

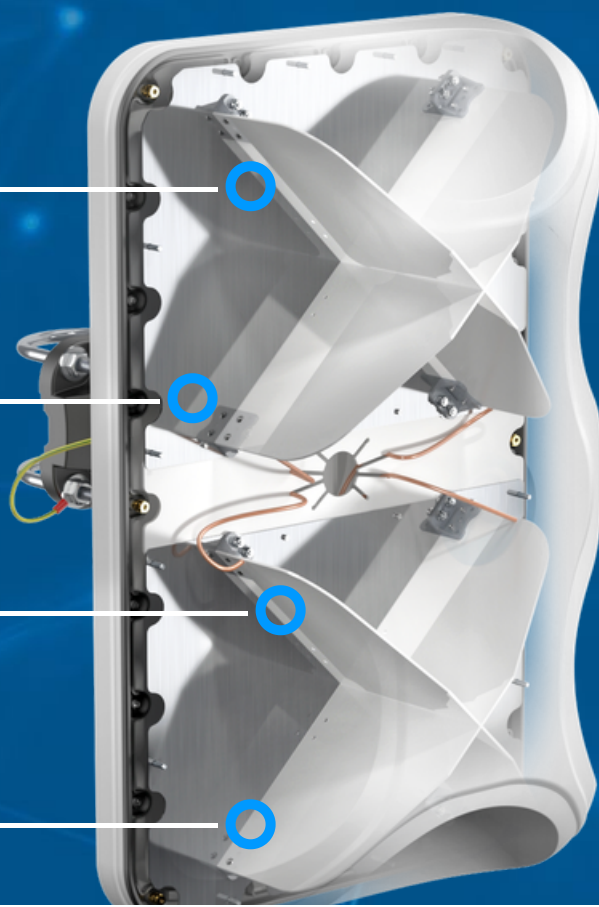
# QuMax for Teltonika TRB500

**INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + PoE SPLITTER + PLACE TO INSTALL TELTONIKA TRB500 (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 PoE splitter 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.

The set contains a [Passive 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. **NOTE:** should only be used with a 24V (or lower voltage) Passive PoE power supply it is not compatible with an 802.3af/at power source!

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****BAND 71****617-6000MHz****7 dBi****DIRECTIONAL****IP 68****-40° TO +80°****PASSIVE POE SUPPORT****ANTENNA PERFECTLY MATCHED WITH THE ROUTER****OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP68****MADE IN EUROPE**

## 5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.617 - 0.96 GHz 1.7 - 2.7 GHz 3.3 - 4.6 GHz 4.7 - 6.0 GHz
GAIN	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
SUPPORTED LTE BANDS	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
SUPPORTED 5G BANDS	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
VSWR	<2.00, max <3.00
BEAMWIDTH	80°/80° ±15°
POLARIZATION	X (±45degrees)
IMPEDANCE	50 Ω

## MECHANICAL SPECIFICATION

MATERIALS	ABS, aluminum, PTFE, Fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP68
DIMENSIONS	486.0 x 292.2 x 175.4 mm 19.13 x 11.50 x 6.87 inch
WEIGHT	2.8 kg 6.17 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F
MAST DIAMETER	25-60mm 0.98-2.36 inch

## POE SPECIFICATION

POE TYPE	Passive PoE up to 24V, not compatible with an 802.3af/at power source!
POE IN MODE	Mode type: B
IEEE STANDARD	IEEE 802.3ab 1000Base-T Gigabit Ethernet

