

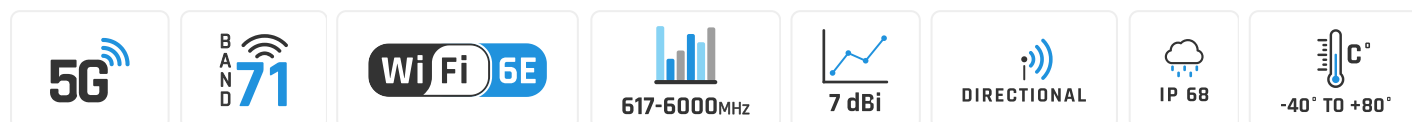
# QuMax for MikroTik RBxxx

**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.



**UNIVERSAL MIKROTIK SOLUTION**



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

## WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.40 - 2.50 GHz 5.0 - 7.125 GHz
GAIN	2.40 - 2.50 GHz : 6 dBi 5.0 - 7.125 GHz : 7.5 dBi
VSWR	<1.70, max <2.00
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 $\Omega$

## MECHANICAL SPECIFICATION

MATERIALS	ABS, aluminum, PTFE, Fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP68
DIMENSIONS	486.0 x 292.2 x 105.6 mm 19.13 x 11.50 x 4.16 inch
WEIGHT	2.8 kg 6.17 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F
ENCLOSURE RECOMMENDED TIGHTENING TORQUE	0.6 - 0.8 Nm
MAST DIAMETER	25-66mm 0.98-2.60 inch

