

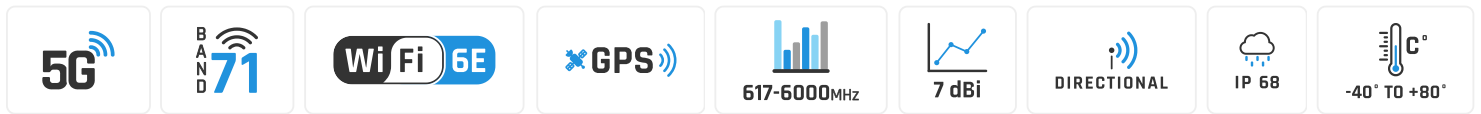
# QuMax for Teltonika RUTM56

**INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + 5G OMNI ANTENNA + WI-FI 6E OMNI ANTENNA + GPS + PLACE TO INSTALL TELTONIKA RUTM56 (ALL-IN-ONE)**

QuMax for RUTM56 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 directional 5G, omni 5G, Wi-Fi and GPS 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 RUTM56 inside the antenna housing gives you complete outdoor solution with multiple use scenarios such as transportation public, energy, mining IoT and more.

Wi-Fi 6E support!



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



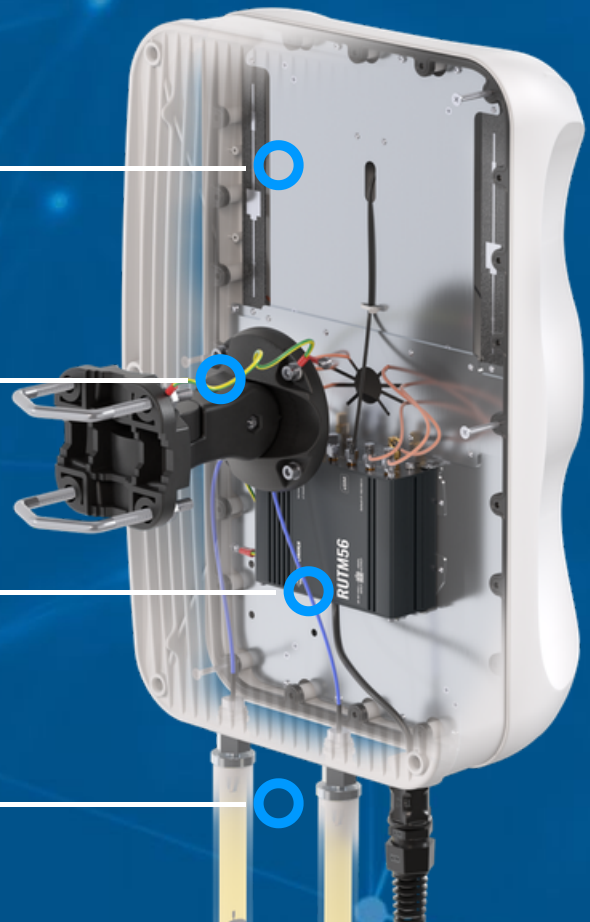
ANTENNA **PERFECTLY MATCHED** WITH THE ROUTER



**PASSIVE POE SUPPORT**



MADE IN **EUROPE**



## DIRECTIONAL 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

## **OMNI 5G / LTE ANTENNA SPECIFICATION**

<b>FREQUENCY</b>	617 - 960 MHz 1.7 - 2.7 GHz 3.3 - 4.7 GHz 5.2 - 6.0 GHz
<b>GAIN</b>	617 - 960 MHz : 3 dBi 1.7 - 2.2 GHz : 4 dBi 3.3 - 4.7 GHz : 4.5 dBi 5.2 - 6.0 GHz : 2.5dBi
<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, 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, n47, n48, n53, n65, n66, n67, n71, n77, n78, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256
<b>VSWR</b>	<1.80, max <2.00
<b>BEAMWIDTH</b>	360°/25° ±5°
<b>POLARIZATION</b>	Vertical
<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**