# **FREQUENCY BANDS**

**LTE / 4G**

617  
MHz

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						

6000M  
Hz

**5G**

617  
MHz

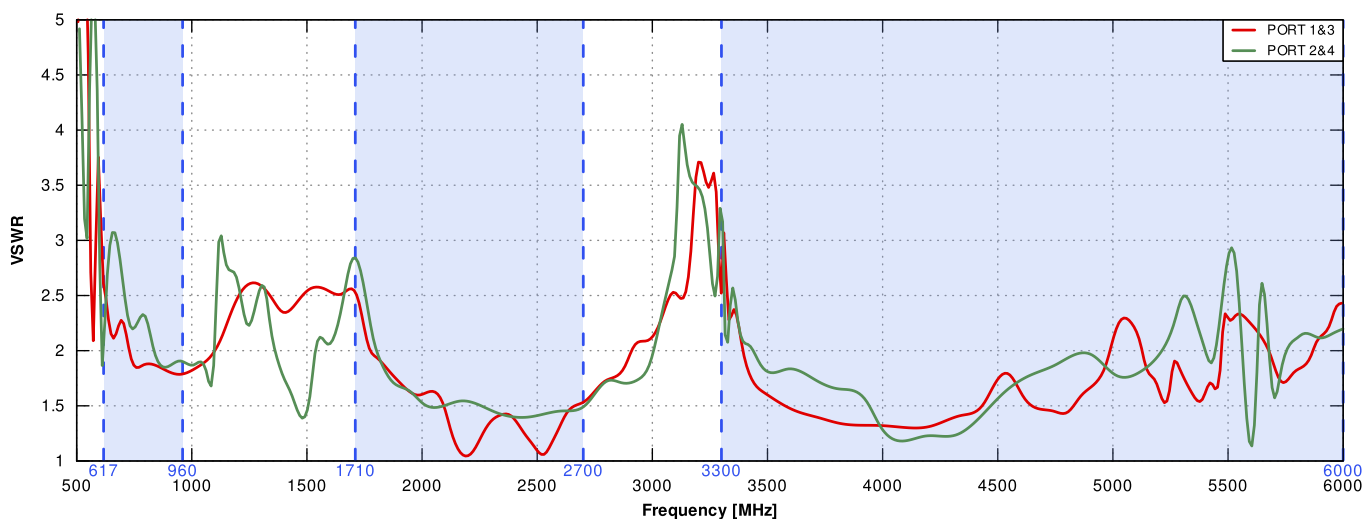
n1	n2	n3	n5	n7	n8	n12
n13	n14	n18	n20	n25	n26	n28
n29	n30	n34	n38	n39	n40	n41
n46	n47	n48	n53	n65	n66	n67
n71	n77	n78	n80	n81	n82	n83
n84	n85	n86	n89	n90	n95	n97
n98	n100	n101	n255			