# **FREQUENCY BANDS**

**LTE / 4G**

617  
MHz

6000M  
Hz

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						

**5G**

617  
MHz

6000  
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			

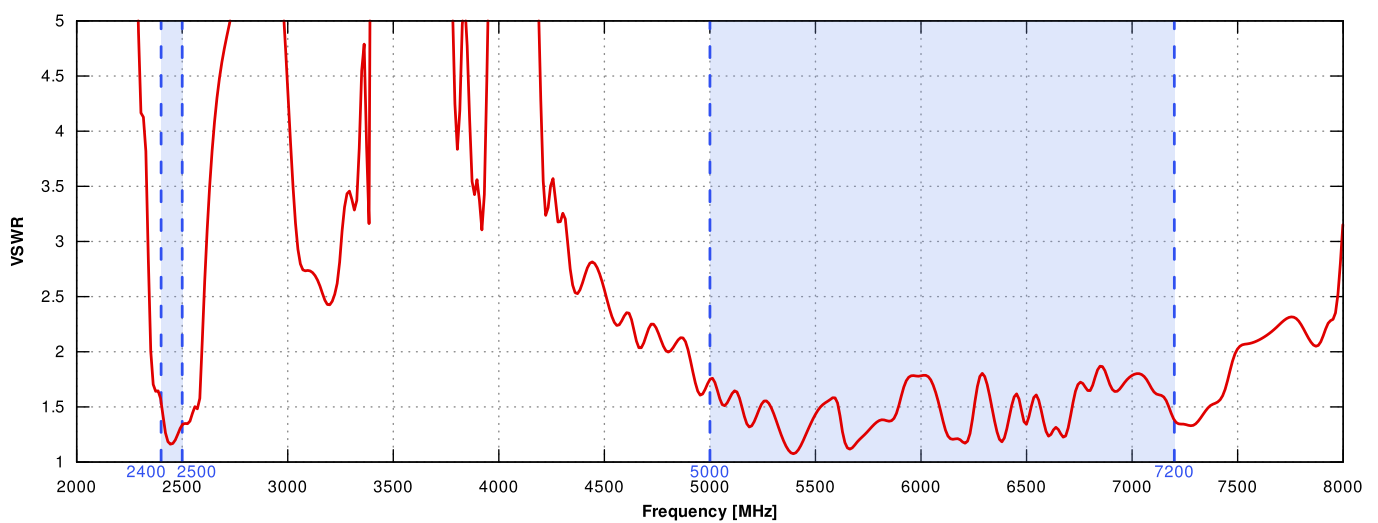


## PLOTS

### VSWR for 5G/LTE antenna



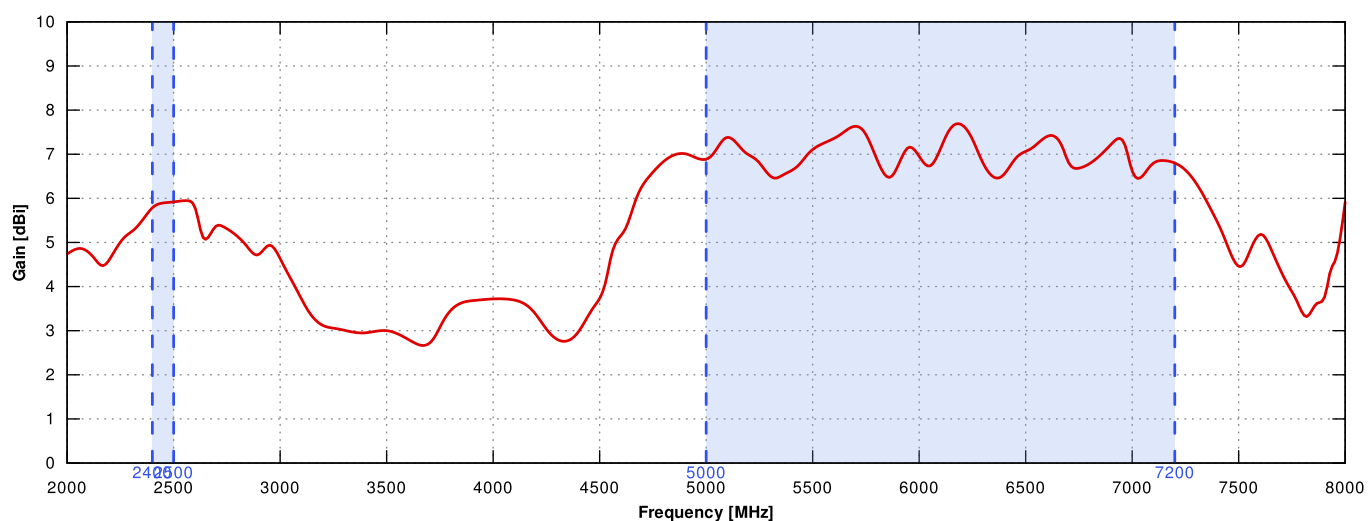