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

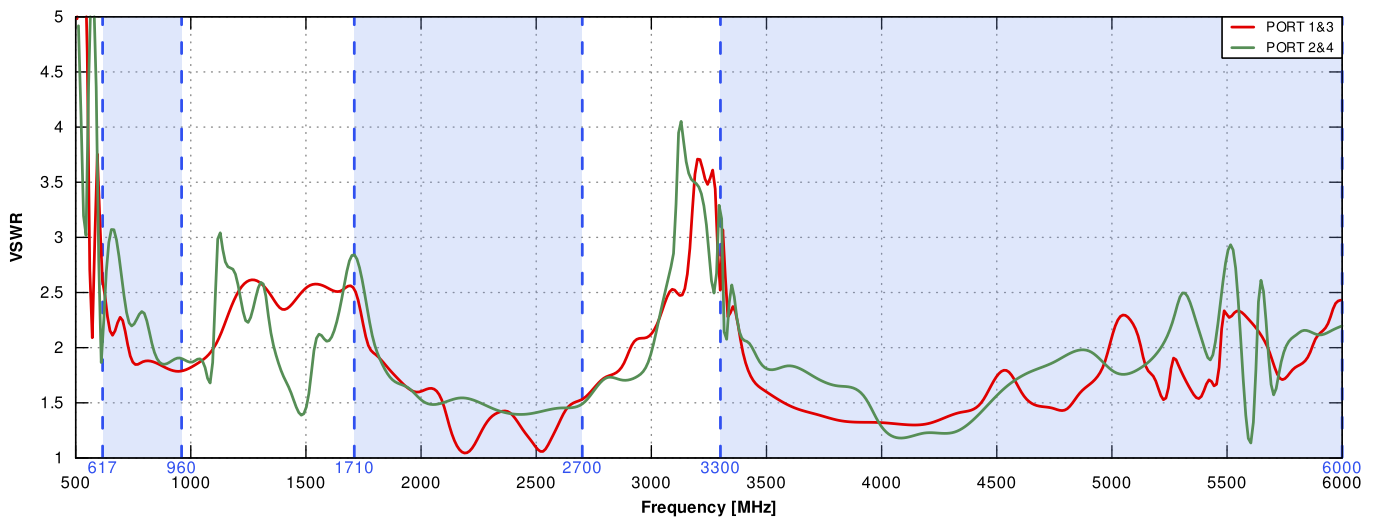
**5G**

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			

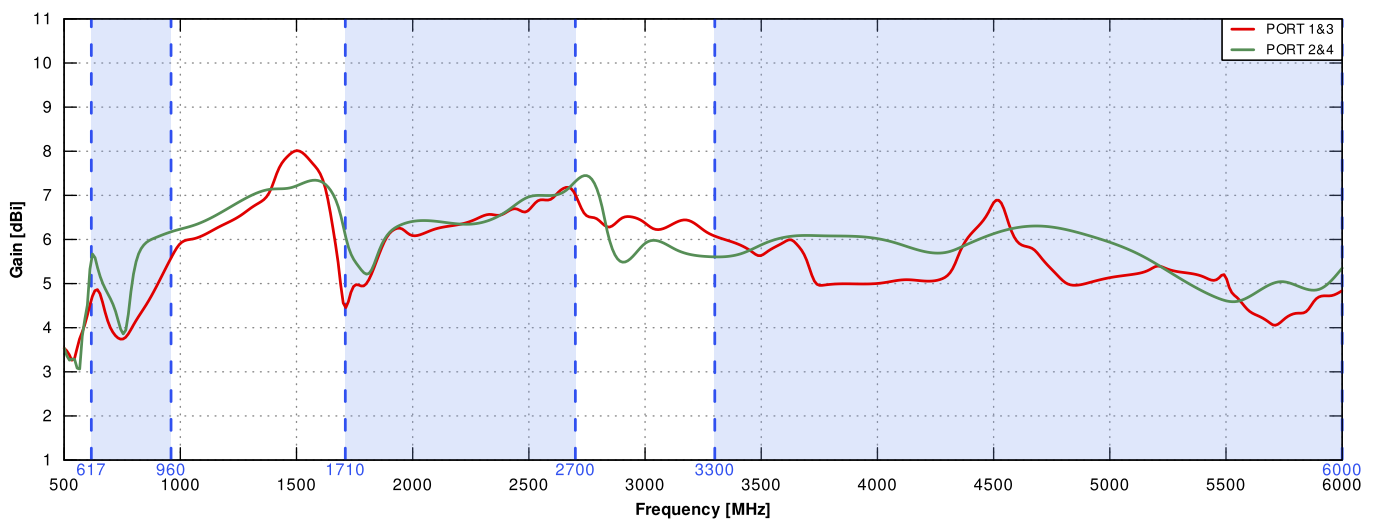
617 MHz 6000 MHz

# PLOTS

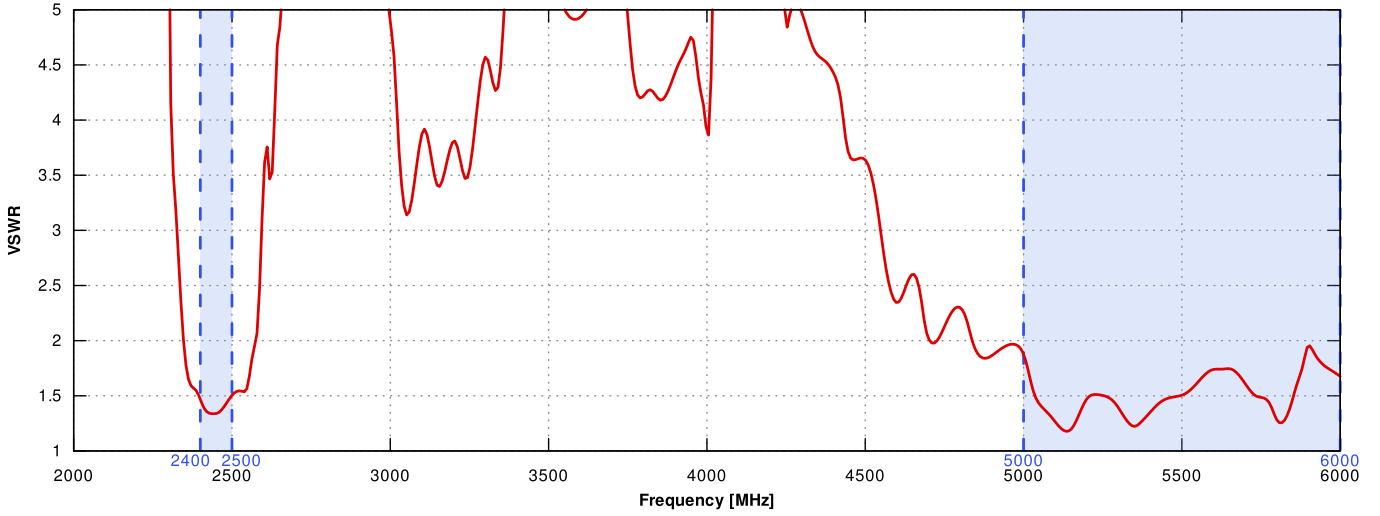
VSWR for directional 5G/LTE antenna



