

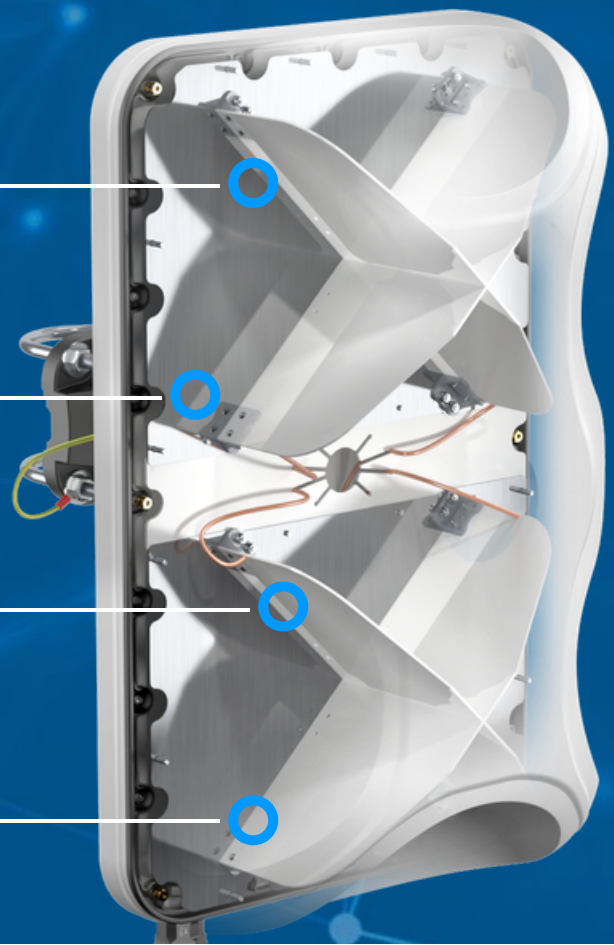
# QuMax for Teltonika TRB500

## INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + PoE SPLITTER + PLACE TO INSTALL TELTONIKA RUTX 50 (ALL-IN-ONE)

QuMax for TRB500 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 antennas and PoR splitter integrated in IP67 enclosure. It offers 7.5 dBi gain and wide beamwidth, which makes it suitable for use in both urban and rural environments.

The set contains a PoE splitter, allowing you to split data and power from a single Ethernet cable and maintain gigabit transfer speeds while protecting the LAN port from damage caused by overvoltage, short circuit or improper connection.

Combining QuMax with TRB500 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

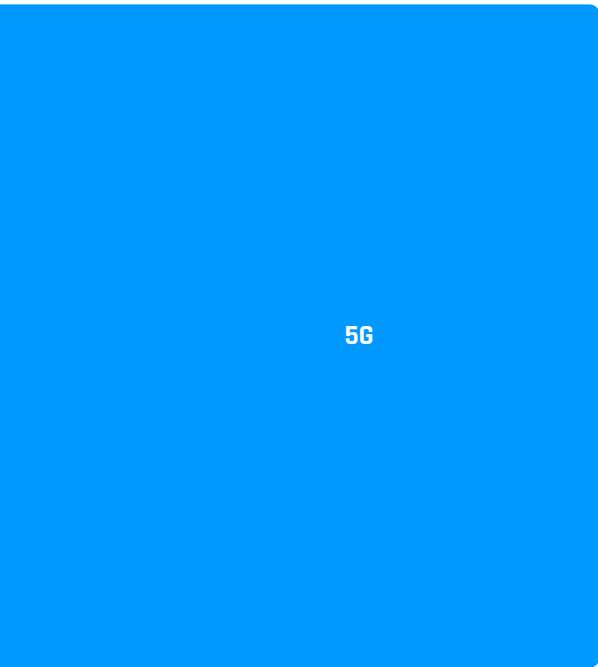
<b>FREQUENCY</b>	0.617 - 0.96 GHz 1.7 - 2.7 GHz 3.3 - 4.6 GHz 4.7 - 6.0 GHz
<b>GAIN</b>	0.617 - 0.96 GHz: 6 dBi 1.7 - 2.7 GHz: 7 dBi 3.3 - 4.6 GHz: 7 dBi 4.7 - 6.0 GHz: 5.5 dBi
<b>SUPPORTED LTE BANDS</b>	1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 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, n256
<b>VSWR</b>	<2.00, max <3.00
<b>BEAMWIDTH</b>	80°/80° ±15°
<b>POLARIZATION</b>	X (±45degrees)
<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 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

