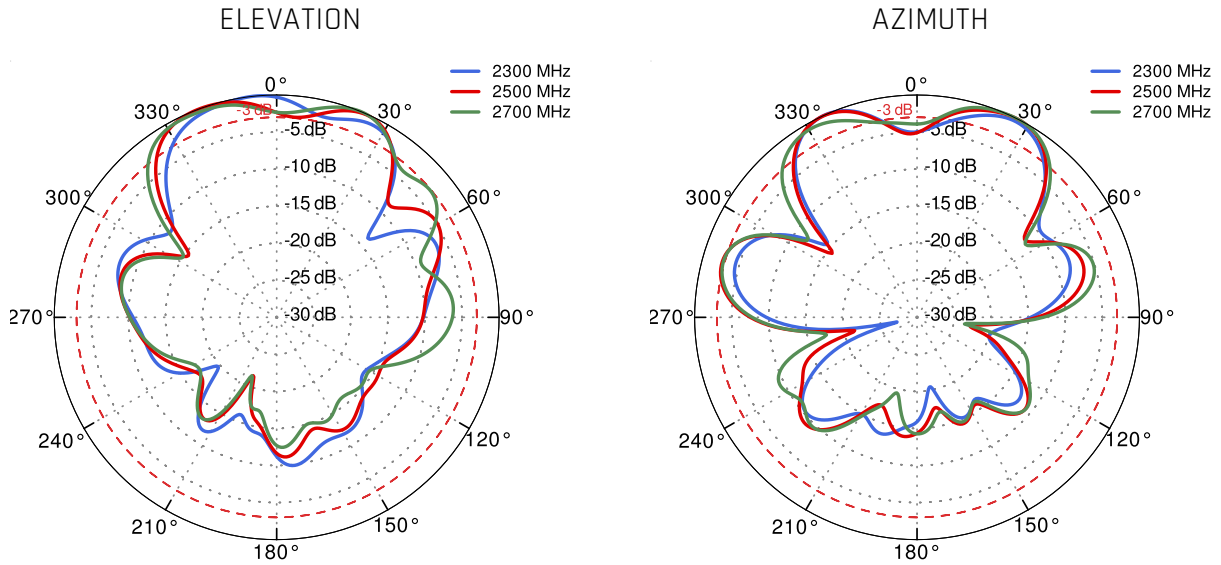
PORT 1&3 - 5G/LTE from 650MHz to 950MHz



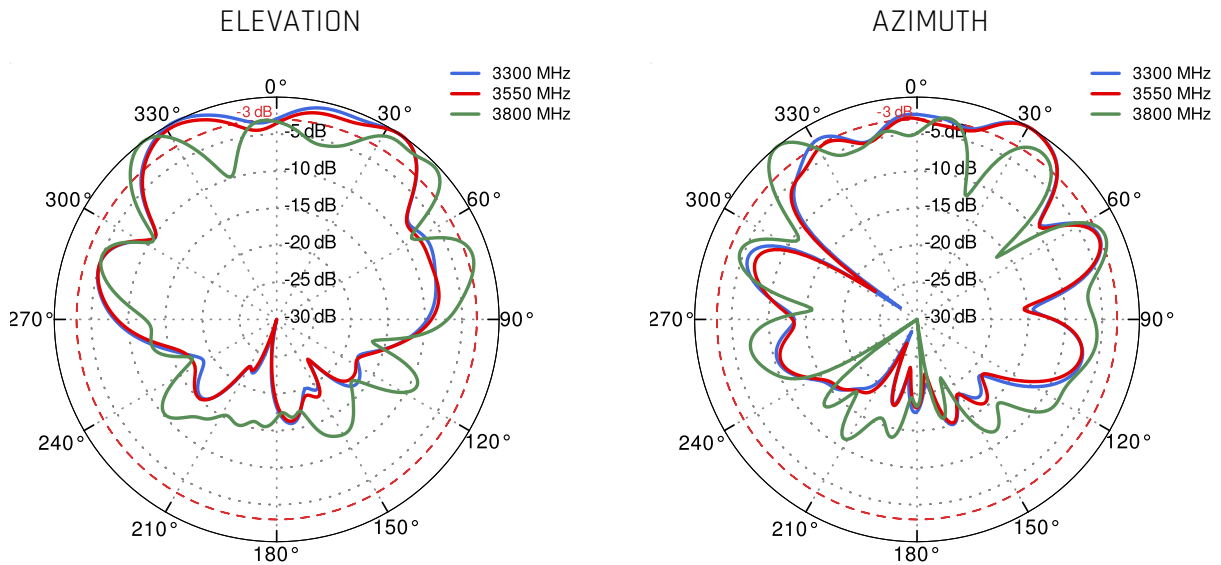
PORT 1&3 - 5G/LTE from 1.71GHz to 2.17GHz