6000  
MHz

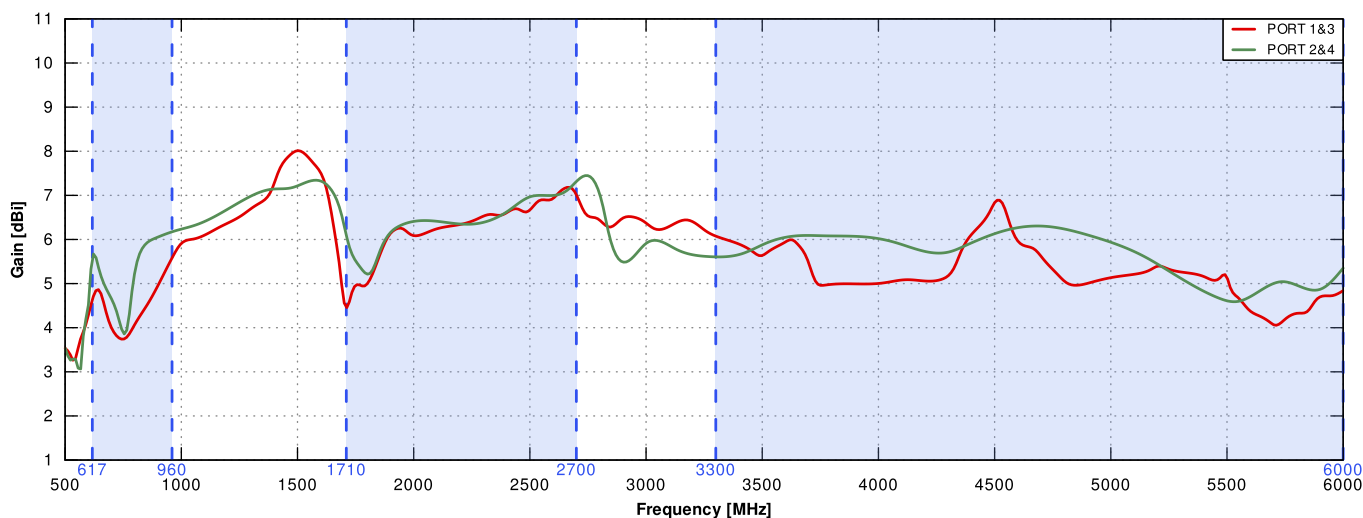


## **PLOTS**

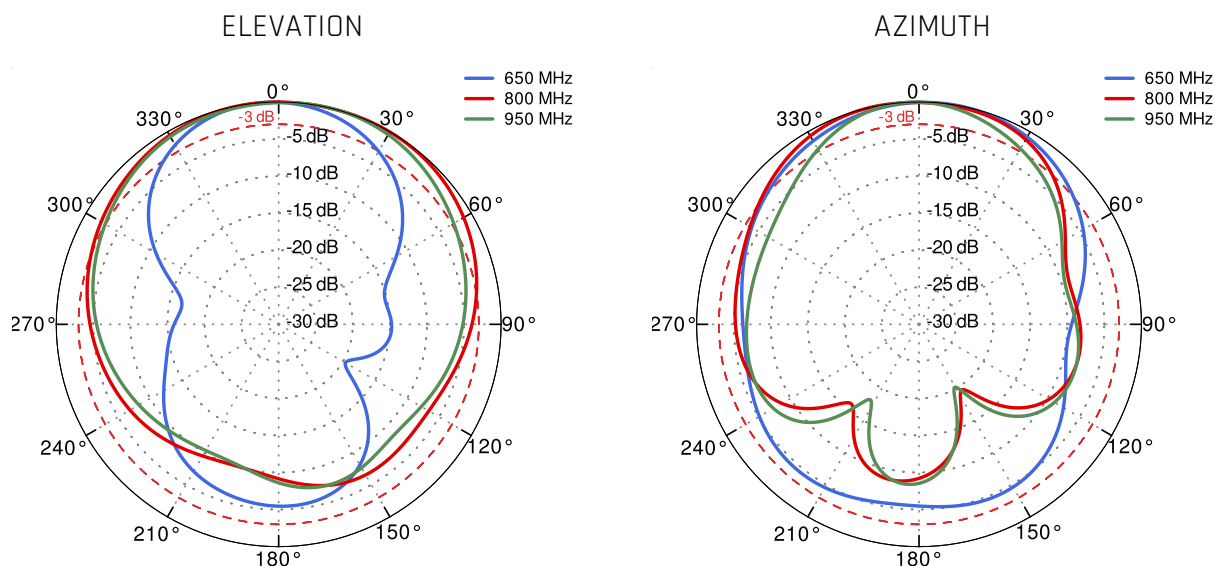
VSWR for 5G/LTE antenna



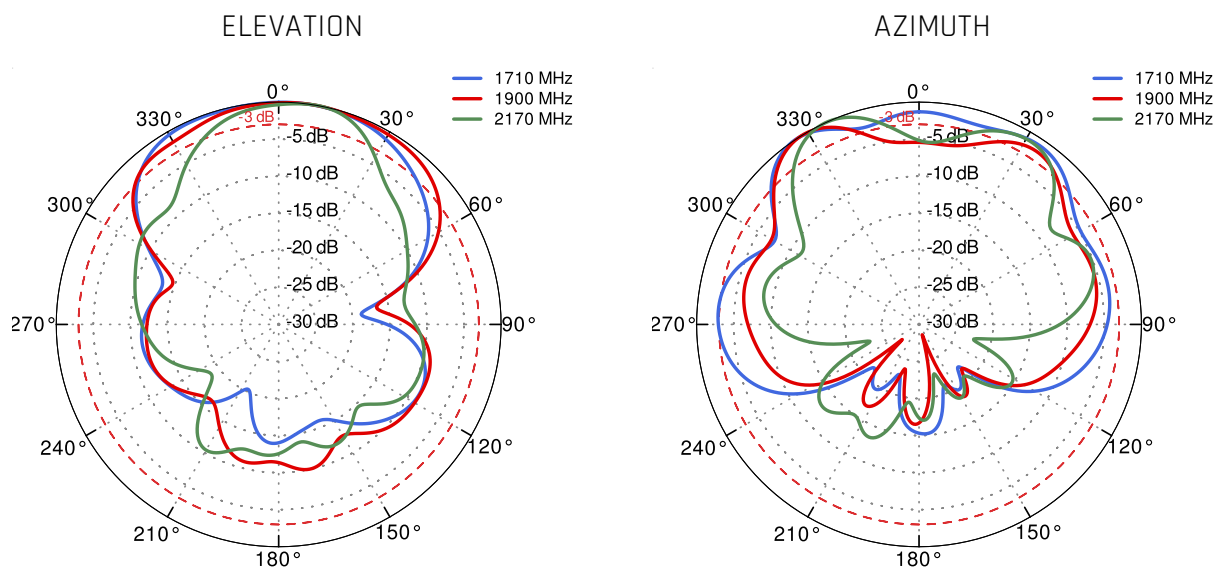