## FREQUENCY BANDS

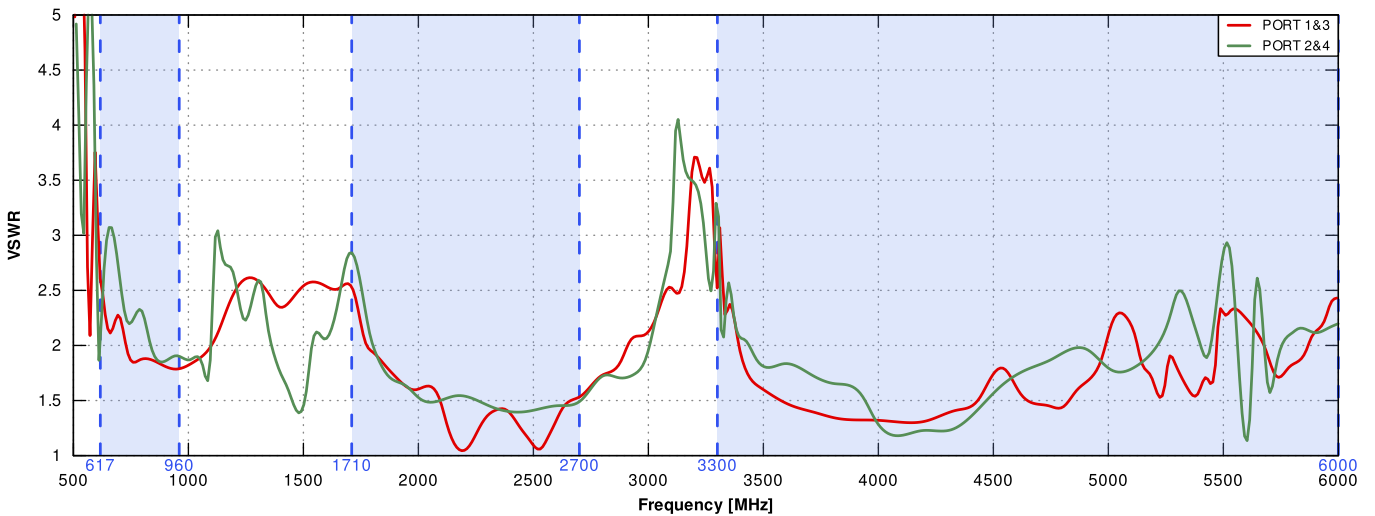
<b>LTE / 4G</b>	1	2	3	4	5	7	8	617 MHz	6000M Hz
	9	10	12	13	14	17	18		
	19	20	22	25	26	27	28		
	29	30	33	34	35	36	37		
	38	39	40	41	42	43	44		
	46	47	48	49	52	53	65		
	66	67	68	69	71	85	103		
	106								



n1	n2	n3	n5	n7	n8	n12		
n13	n14	n18	n20	n25	n26	n28		
n29	n30	n34	n38	n39	n40	n41		
617 MHz	n46	n47	n48	n53	n65	n66	n67	6000 MHz
n71	n77	n78	n80	n81	n82	n83		
n84	n85	n86	n89	n90	n95	n97		
n98	n100	n101	n256					