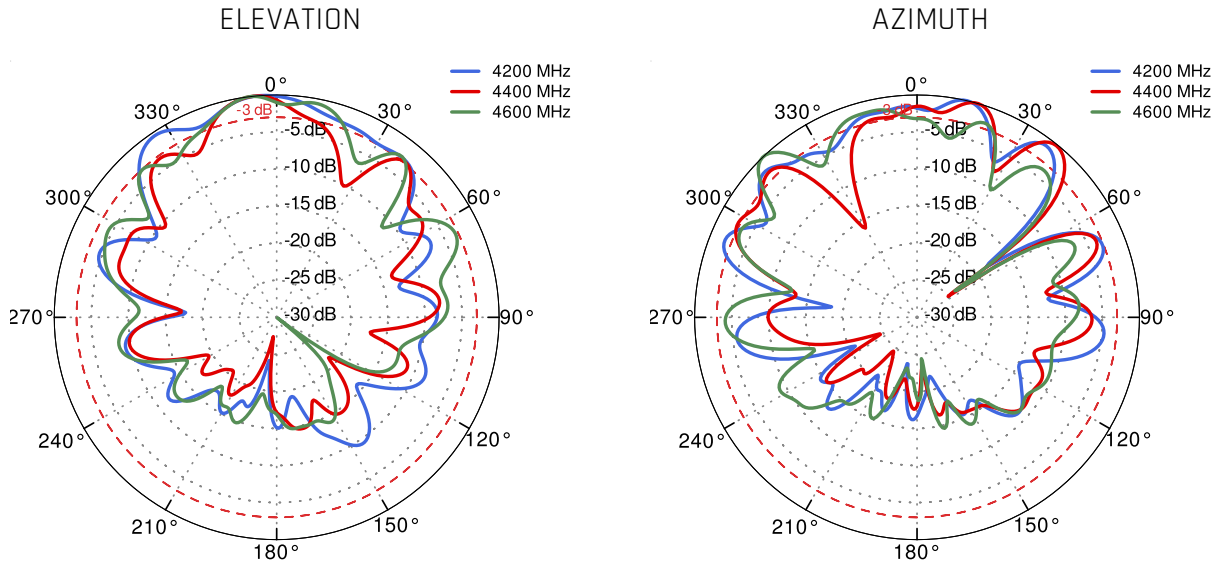
PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz