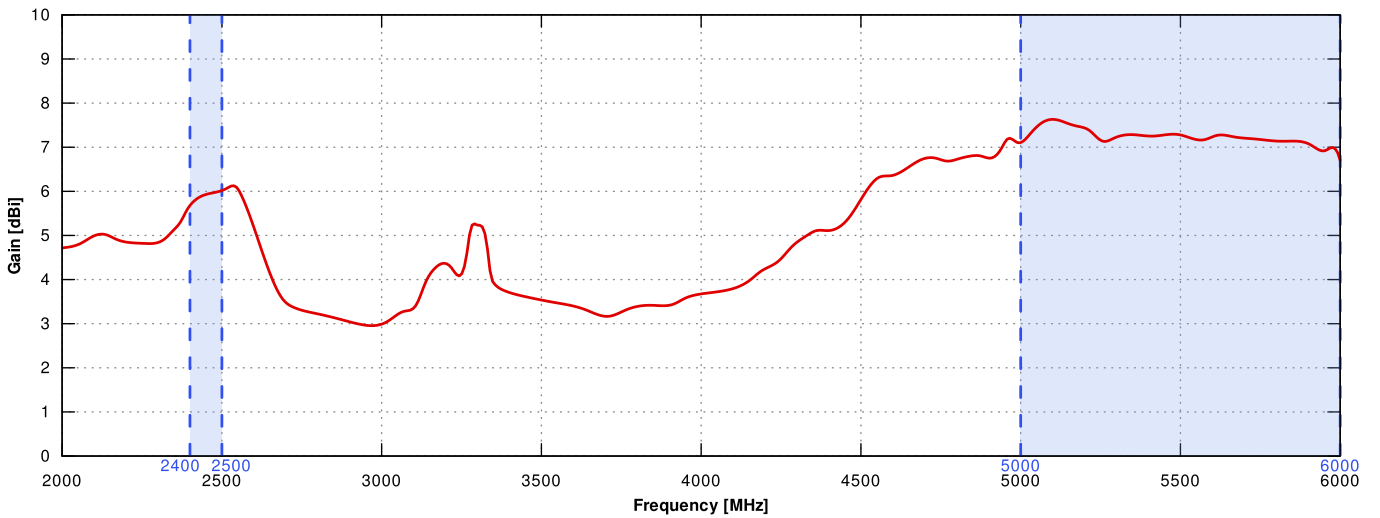
Gain for directional 5G/LTE antenna



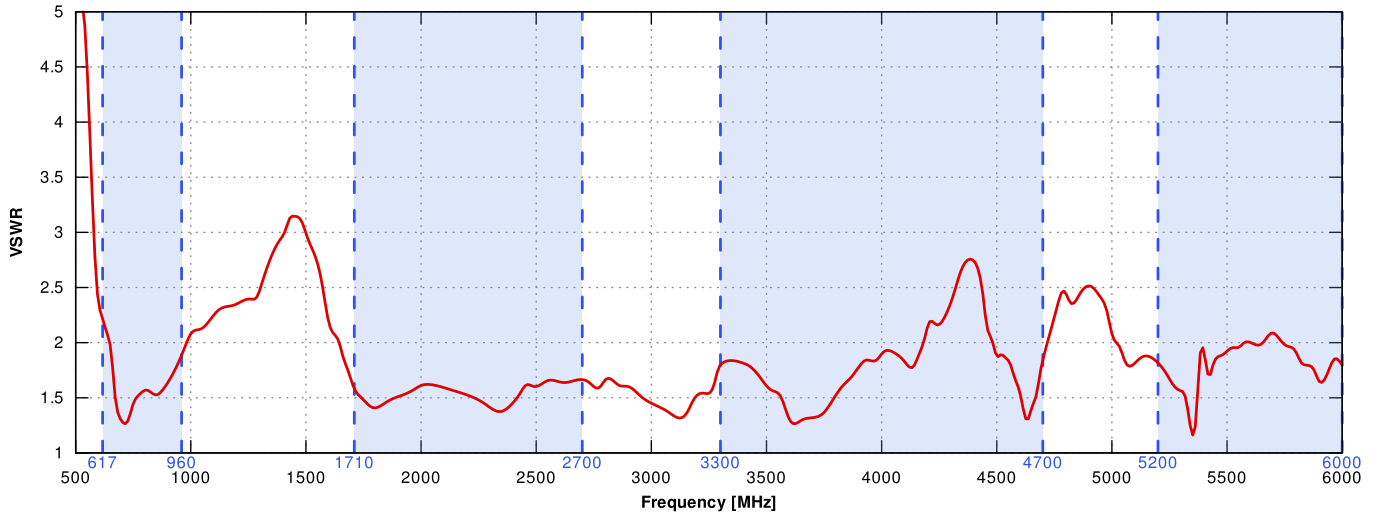
### VSWR for Wi-Fi antenna



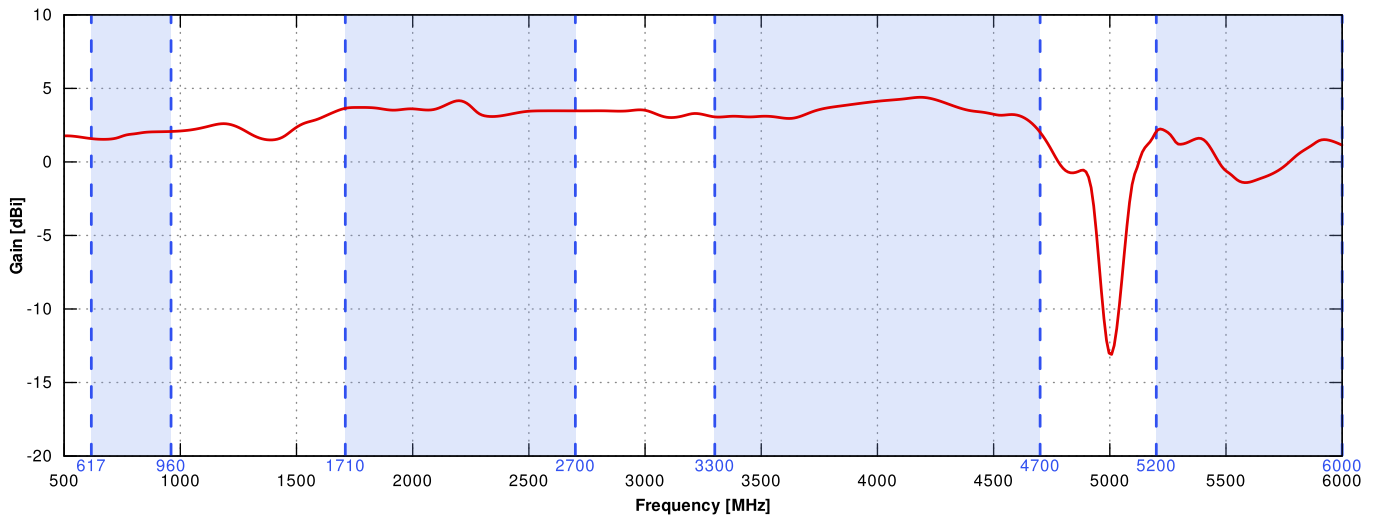
### Gain for Wi-Fi antenna



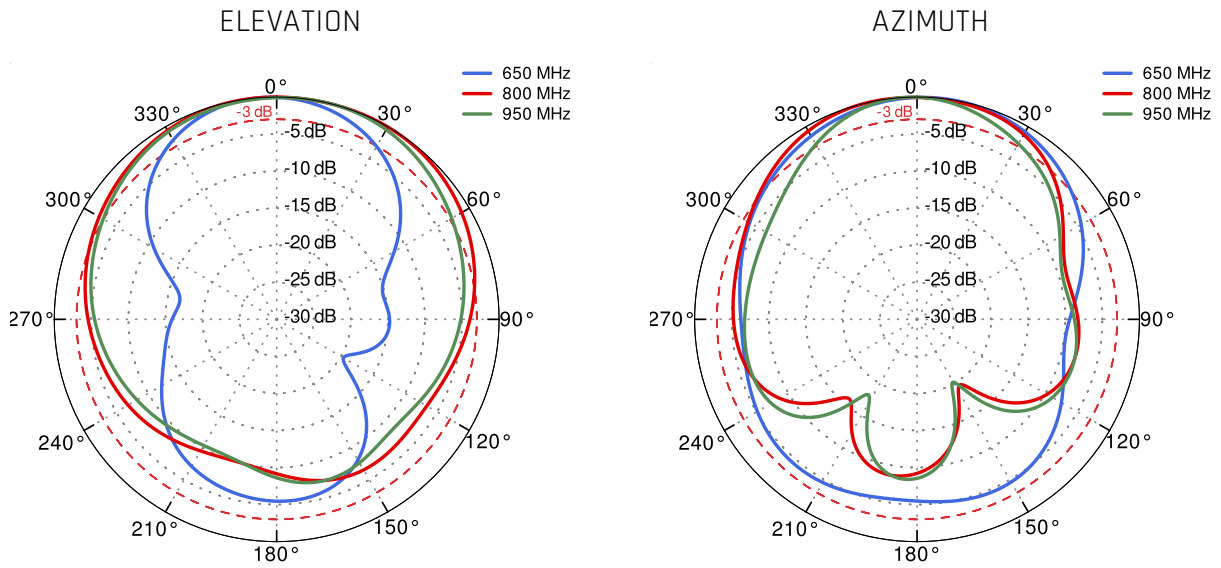
VSWR for omni 5G/LTE antenna



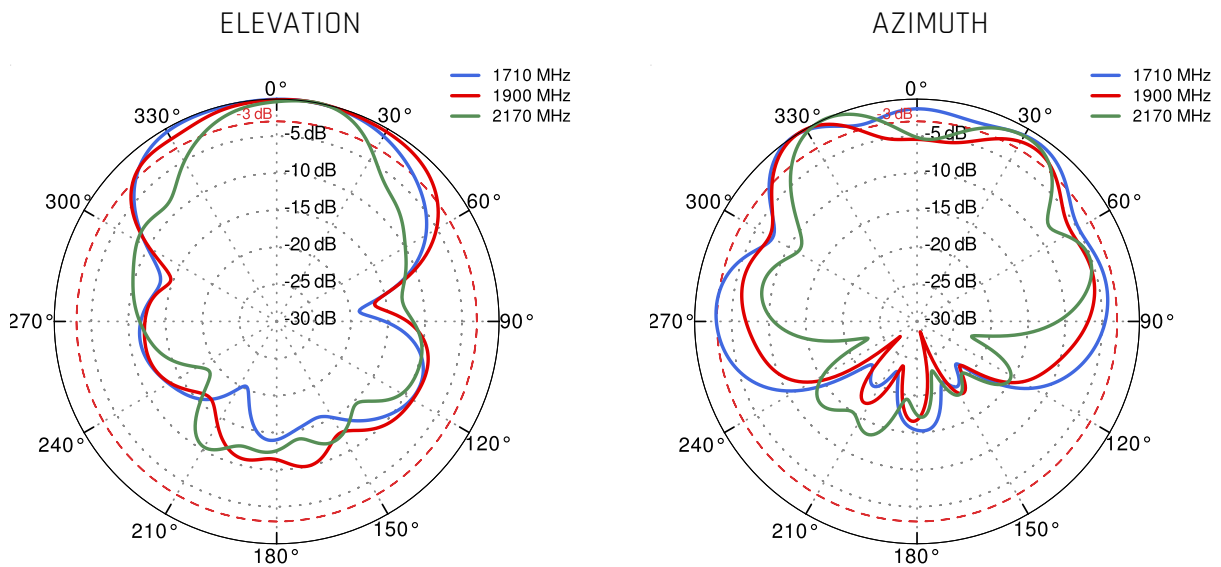