### VSWS for Wi-Fi antenna



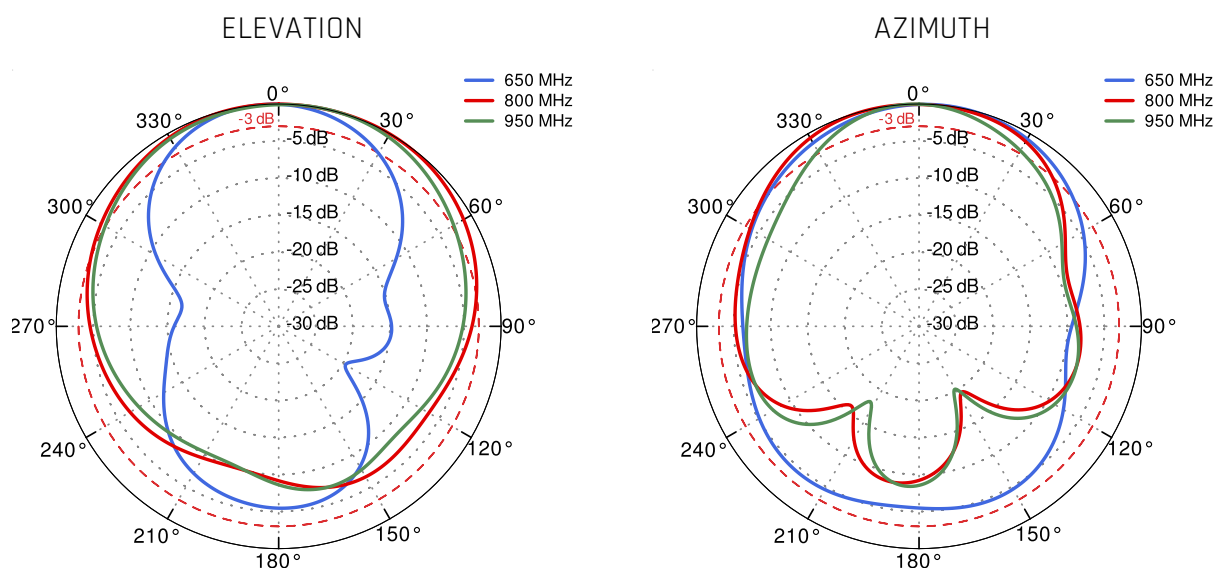
## Gain for 5G/LTE antenna



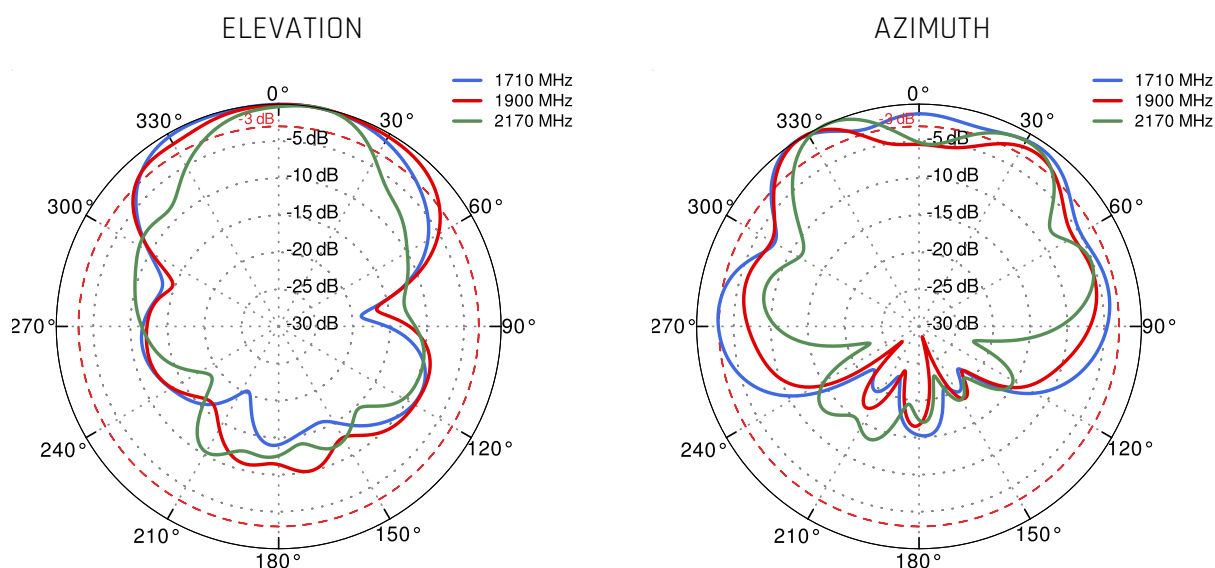
## Gain for Wi-Fi antenna



## 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



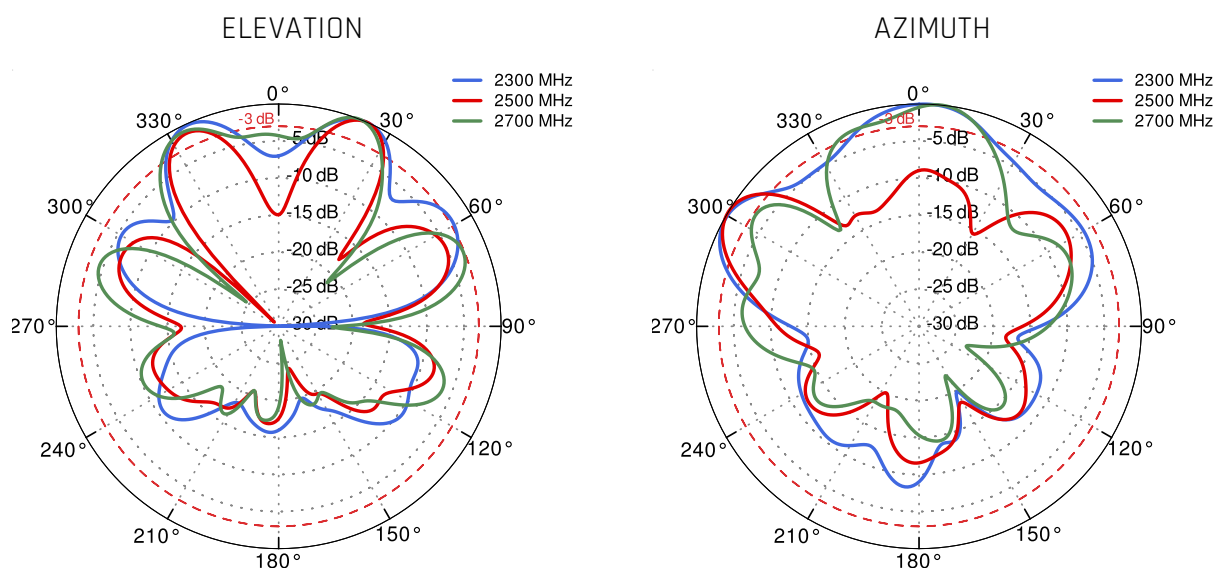
## PORT 2&4 - 5G/LTE from 650MHz to 950MHz