Gain for 5G/LTE antenna



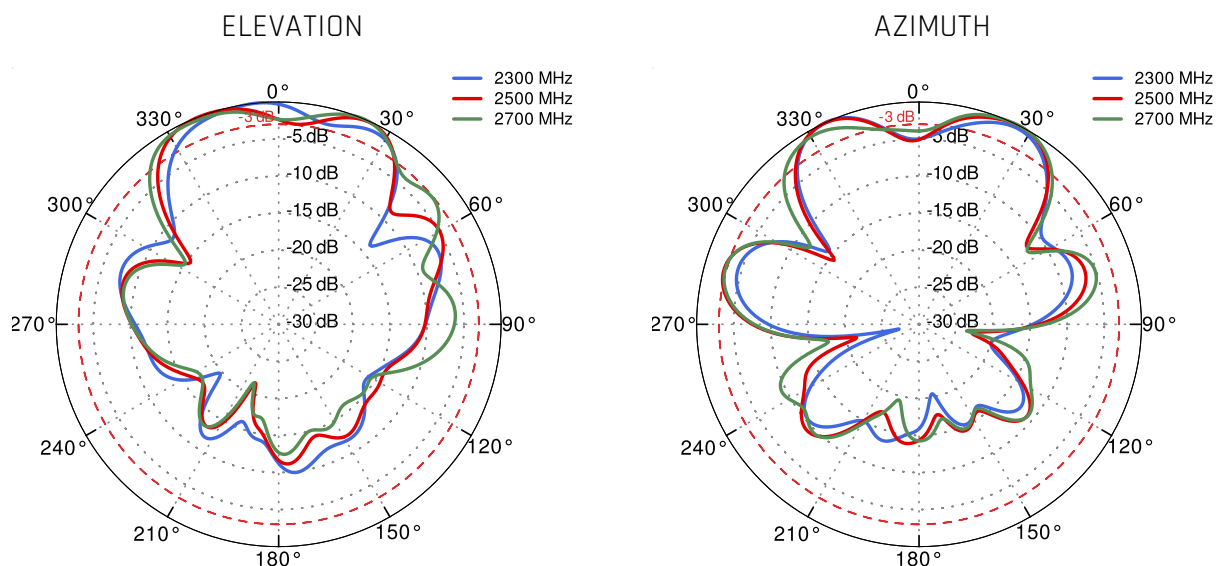
## PORT 1&3 - 5G/LTE from 650MHz to 950MHz



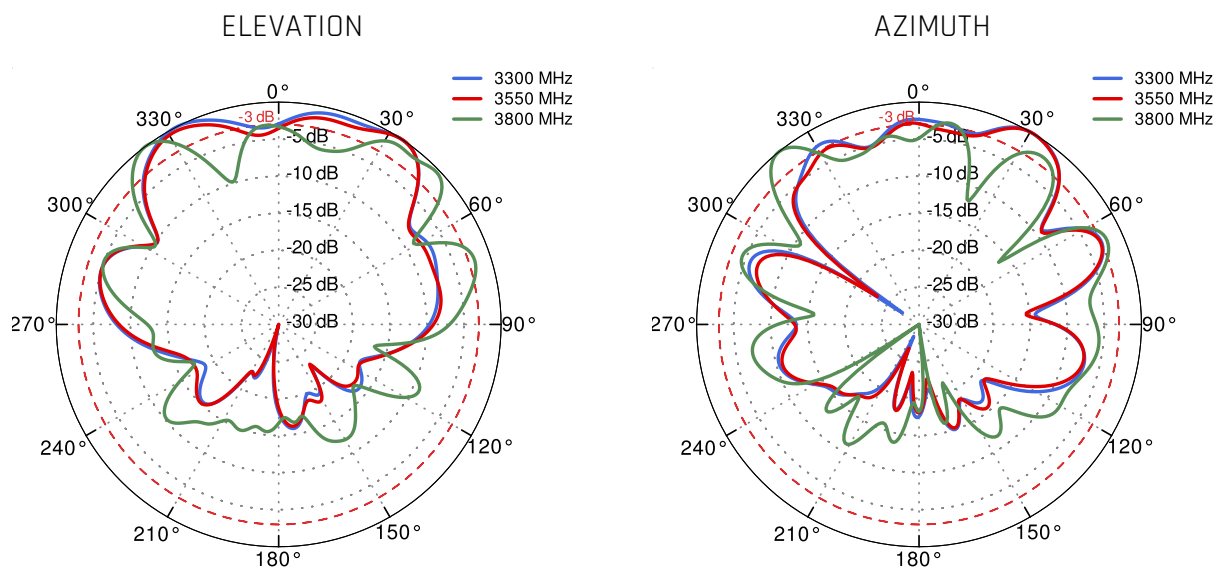
## PORT 1&3 - 5G/LTE from 1.71GHz to 2.17GHz