Gain for omni 5G/LTE antenna



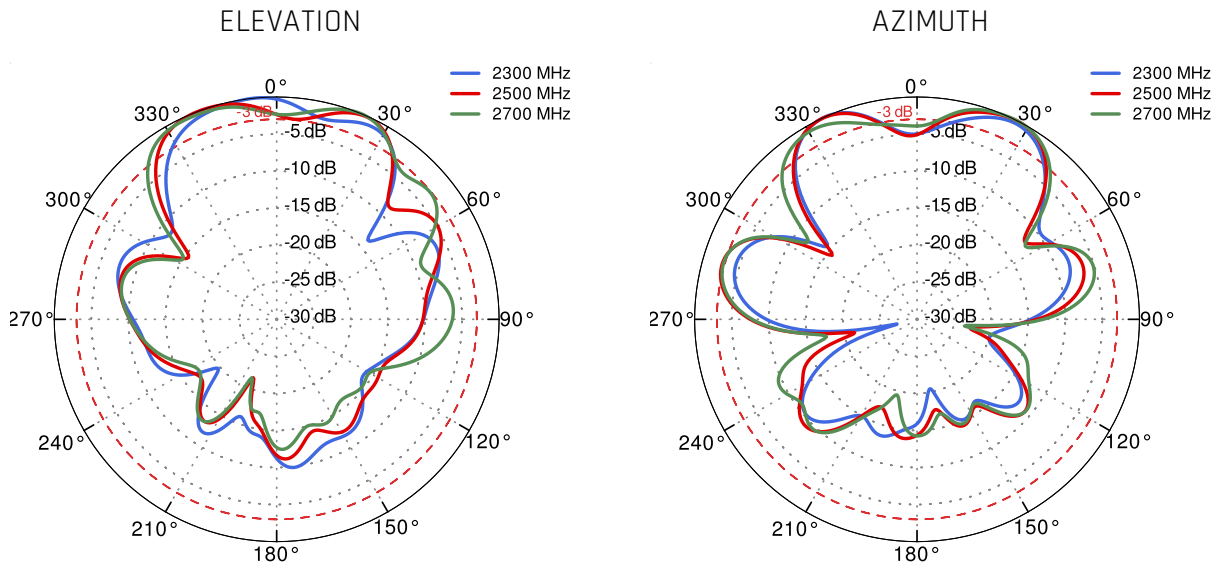
PORT 1&3 - directional 5G/LTE from 650MHz to 950MHz



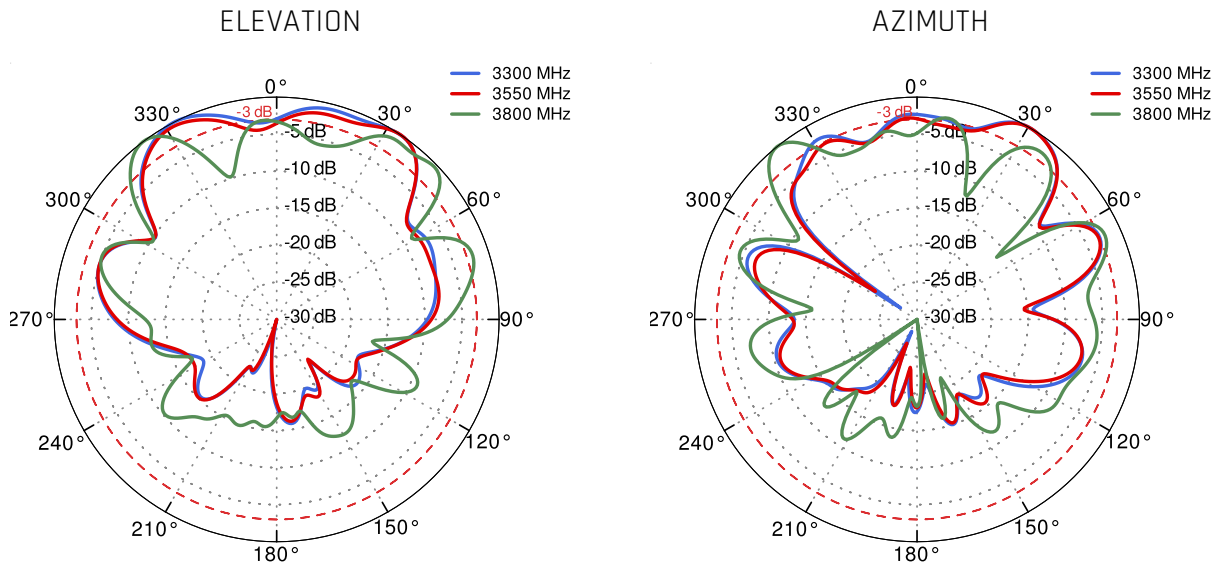
PORT 1&3 - directional 5G/LTE from 1.71GHz to 2.17GHz



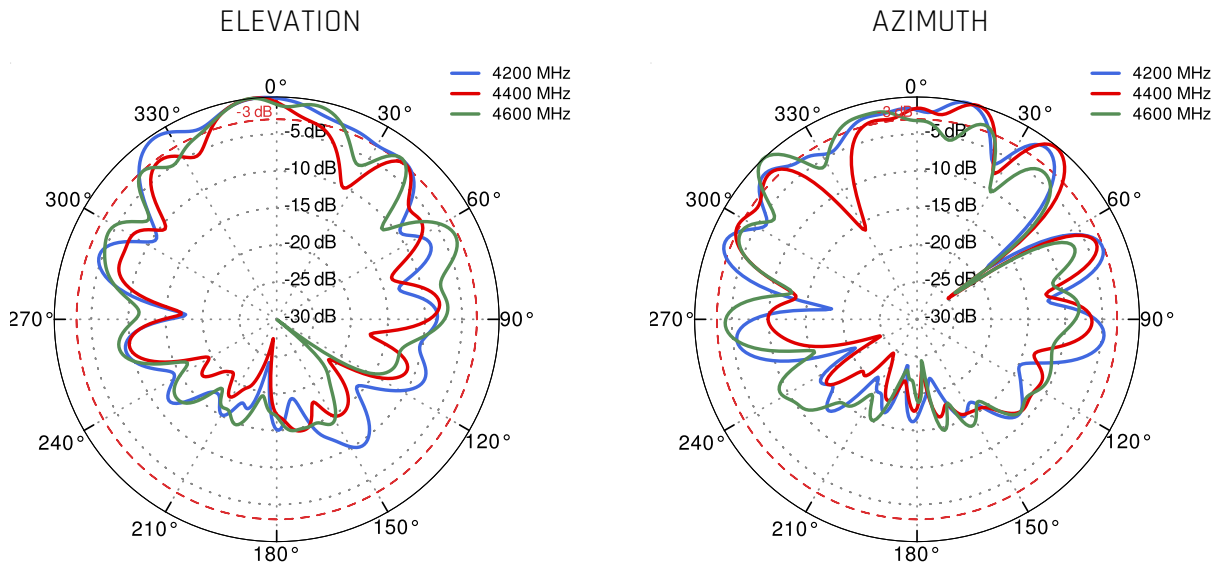
PORT 1&3 - directional 5G/LTE from 2.3GHz to 2.7GHz