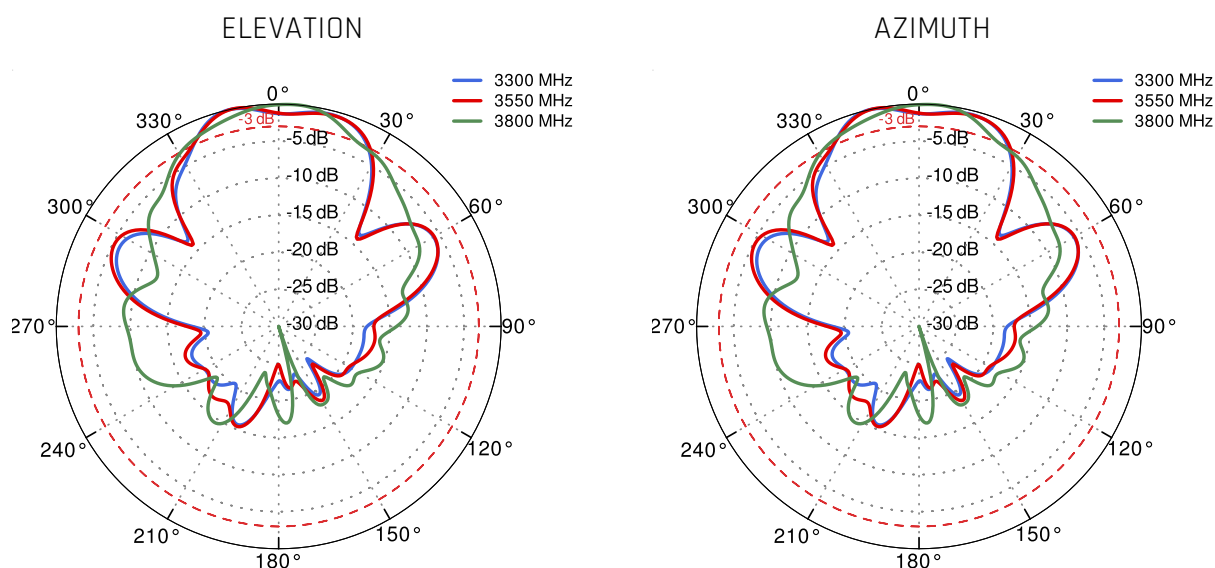
## PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz