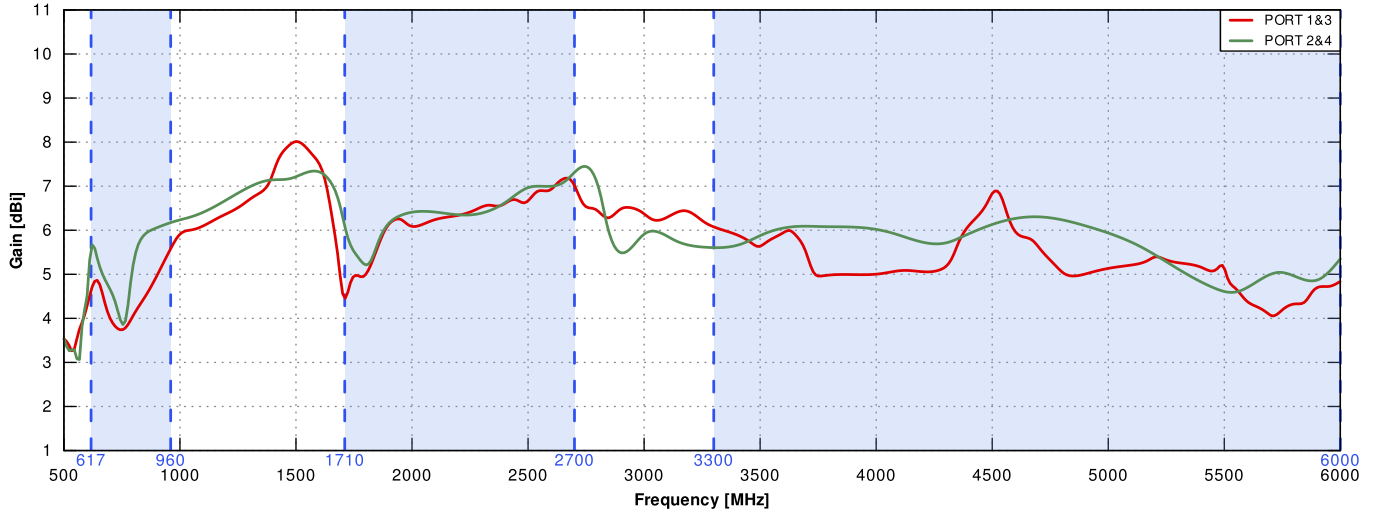
## PLOTS

VSWR for 5G/LTE antenna

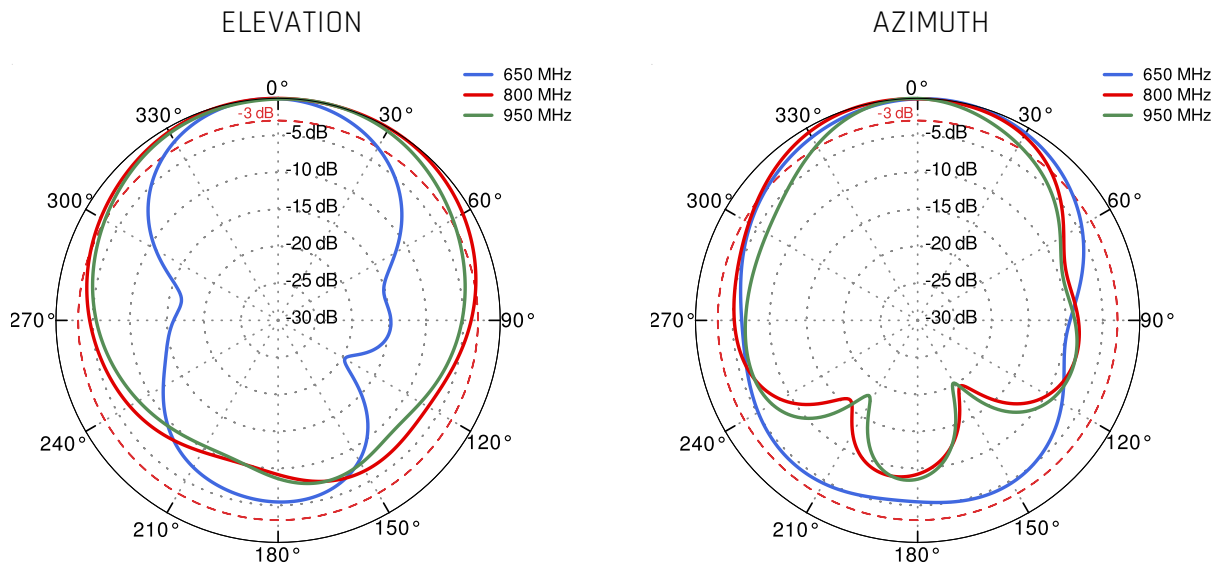




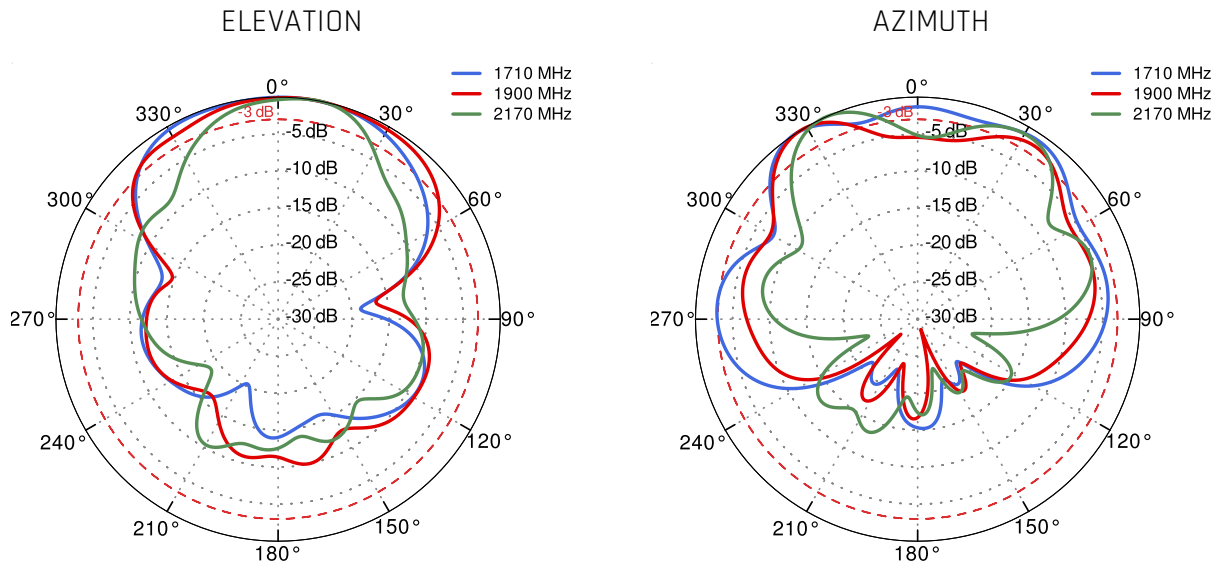
