

# QuWave 5G Lite GNSS BT for Teltonika

**INTEGRATED MULTI-BAND 5G/LTE OMNI ANTENNA + WI-FI OMNI ANTENNA + GPS ACTIVE ANTENNA + BLUETOOTH ANTENNA + PLACE TO INSTALL TELTONIKA ROUTERS (ALL-IN-ONE)**

QuWave Lite is an outdoor antenna designed to provide reliable wireless connectivity in a variety of environments. This product is an all in one solution that integrates a high gain omnidirectional 5G/LTE, Wi-Fi, GPS and BT antennas with all Teltonika routers into a single IP67 enclosure. Such integration allows implementation of new outdoor 5G/LTE solutions.

QuWave for Teltonika is an ideal solution for outdoor wireless connectivity in moving applications such as transportation, yachting, boats and camping but also city centres with high signal density.

Compatible with the following Teltonika routers: RUTC50, RUTX12, RUTX14, RUTX11, RUTX50, RUTM50, RUTM54, RUTM20, RUTM30, RUTM31, RUTX09, RUT9xx, RUT3xx, RUT2xx



OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP67



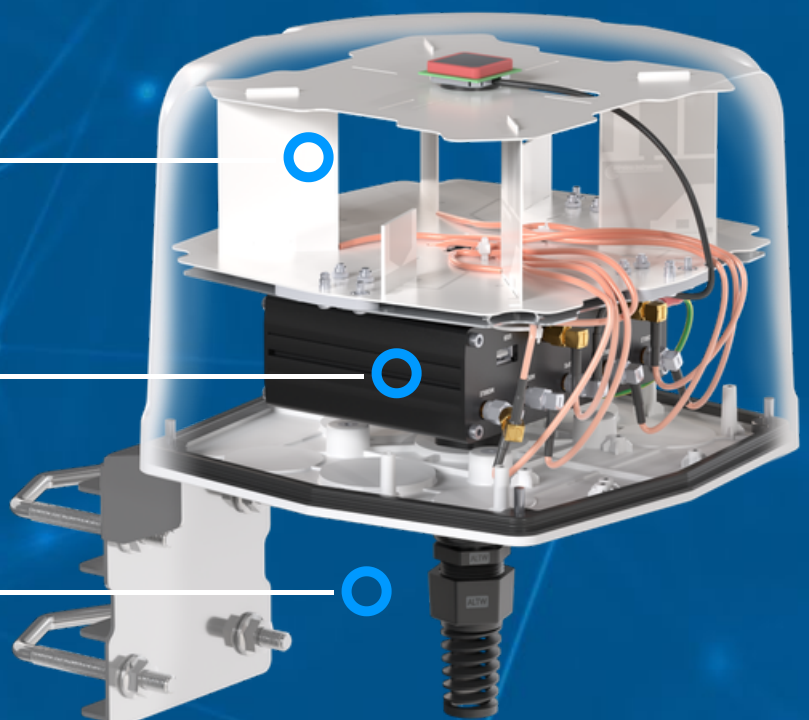
ANTENNA PERFECTLY MATCHED WITH THE TELTONIKA ROUTERS



ALL ANTENNAS AND TELTONIKA ROUTER INTEGRATED IN ONE ENCLOSURE



GALVANIZED STEEL, WALL OR POLE MOUNTING BRACKET



## 5G / LTE ANTENNA SPECIFICATION

<b>FREQUENCY</b>	0.58 - 2.0 GHz 2.0 - 3.5 GHz 3.5 - 5.0 GHz 5.0 - 6.35 GHz
<b>MAX. GAIN</b>	0.58 - 2.0 GHz : 2 dBi 2.0 - 3.5 GHz : 3.2 dBi 3.5 - 5.0 GHz : 3.1 dBi 5.0 - 6.35 GHz : 3.8 dBi
<b>SUPPORTED LTE BANDS</b>	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 65, 66, 67, 68, 69, 70, 71, 74, 75, 76, 85, 103, 106, 107, 111, 252, 253, 254, 255, 256
<b>SUPPORTED 5G BANDS</b>	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n24, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n50, n51, n53, n54, n65, n66, n67, n68, n70, n71, n74, n75, n76, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n91, n92, n93, n94, n95, n97, n98, n99, n100, n101, n105, n106, n109, n110, n250, n251, n252, n253, n254, n255, n256
<b>VSWR</b>	<2.50, max <3.00
<b>BEAMWIDTH</b>	360°/35° ±5°
<b>POLARIZATION</b>	Vertical
<b>IMPEDANCE</b>	50 Ω
<b>CONNECTOR</b>	4x SMA
<b>CABLE TYPE</b>	RG316