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

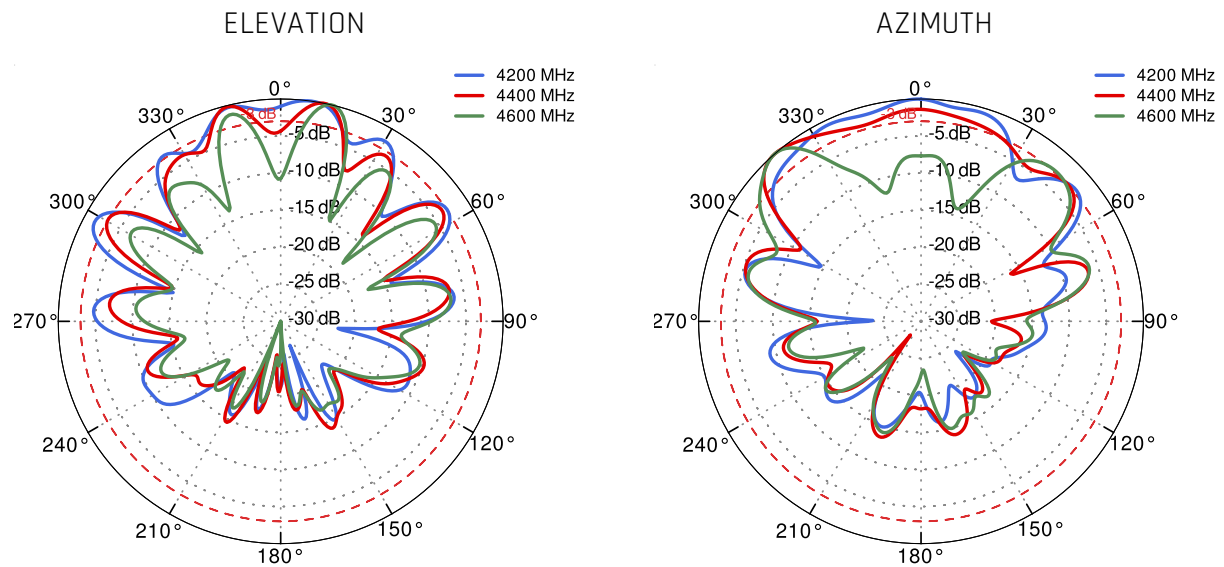


## PORT 2&4 - 5G/LTE from 3.3GHz to 3.8GHz

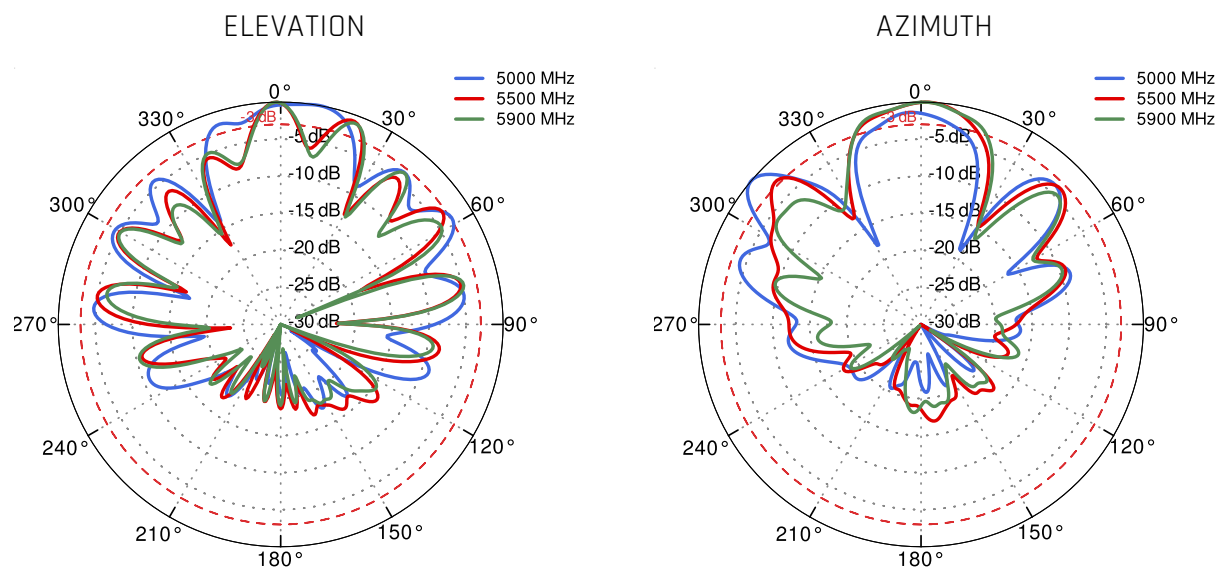




## PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz



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





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



## DIMENSIONS