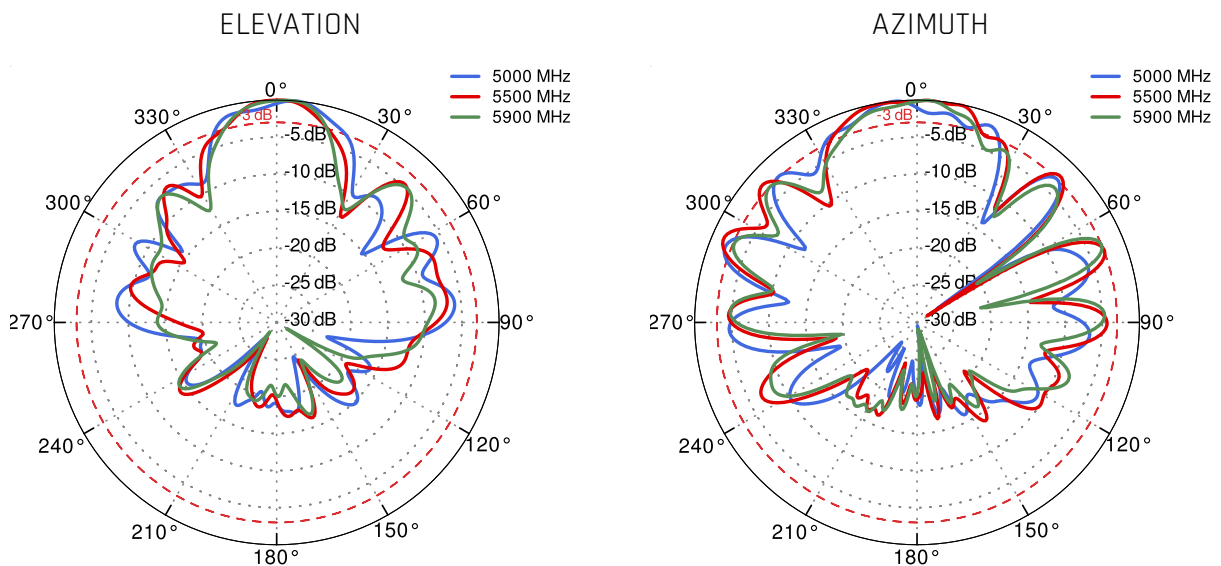
PORT 1&3 - directional 5G/LTE from 3.3GHz to 3.8GHz



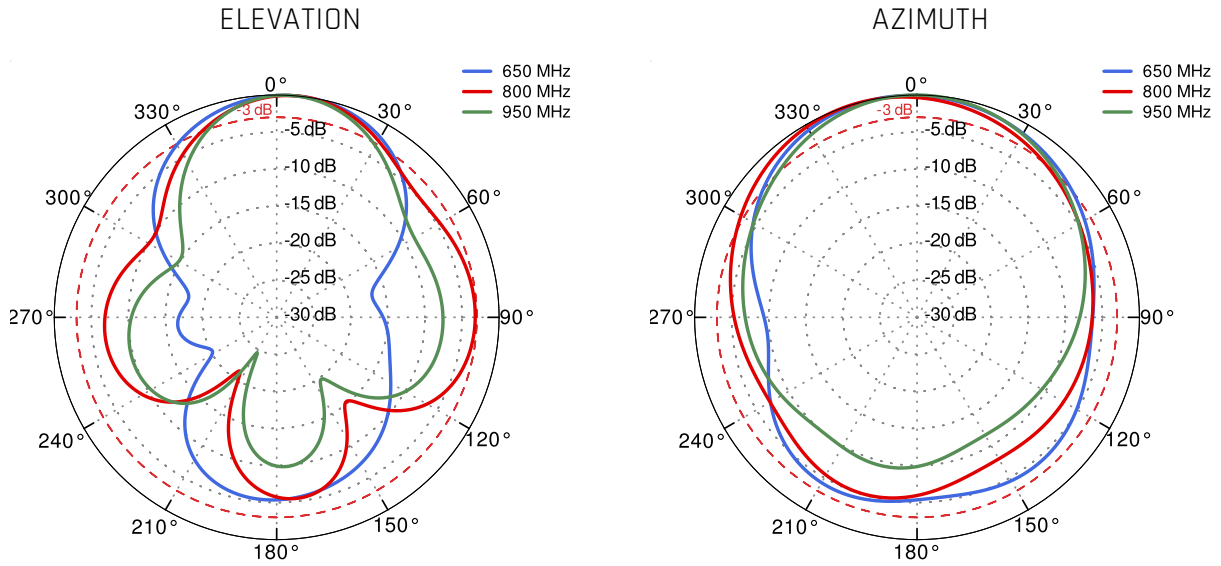
PORT 1&3 - directional 5G/LTE from 4.2GHz to 4.6GHz



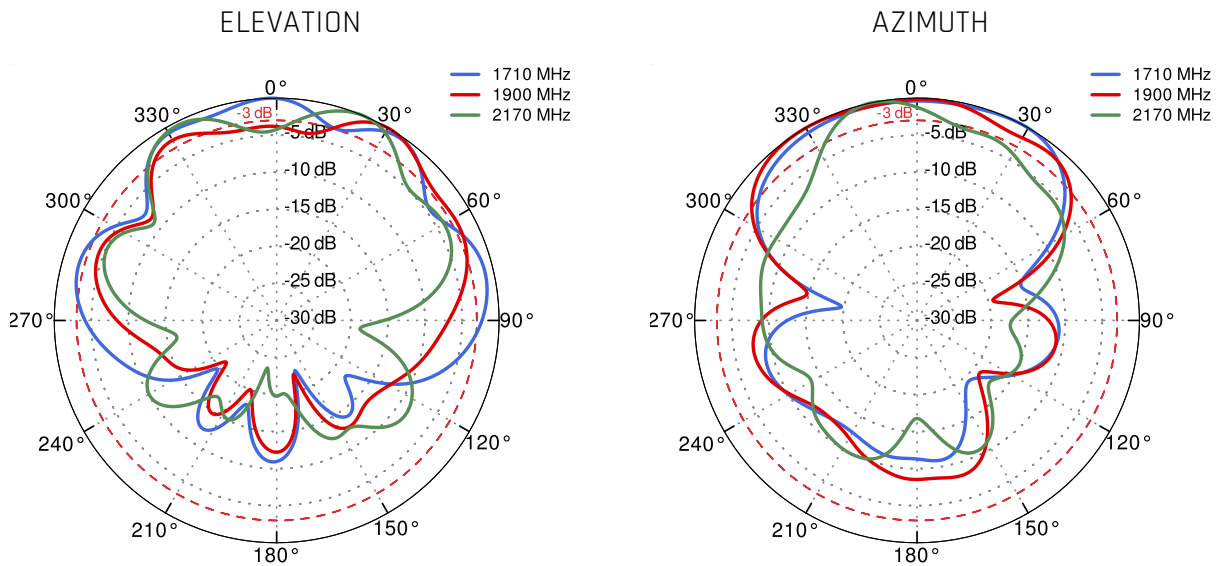
PORT 1&3 - directional 5G/LTE from 5.0GHz to 5.9GHz