## WI-FI ANTENNA SPECIFICATION

<b>FREQUENCY</b>	2.4 - 2.5 GHz 5.0 - 7.2 GHz
<b>MAX. GAIN</b>	2.4 - 2.5 GHz: 2dBi 5.0 - 7.2 GHz: 5dBi
<b>VSWR</b>	< 2.50
<b>BEAMWIDTH</b>	360°/25°
<b>POLARIZATION</b>	Vertical
<b>IMPEDANCE</b>	50 $\Omega$
<b>CONNECTOR</b>	3x RPSMA
<b>CABLE TYPE</b>	RG316

## GPS ACTIVE ANTENNA SPECIFICATION

<b>FREQUENCY</b>	1.56 - 1.61 GHz
<b>VSWR</b>	< 2
<b>GAIN</b>	3 dBi
<b>GAIN 3V</b>	28 dBi
<b>DC POWER INPUT</b>	2.5 V ~ 6.5 V
<b>POWER CONSUMPTION</b>	2.5 - 6.5 mA
<b>IMPEDANCE</b>	50 $\Omega$
<b>POLARIZATION</b>	RHCP (right hand circularly polarized)

**CONNECTOR**

1x SMA

**CABLE TYPE**

RG174

## MECHANICAL SPECIFICATION

**MATERIALS**

ABS, aluminum, PTFE

**CONNECTOR TYPE**

1x QuRJ45