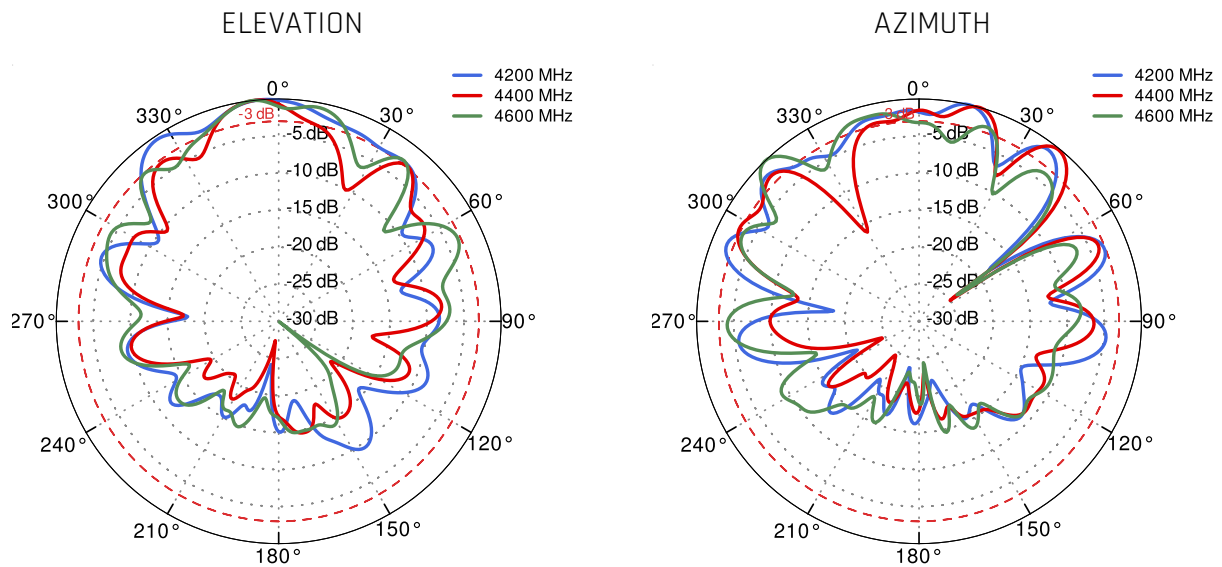
## PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz



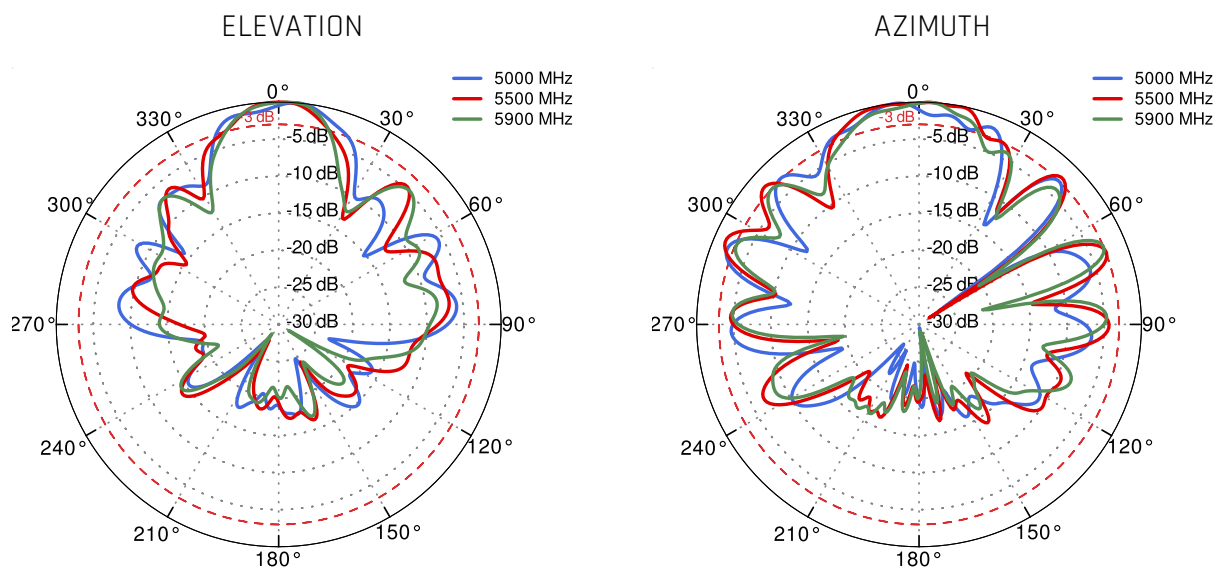
## PORT 1&3 - 5G/LTE from 3.3GHz to 3.8GHz