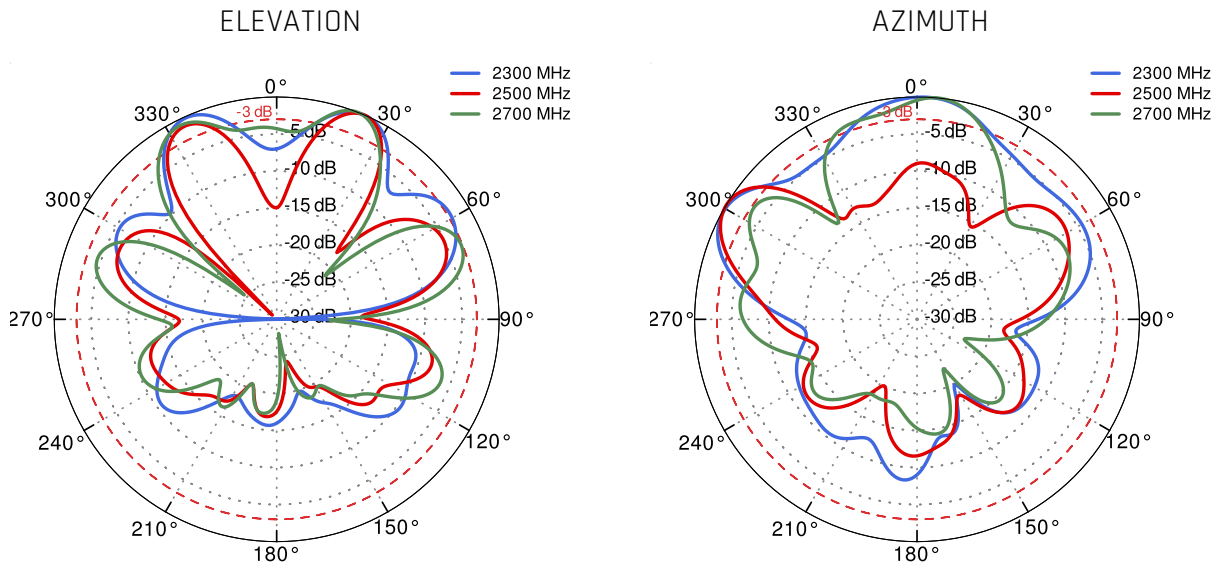
PORT 2&4 - directional 5G/LTE from 650MHz to 950MHz



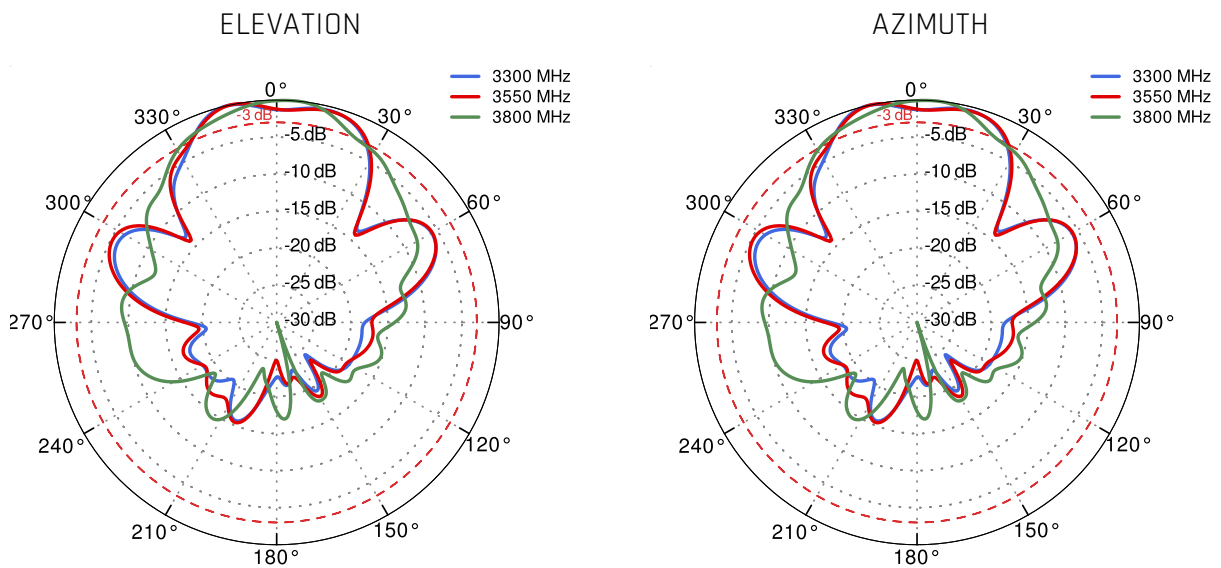
PORT 2&4 - directional 5G/LTE from 1.71GHz to 2.17GHz



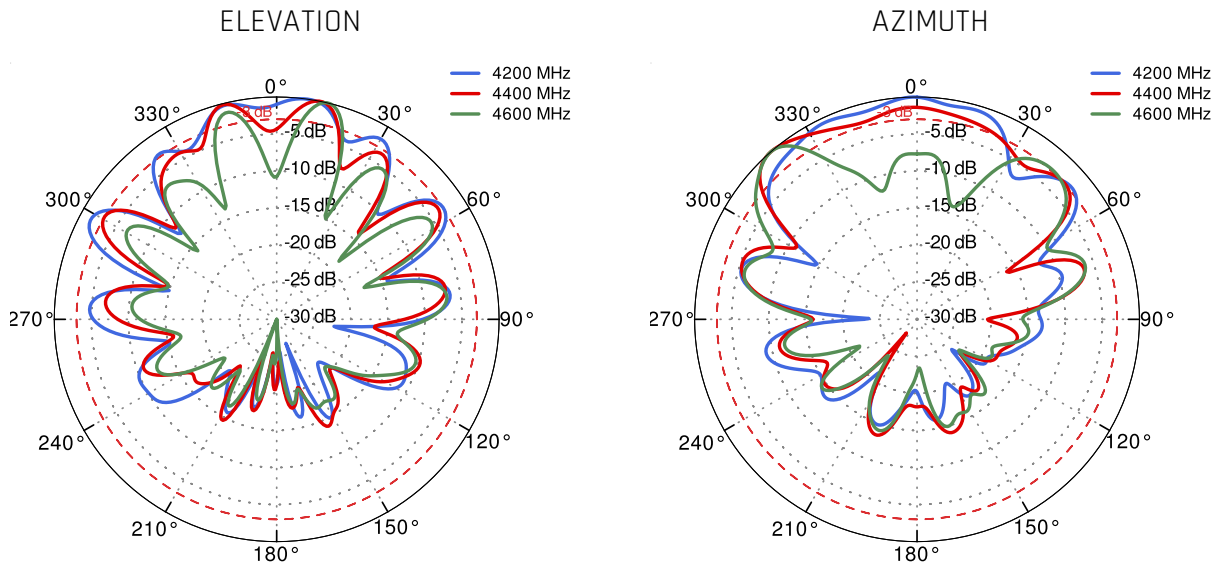
PORT 2&4 - directional 5G/LTE from 2.3GHz to 2.7GHz