**OUTER DIMENSIONS**

210 x 210 x 165 mm  
8.27 x 8.27 x 6.49 inch

**INGRESS PROTECTION**

IP67

**OPERATING TEMPERATURE**

From -40°C to 80°C  
From -40°F to 176°F

**MAST DIAMETER**

25-66 mm  
0.98-2.60 inch

**ENCLOSURE RECOMMENDED  
TIGHTENING TORQUE**

0.5 - 0.7 Nm

## 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
47	48	49	52	53	65	66
67	68	69	71	85	103	106

617 MHz      6000 MHz

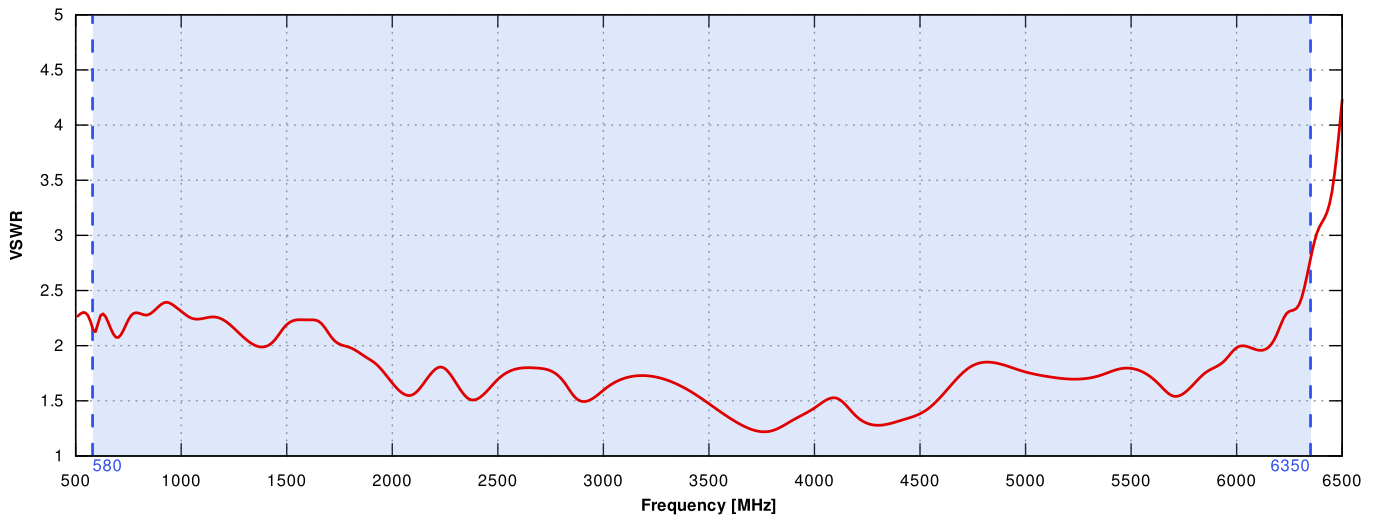
5G

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

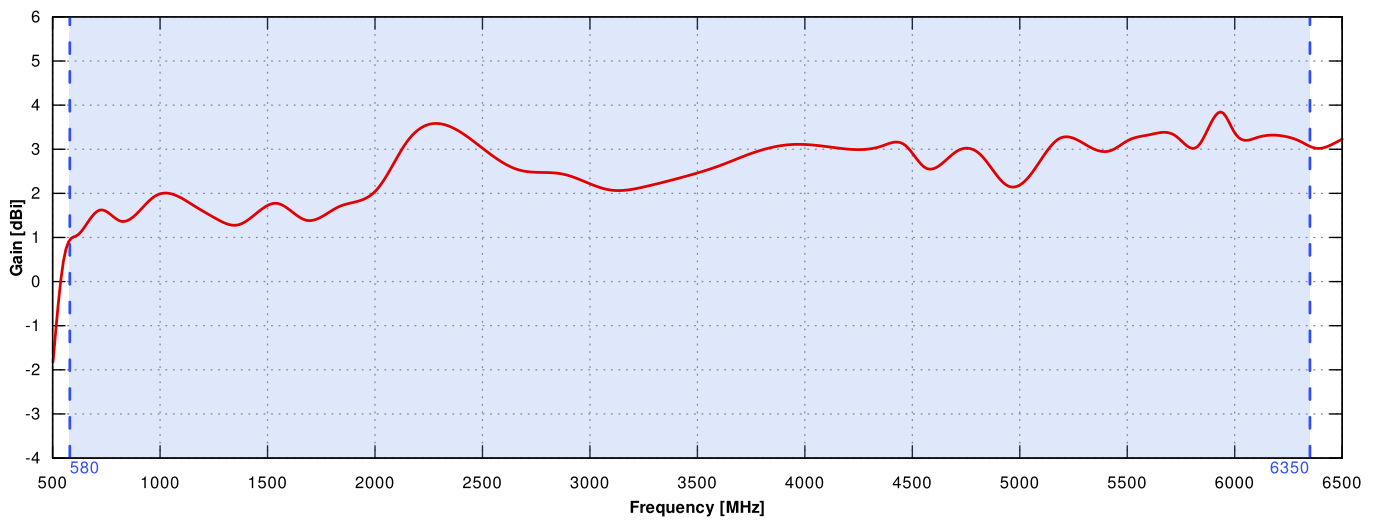
617 MHz      6000 MHz

## PLOTS

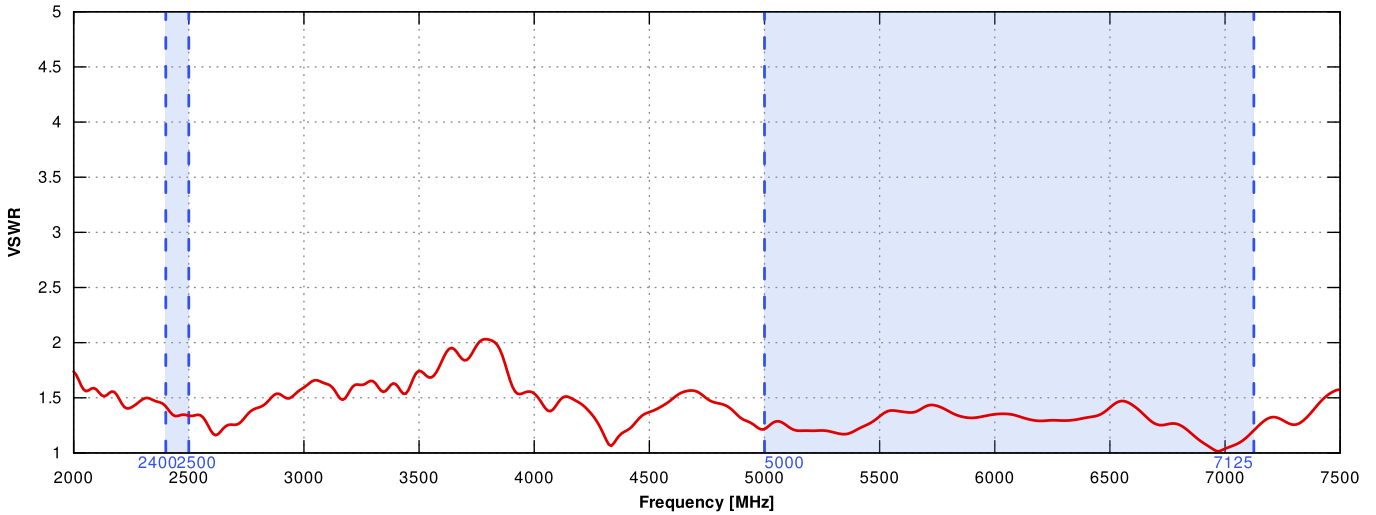
### 5G/LTE VSWR



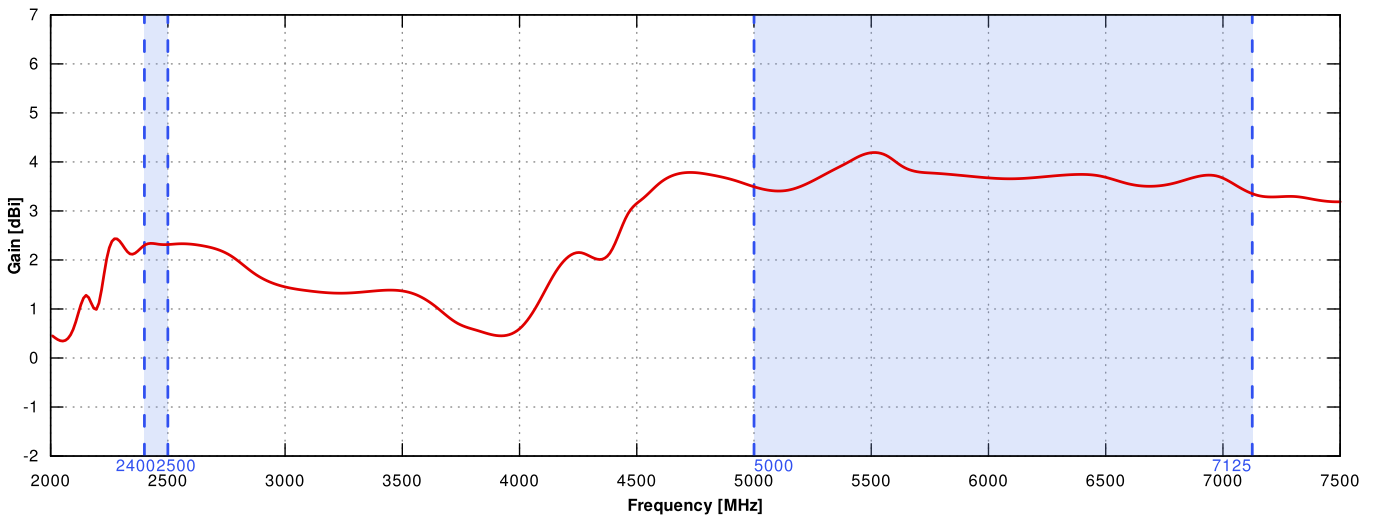