### Gain for 5G/LTE antenna



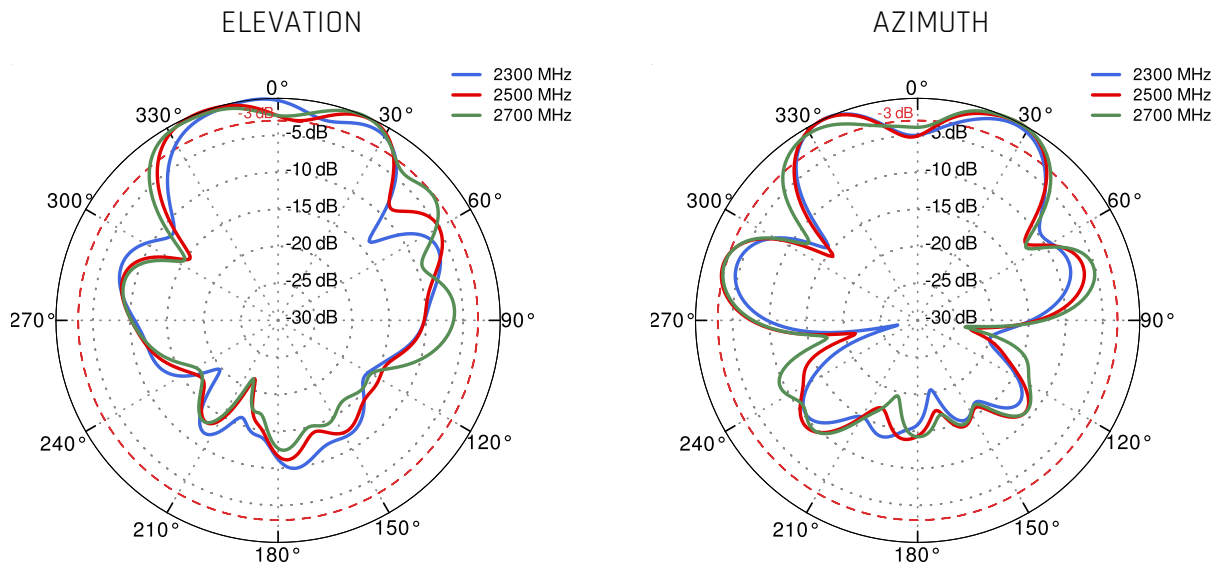
### PORT 1&3 - 5G/LTE from 650MHz to 950MHz



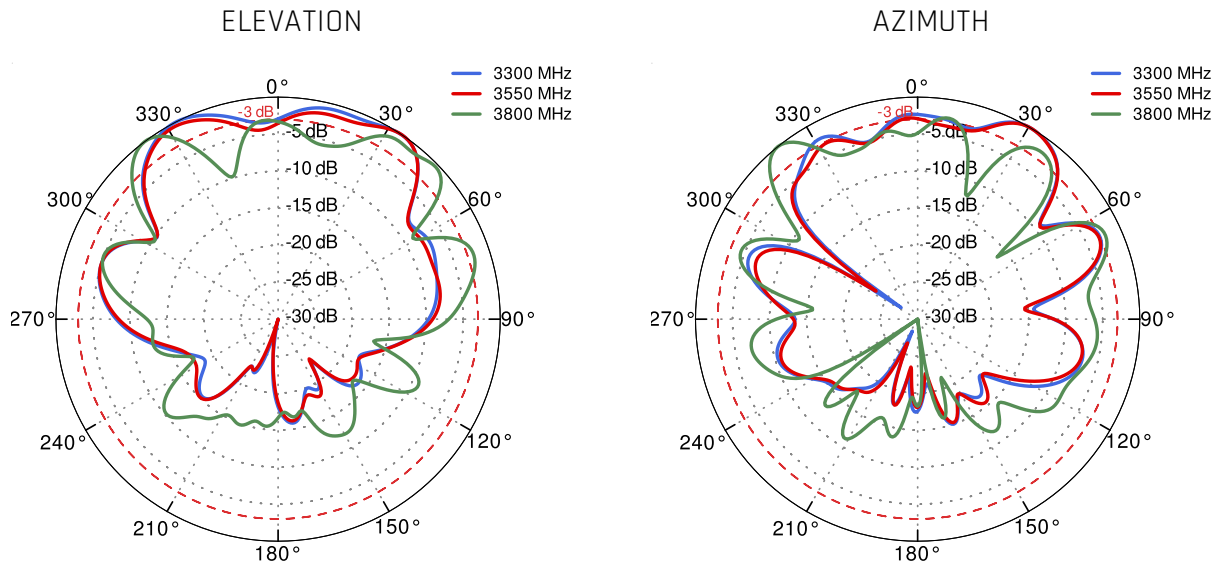
PORT 1&3 - 5G/LTE from 1.71GHz to 2.17GHz