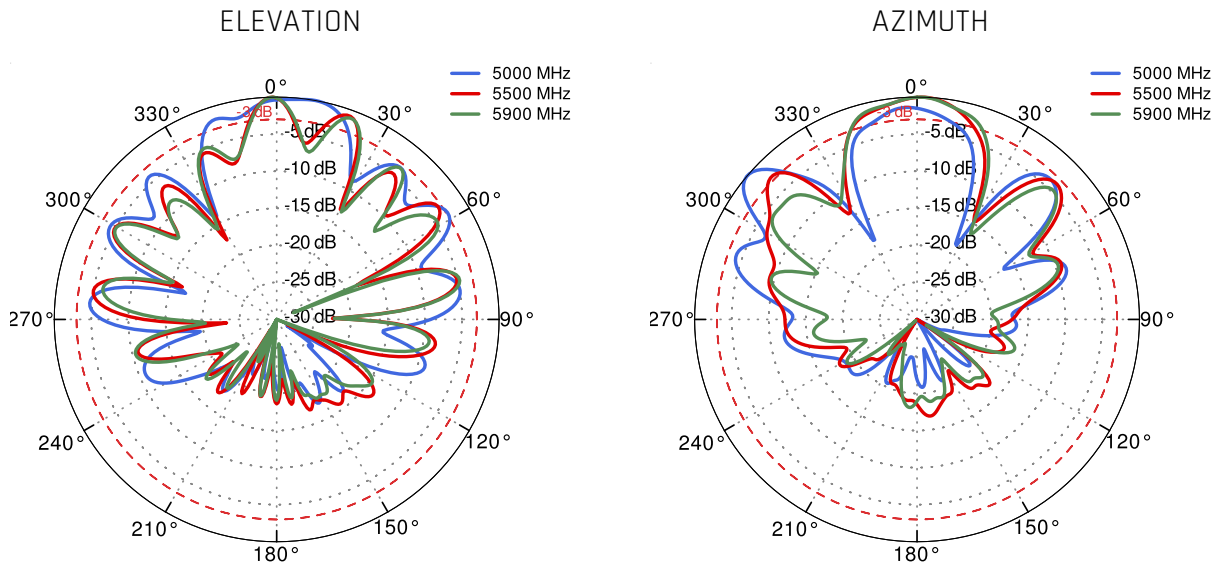
PORT 2&4 - directional 5G/LTE from 3.3GHz to 3.8GHz



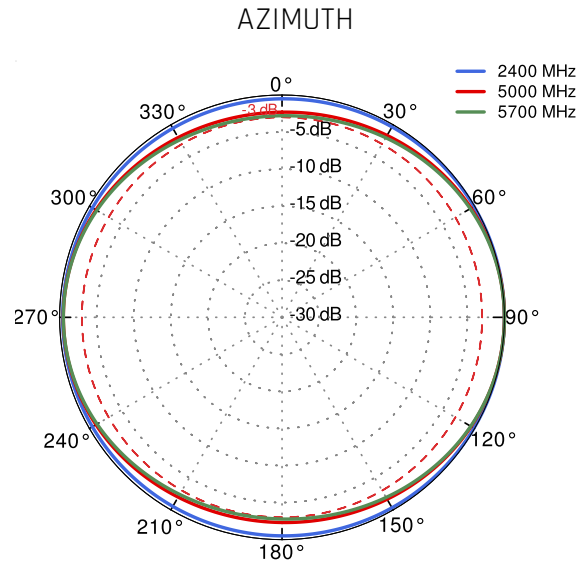
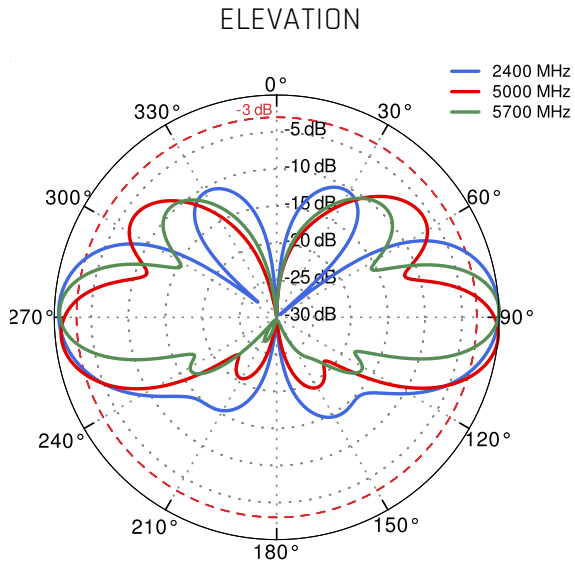
PORT 2 - directional 5G/LTE from 4.2GHz to 4.6GHz



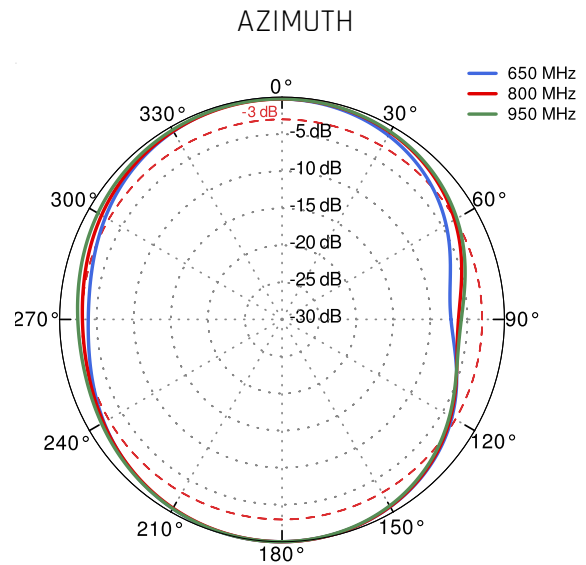
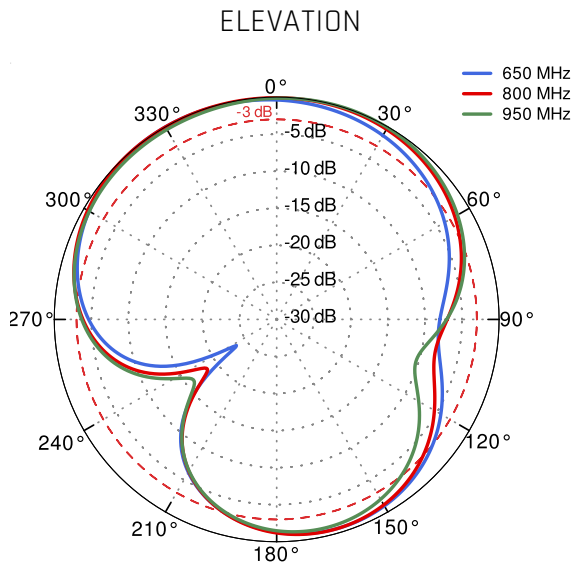
PORT 2 - directional 5G/LTE from 5.0GHz to 5.9GHz