### 5G/LTE Gain



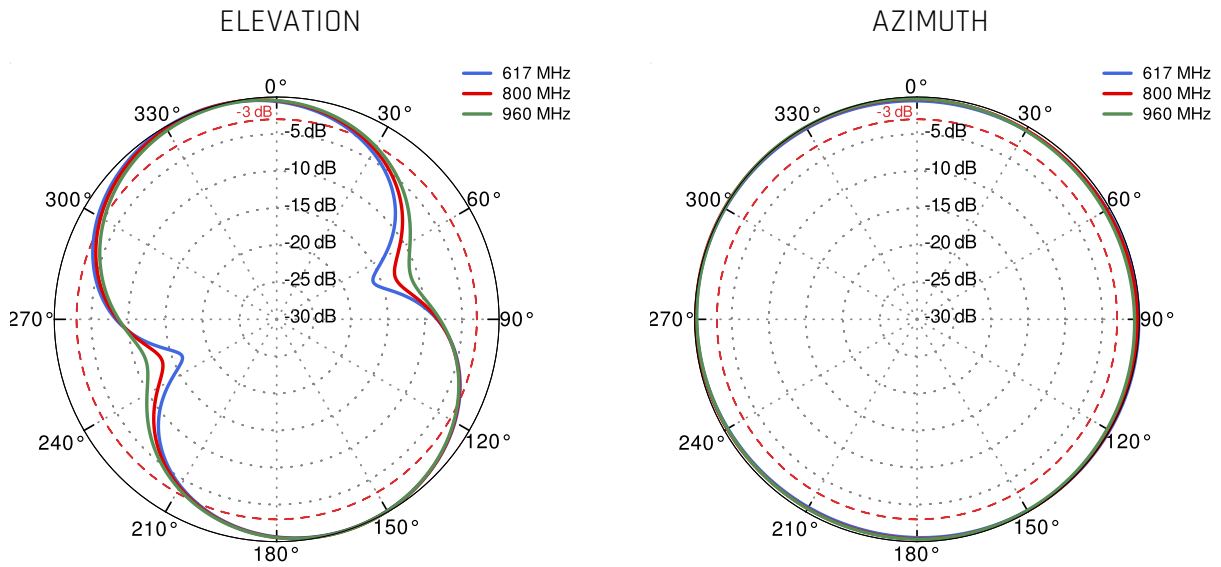
### WI-FI VSWR



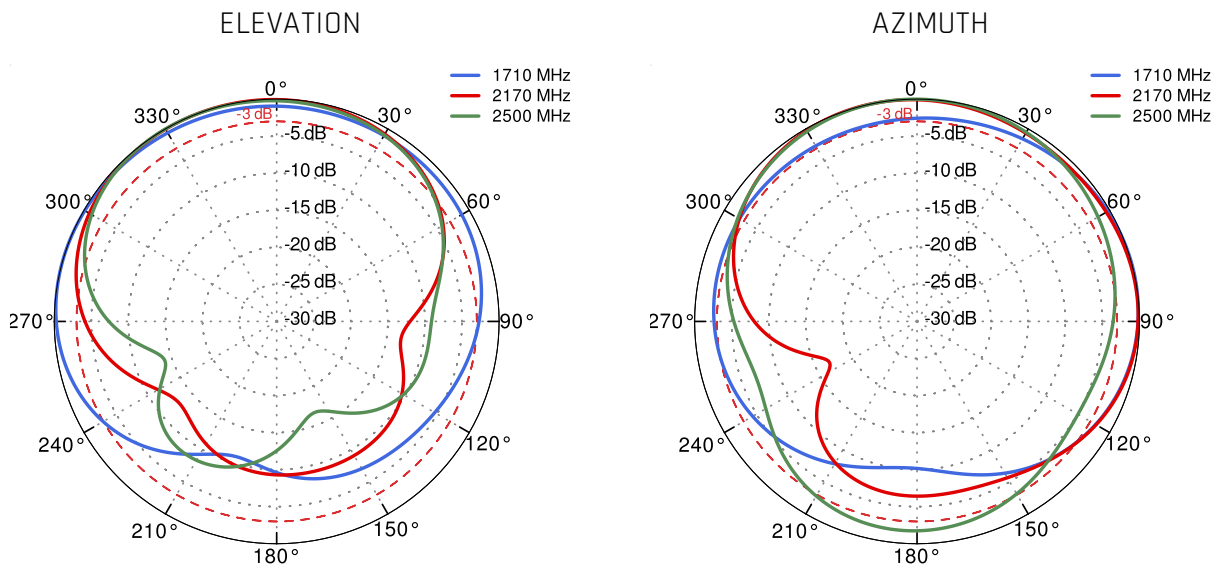
### WI-FI Gain



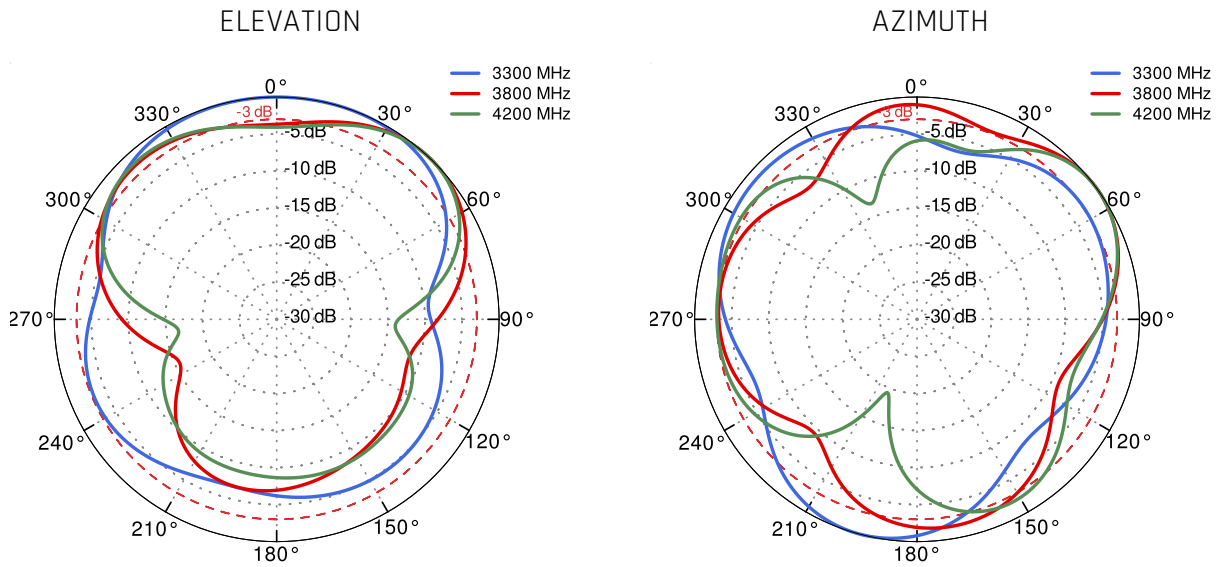
5G/LTE From 617MHz to 960MHz



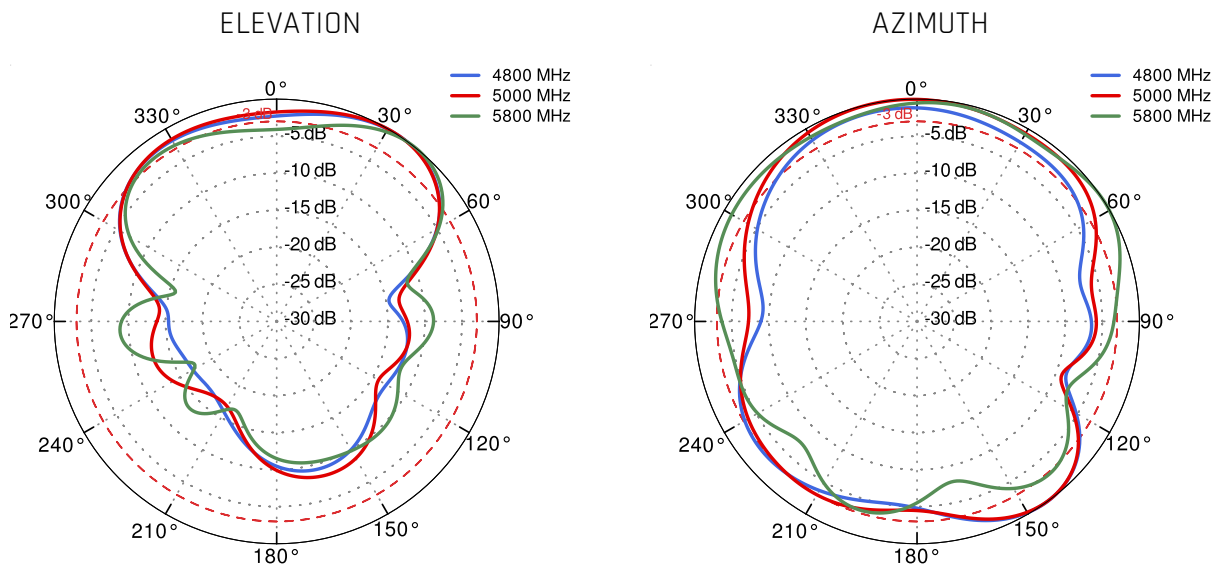
5G/LTE From 1.71GHz to 2.5GHz



5G/LTE From 3.3GHz to 4.2GHz



5G/LTE From 4.8GHz to 5.8GHz



## Wi-Fi From 2.4 GHz to 5.8 GHz

