

# QuShell 46G

**QuShell 5G/LTE 4x4MIMO, 6x6 MIMO WiFi 6e is a high performance mobility antenna providing performance connectivity across diverse frequencies and applications for 5G/4G/LTE.**

QuShell 5G/LTE 4x4MIMO, 6x6 MIMO WiFi 6e is a high performance mobility antenna providing performance connectivity across diverse frequencies and applications for **5G/4G/LTE**. It offers optional GPS/GNSS and up to 6x6 MIMO/Diversity configurations at 2.4/5.0/7.2GHz for Wi-Fi. The optional high-performance GPS/GNSS antenna features an integrated 18dB gain LNA.

It comes with **4x 5G/LTE, 1x GPS/GNSS** and **6x Wi-Fi** antennas.

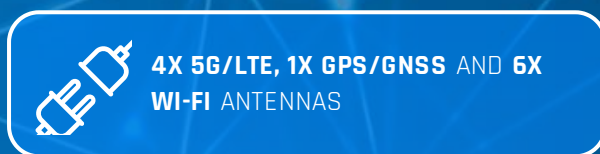
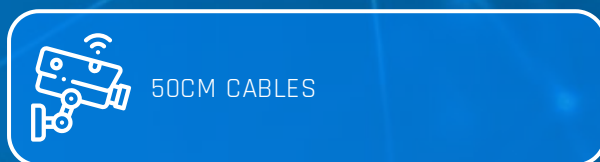
It covers a wide range from **617 to 6000 MHz** for 5G/LTE bands and additionally dual-band Wi-Fi 6e antennas provide concurrent **2.4 GHz and 5 to 7.2 GHz**.

The QuShell 5G/LTE finds its place in public **sector industry** (busses, firetrucks, ambulances), marine environments, tourism and various IoT systems.

The set consists of marine, surface and **pole/wall mounting brackets** allowing to install QuShell on a roof, mast, pole, wall or other flat surfaces.

Standard cable length is 50cm. For other variants please contact your local reseller or account manager.

**Optional roof mounting is not included** in standard set. Please notify us whether you would like to order the roof mounting version.



## **WI-FI SPECIFICATION**

<b>FREQUENCY</b>	2.4 - 2.5 GHz 5 - 7.2 GHz
<b>GAIN</b>	2.4 - 2.5 GHz: 2dBi 5 - 7.2 GHz: 5dBi
<b>VSWR</b>	< 2.50
<b>BEAMWIDTH</b>	360°/25°
<b>POLARIZATION</b>	Vertical
<b>IMPEDANCE</b>	50 $\Omega$
<b>MAX INPUT POWER</b>	50W
<b>DC GROUND</b>	Yes

## **5G/LTE SPECIFICATION**

<b>FREQUENCY</b>	617 - 960 MHz 1.7 - 2.7 GHz 3.3 - 6.0 GHz
<b>GAIN</b>	617 - 960 MHz : 2 dBi 1.7 - 2.7 GHz : 3 dBi 3.3 - 6.0 GHz : 4 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, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256

<b>VSWR</b>	<1.20, max <2.50
<b>BEAMWIDTH</b>	360°/35° ±5°
<b>POLARIZATION</b>	Vertical
<b>IMPEDANCE</b>	50 Ω

## **MECHANICAL SPECIFICATION**

<b>MATERIAL</b>	ABS
<b>CONNECTOR</b>	6xRPSMA & 5xSMA
<b>OUTER DIMENSIONS</b>	160 x 160 x 90 mm 6.3 x 6.3 x 3.54 inch
<b>WEIGHT</b>	1.5 kg
<b>OPERATING TEMPERATURE</b>	-40°C to 80°C -40°F to 176°F
<b>CABLE TYPE</b>	RG174

## **MOUNTING KIT**

<b>MATERIAL</b>	Galvanized steel
<b>WEIGHT</b>	0.4kg
<b>MOUNTING PLACE</b>	Wall or mast
<b>MAST DIAMETER</b>	25-66 mm 0.98-2.60 inch