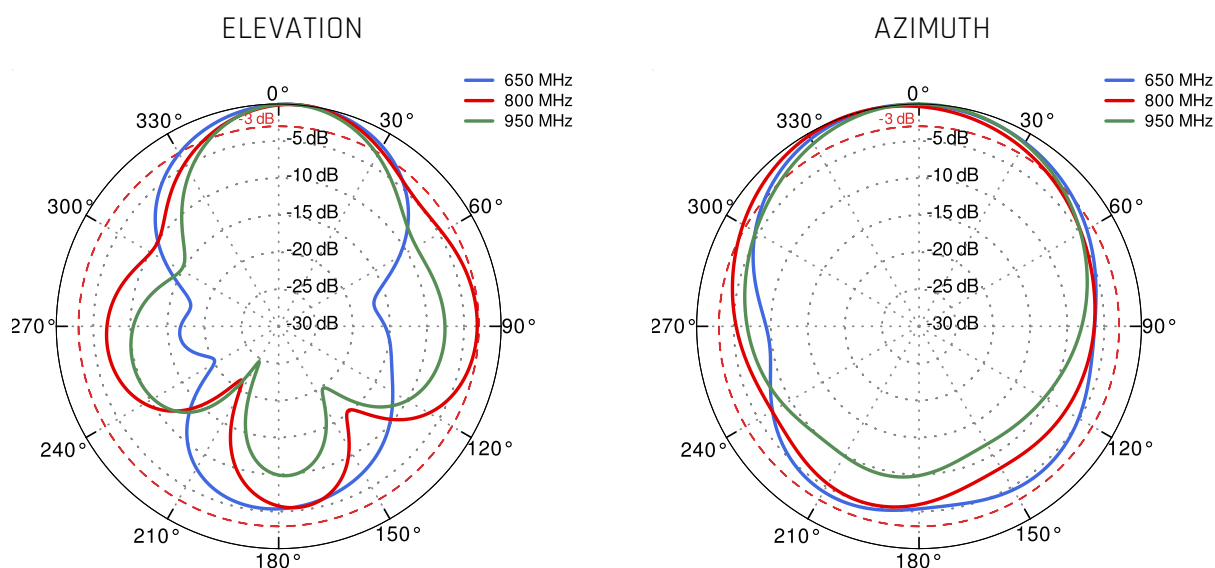
## PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz



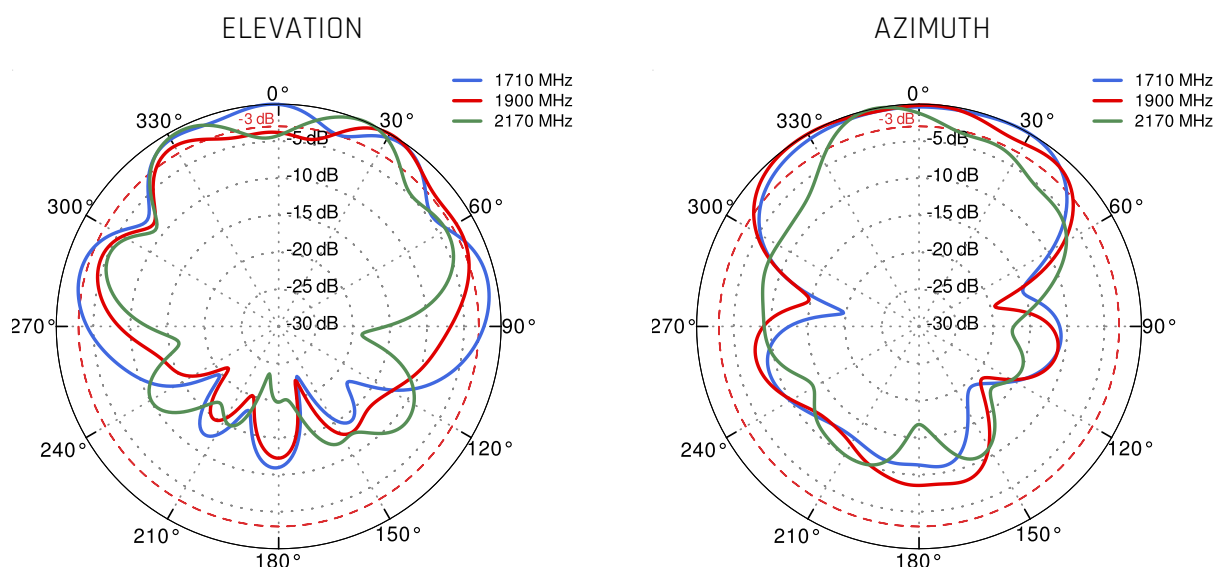
## PORT 1&3 - 5G/LTE from 5.0GHz to 5.9GHz