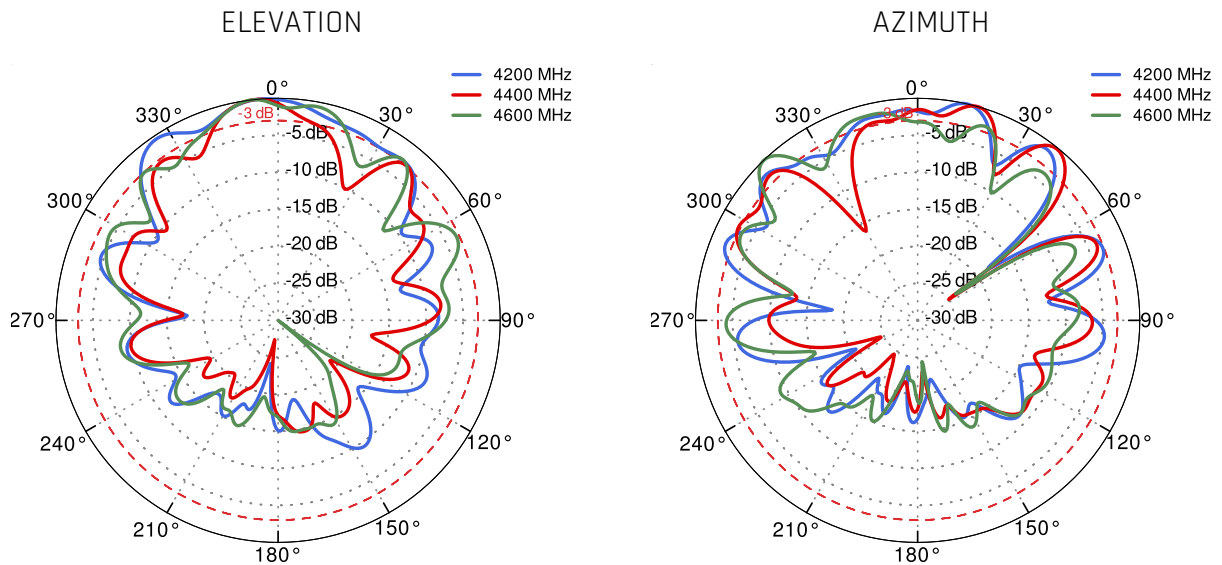
PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz