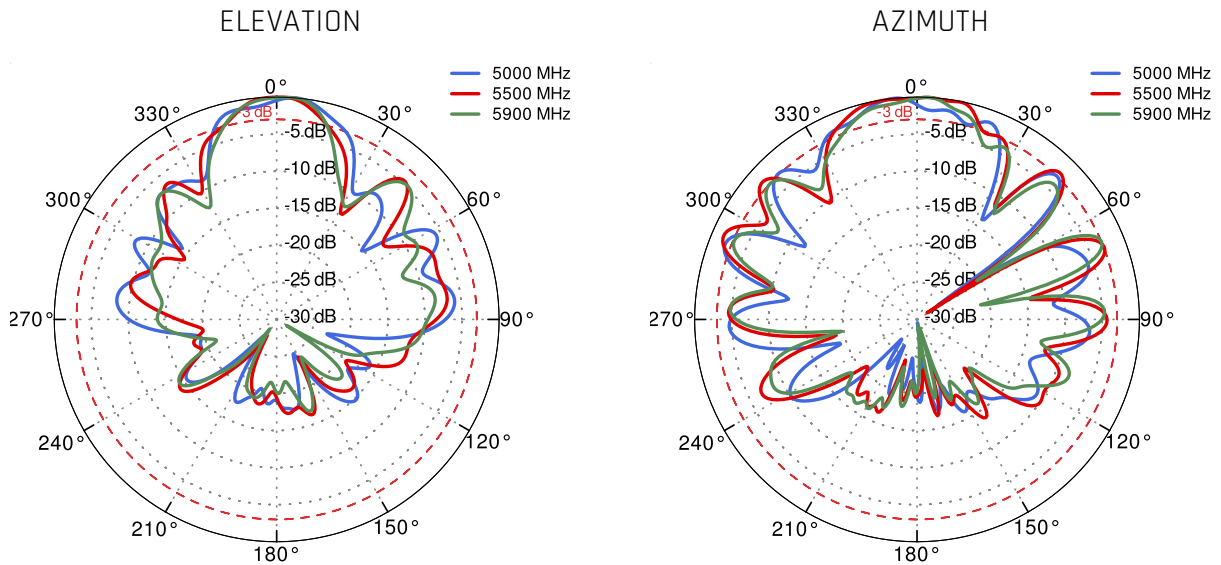
PORT 1&3 - 5G/LTE from 3.3GHz to 3.8GHz



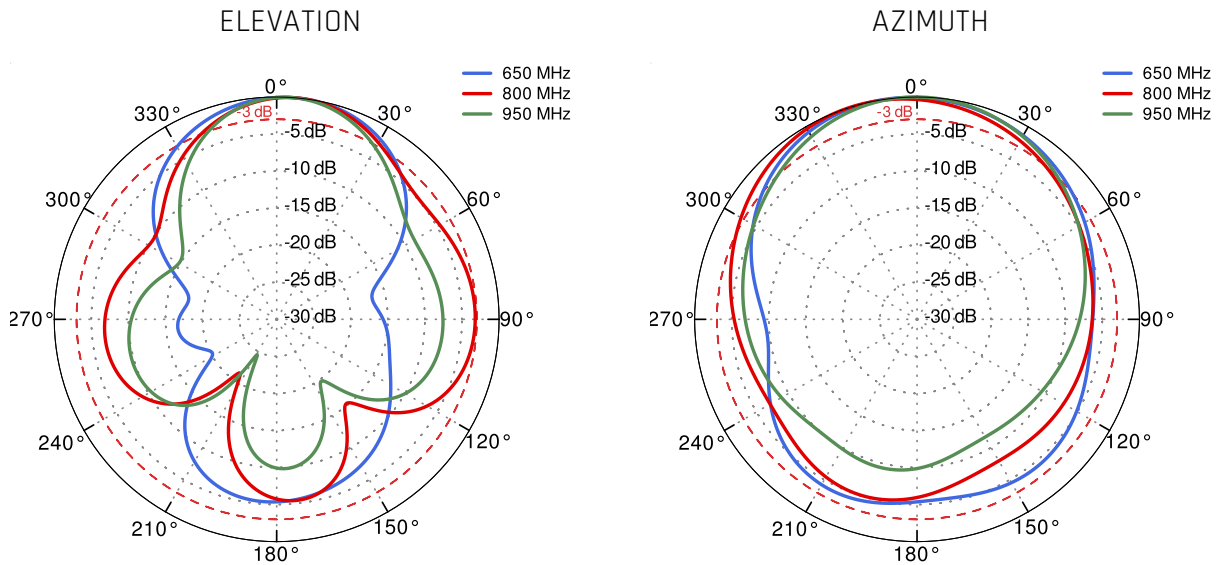
PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz



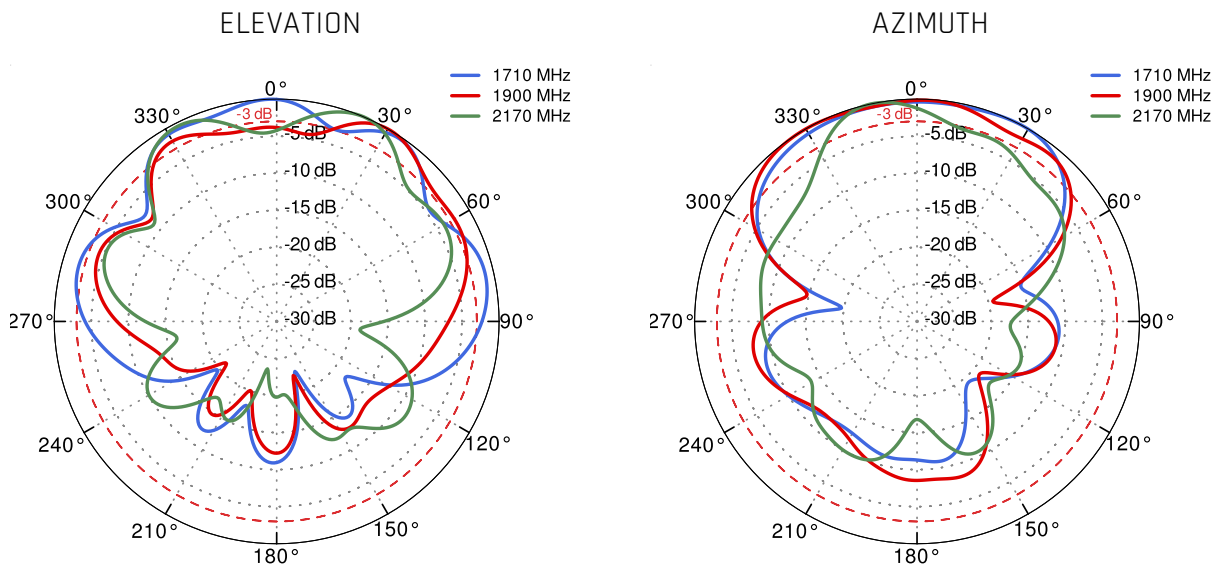
PORT 1&3 - 5G/LTE from 5.0GHz to 5.9GHz



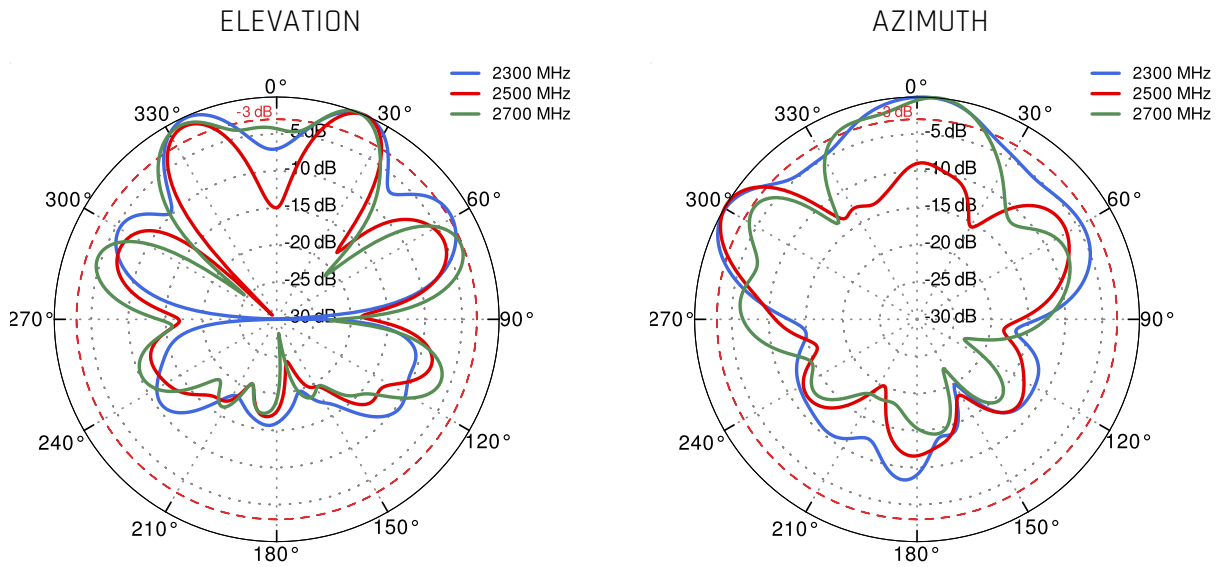
PORT 2&4 - 5G/LTE from 650MHz to 950MHz



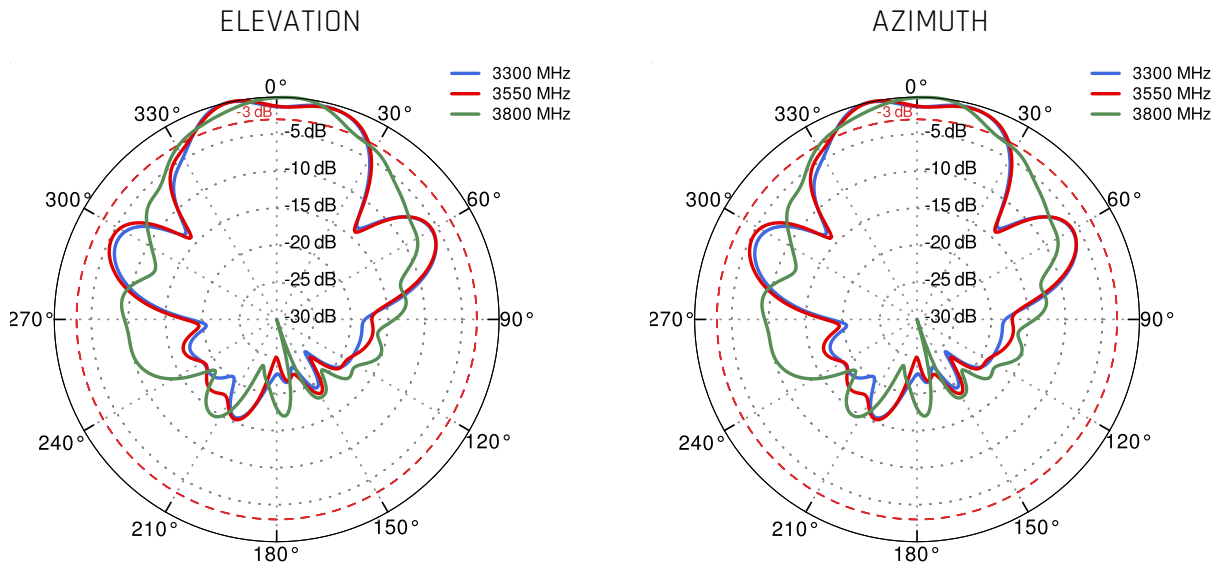
PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz



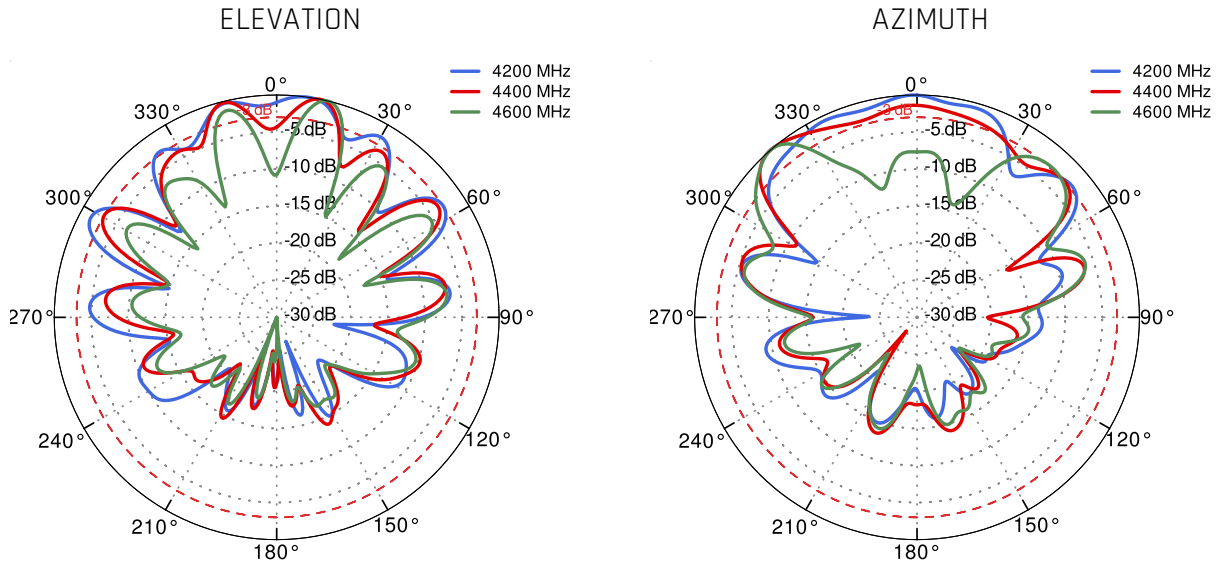
PORT 2&4 - 5G/LTE from 2.3GHz to 2.7GHz



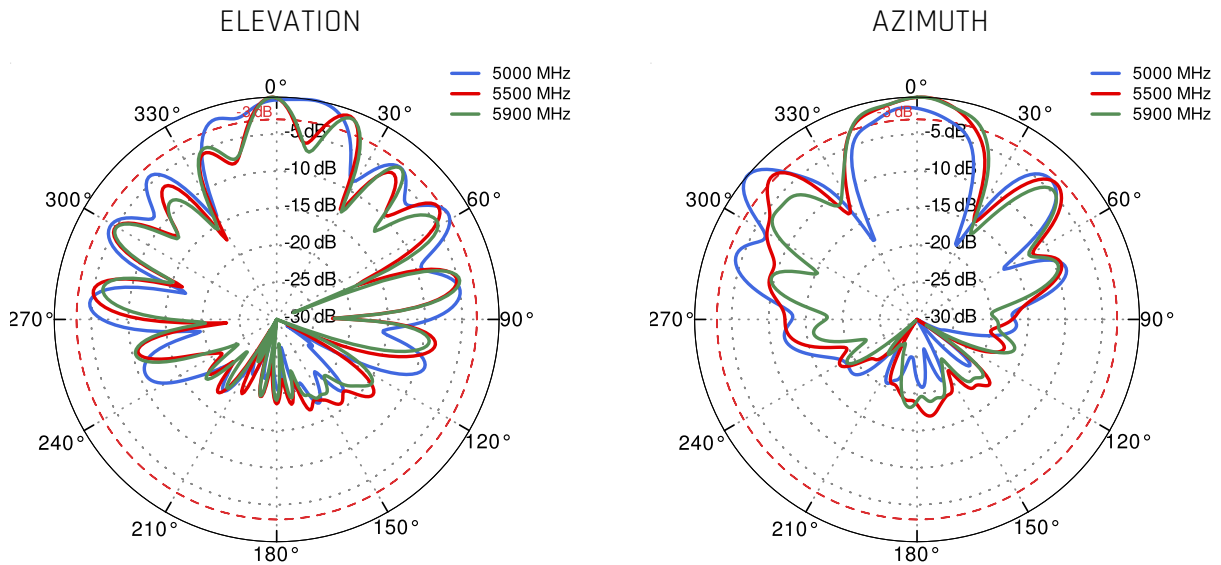
PORT 2&4 - 5G/LTE from 3.3GHz to 3.8GHz