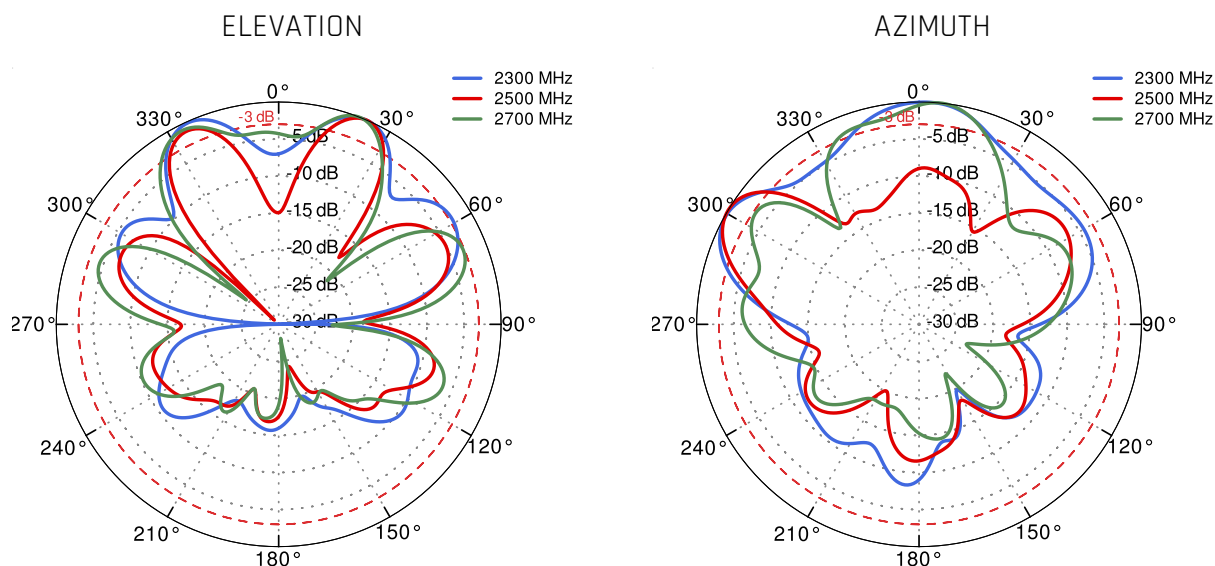
## PORT 2&4 - 5G/LTE from 650MHz to 950MHz



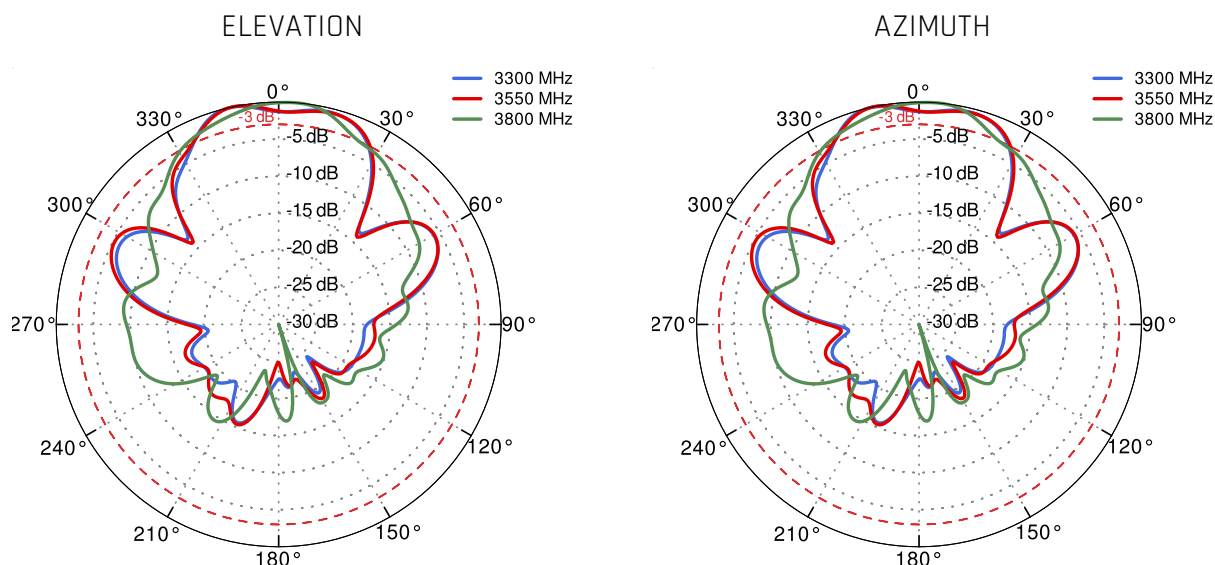
## PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz