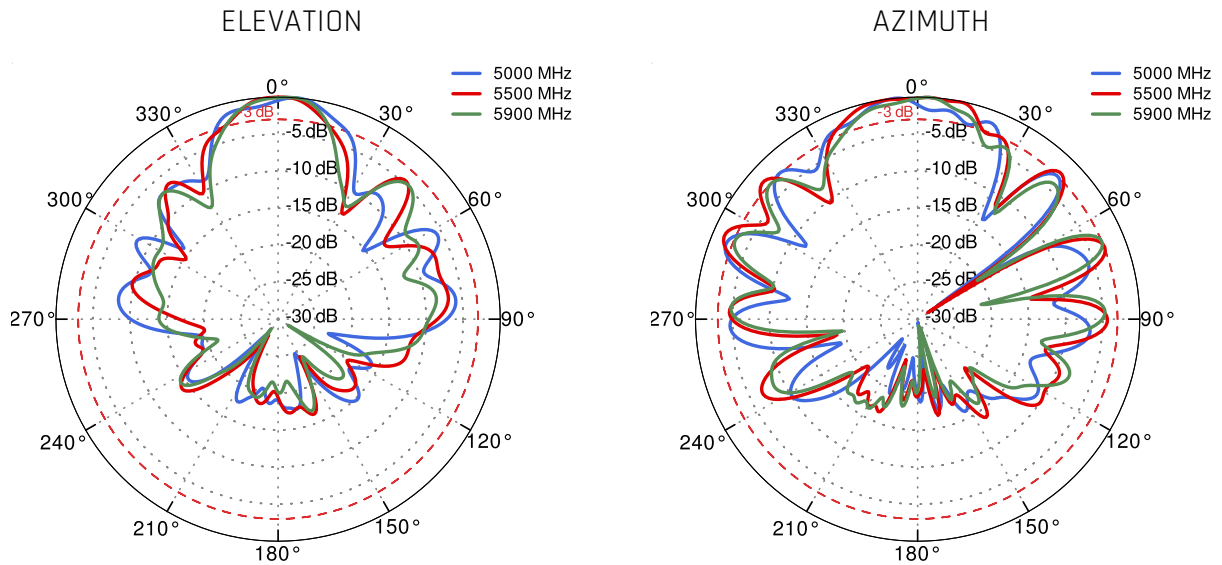
PORT 1&3 - 5G/LTE from 3.3GHz to 3.8GHz



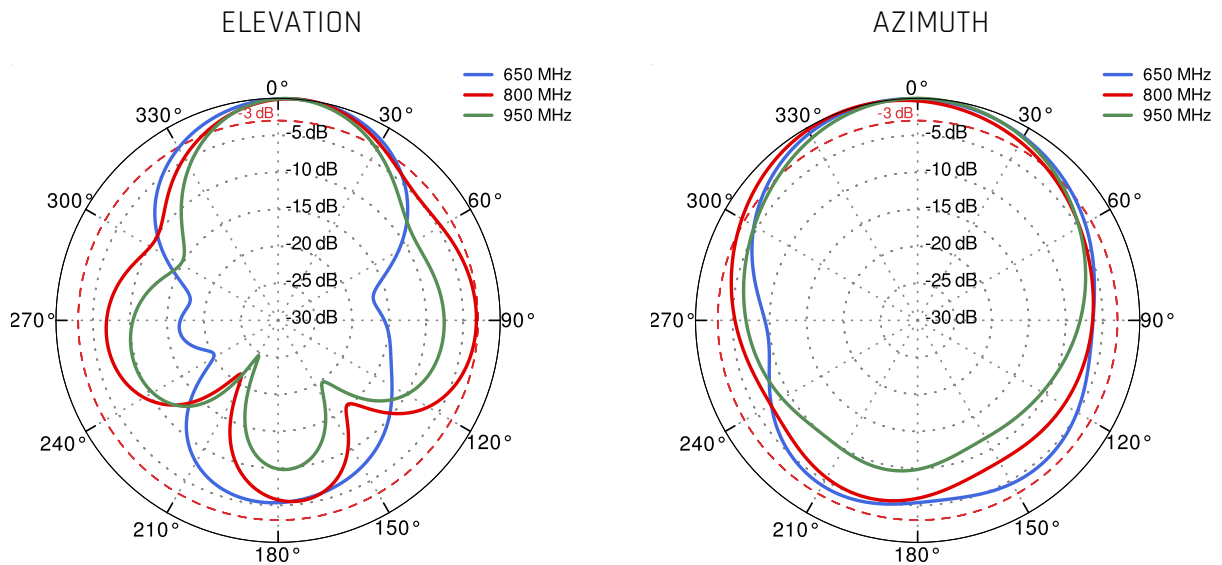
PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz