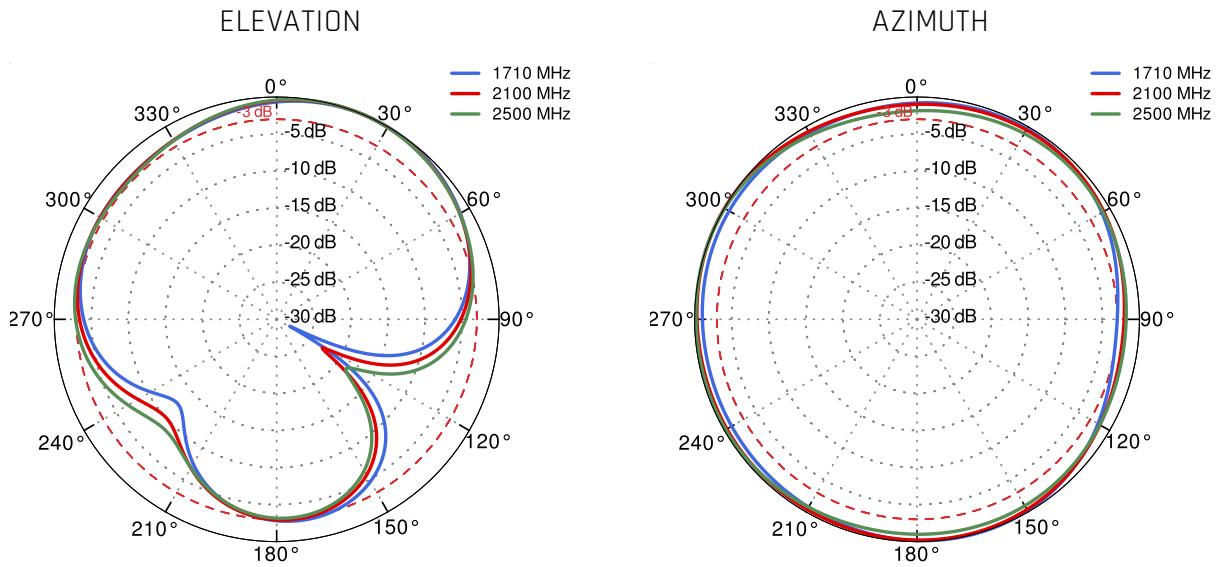
Wi-Fi 2.4GHz and 5GHz



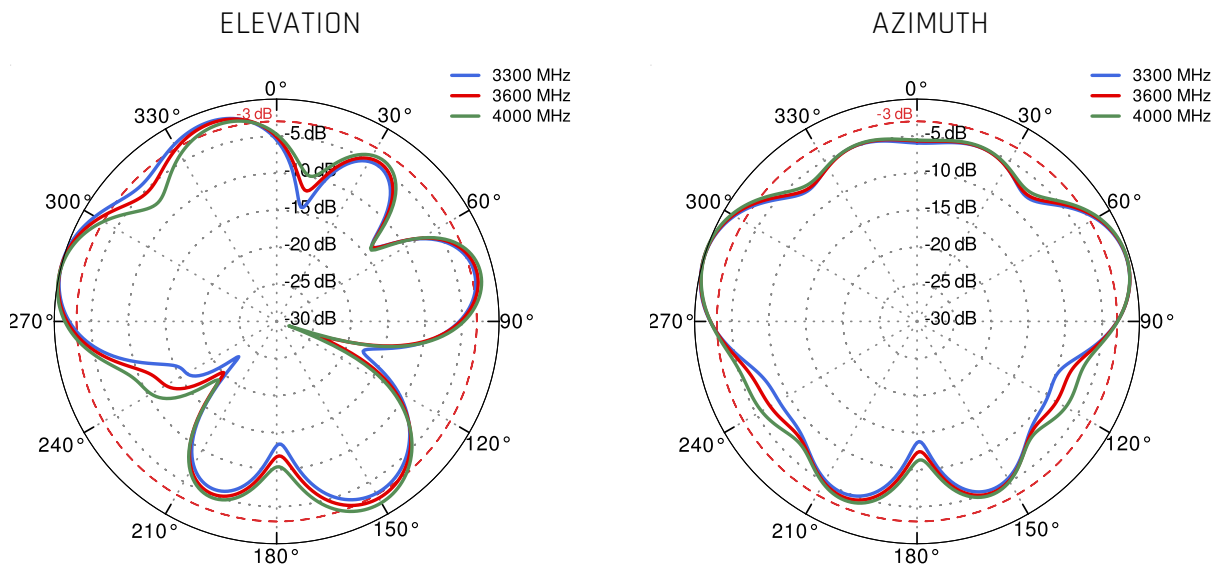
omni 5G/LTE from 650MHz to 950MHz



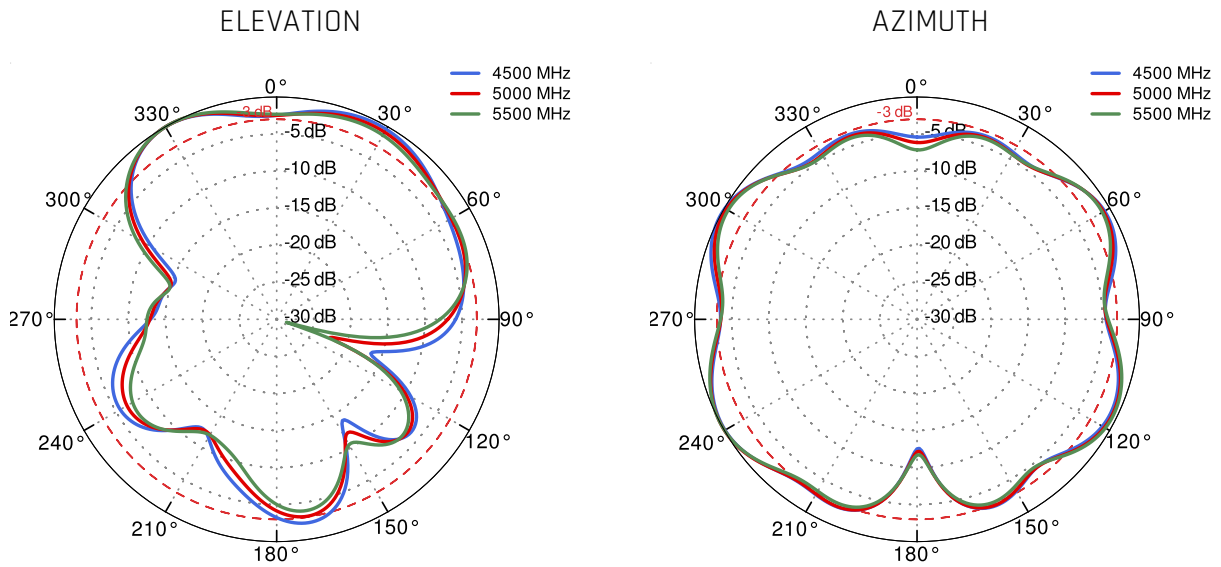
omni 5G/LTE from 1.71GHz to 2.5GHz



omni 5G/LTE from 3.3GHz to 4.2GHz



omni 5G/LTE from 4.6GHz to 5.5GHz



## **DIMENSIONS**