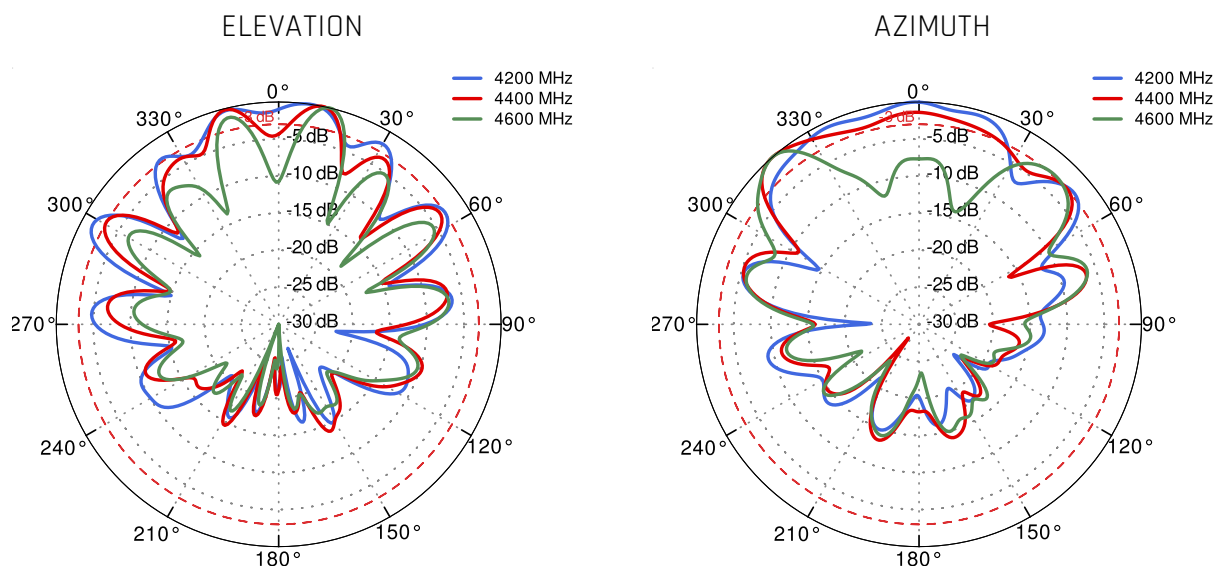
## PORT 2&4 - 5G/LTE from 2.3GHz to 2.7GHz



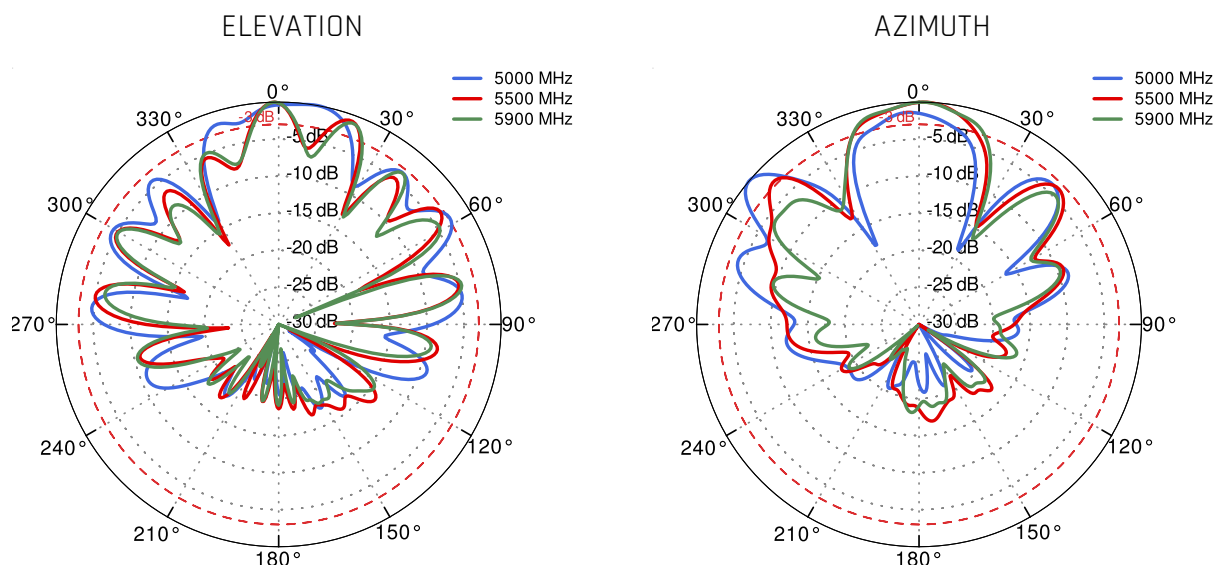
## PORT 2&4 - 5G/LTE from 3.3GHz to 3.8GHz



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



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





## DIMENSIONS