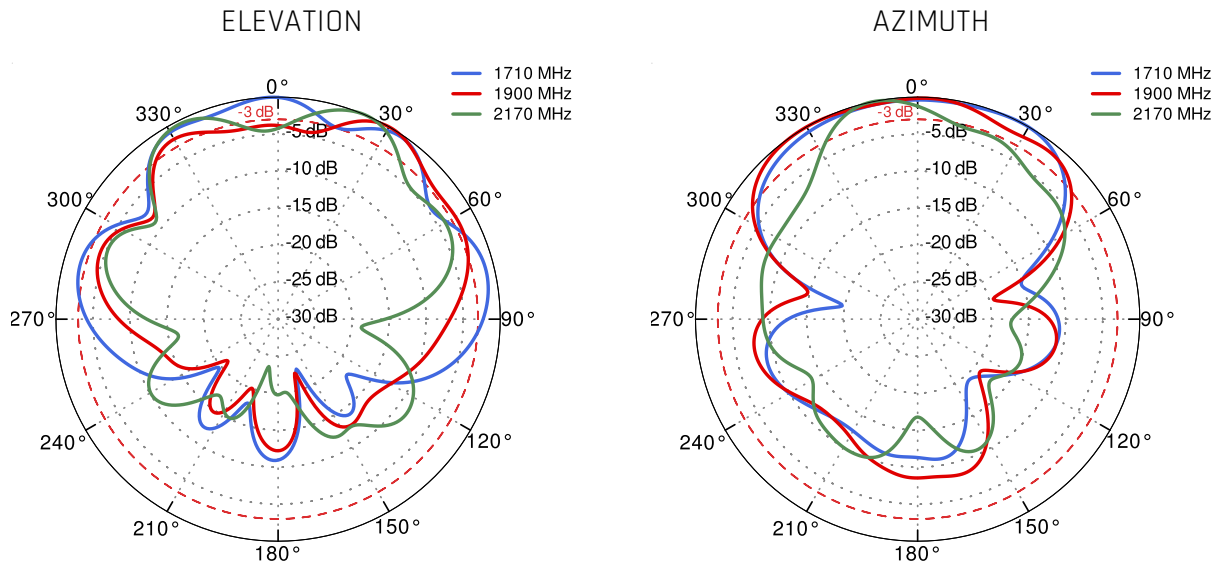
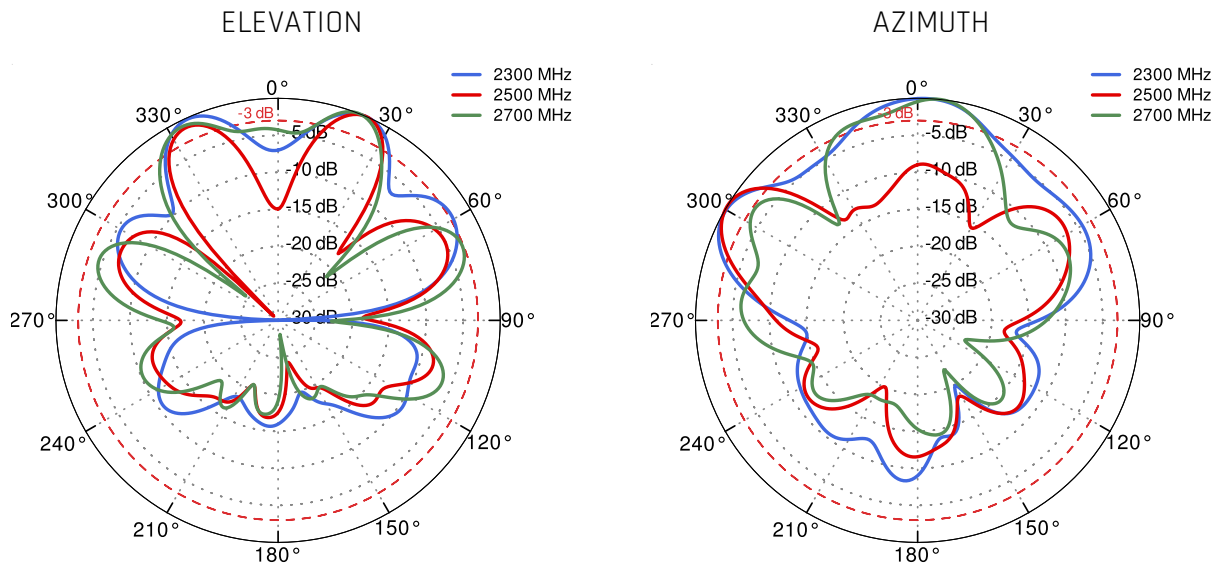