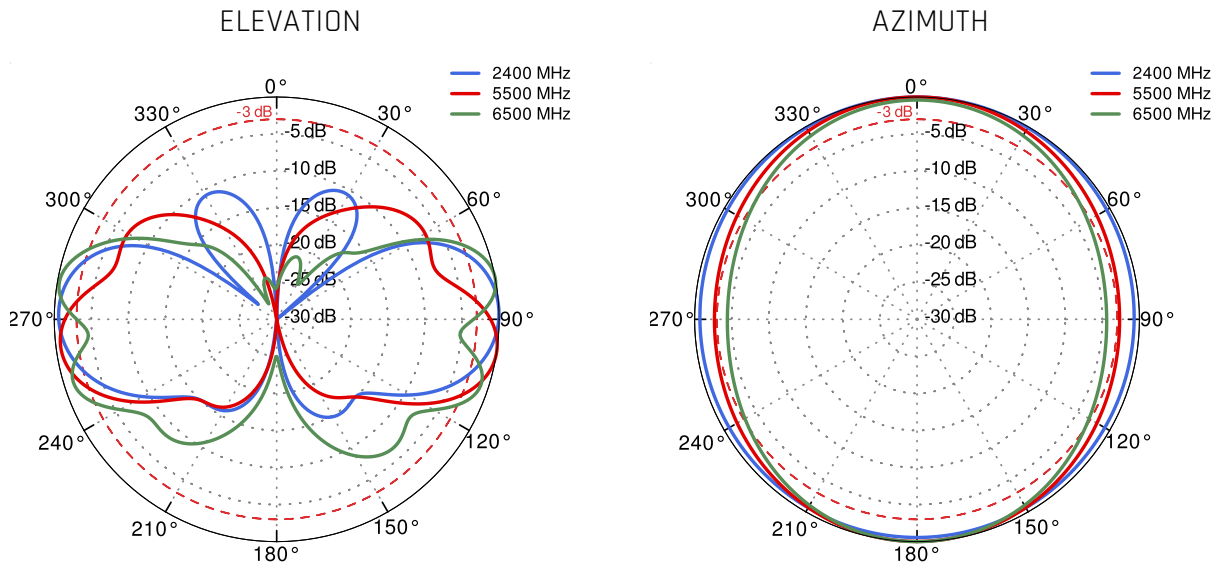
PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz



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



# Wi-Fi 2.4GHz and 5GHz and 6GHz



## DIMENSIONS