### PORT 1&3 - 5G/LTE from 5.0GHz to 5.9GHz

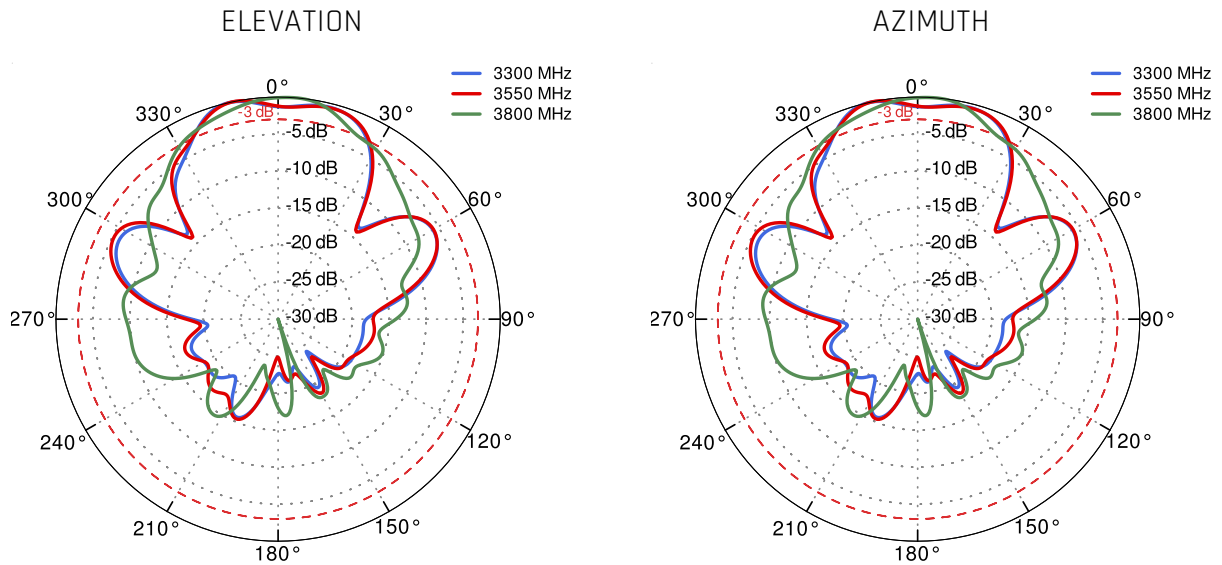


### PORT 2&4 - 5G/LTE from 650MHz to 950MHz

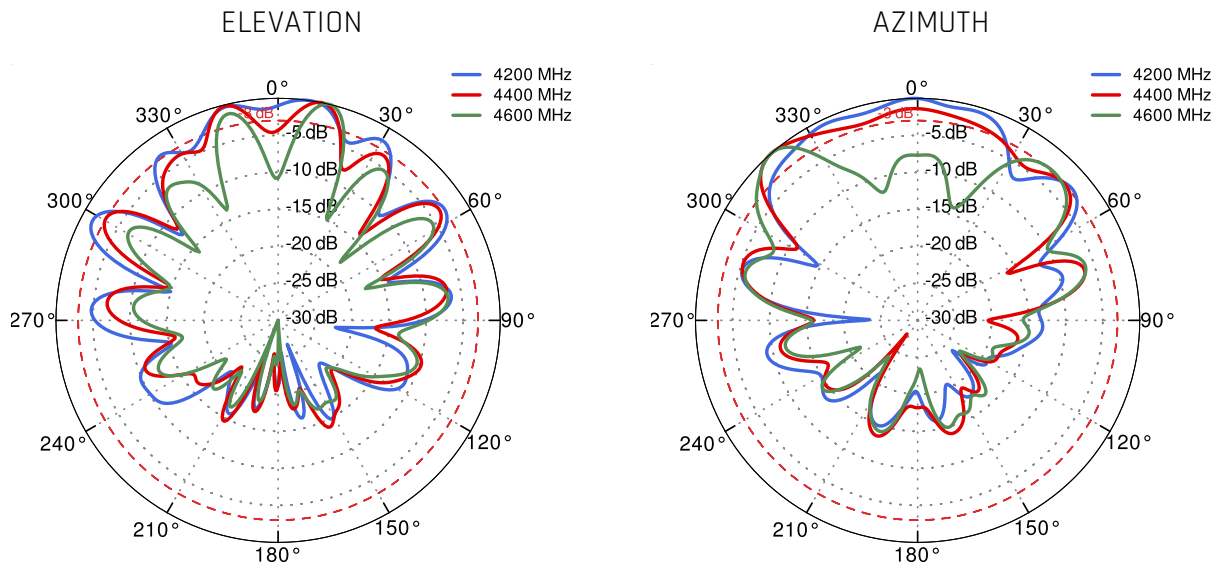


**PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz**

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


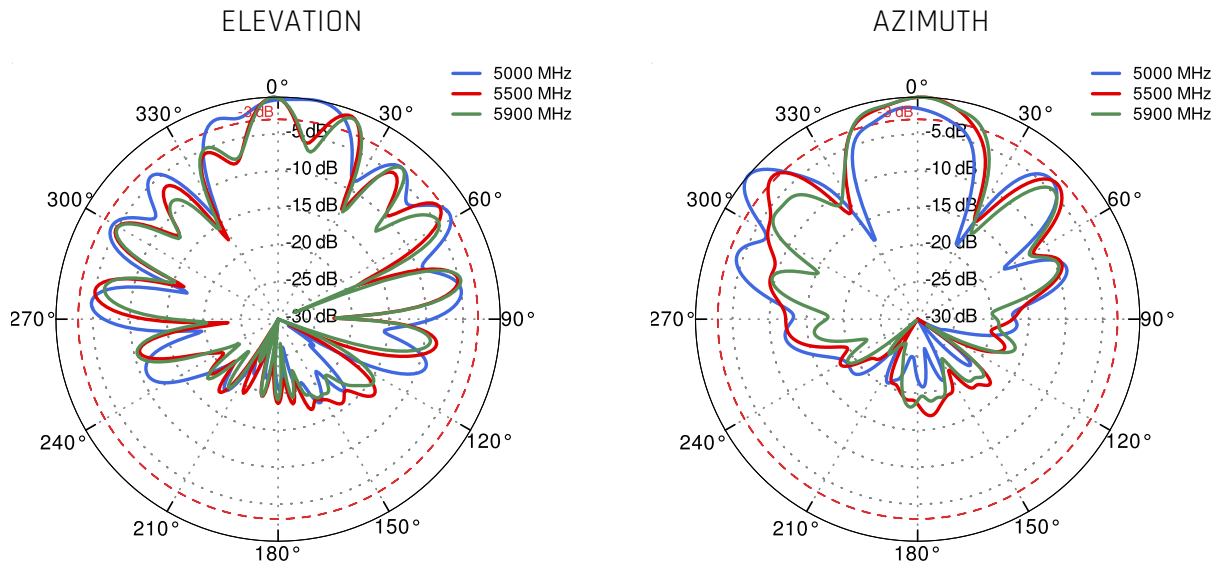
PORT 2&4 - 5G/LTE from 3.3GHz to 3.8GHz



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





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


**DIMENSIONS**