## COMPATIBLE ROUTERS

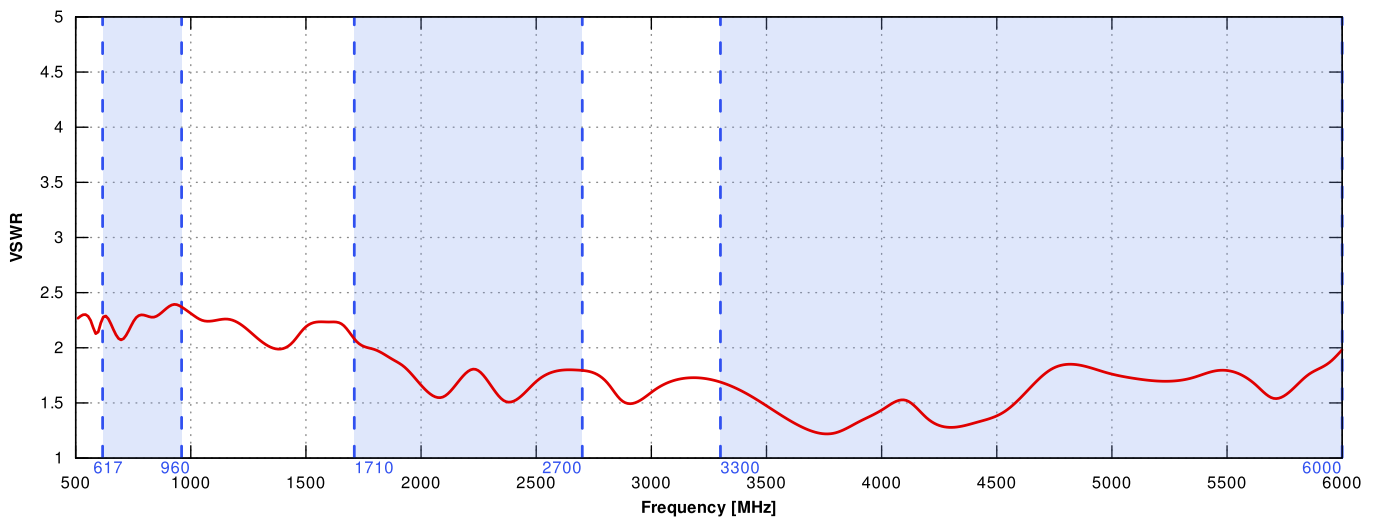
VARIANT: ASL46G

<b>TELTONIKA</b>	RUTC50, RUTM30, RUTM31, RUTM51, RUTM54, RUTM55, RUTM56, RUTM59, RUTX50, TRB500, TRB501
<b>ROBUSTEL</b>	EG5120, R5010, R5020, R5020 Lite
<b>ADTRAN</b>	Bluesocket 6120
<b>CISCO</b>	CG522-E
<b>COMSET</b>	CM550W, CM580W, CM685VX, CM950W
<b>CUDY</b>	P5
<b>DIGI</b>	EX50, IX40, TX64
<b>ENGENIUS</b>	ENH1350EXT, EWS850-FIT
<b>ERICSSON (CRADLEPOINT)</b>	E300, E3000, R1900, R2400, R980, W1850, W4005
<b>FOUR-FAITH</b>	5G Industrial CPE F-NR200, 5G Industrial Router F-NR100, 5G SIM WiFi Router F-NR120, 5G Smart Light Pole Gateway F-G300, 5G WiFi Router with SIM Card Slot F-NR130, Smart Light Pole Gateway F-G310
<b>HUAWEI</b>	AirEngine 9700D-S
<b>MILESIGHT</b>	UF31, UR75
<b>PEPLINK</b>	Balance 310 5G, Balance 310 fiber 5G, BR1 Mini 5G, BR2 PRO, MAX BR1 Pro 5G, MAX Transit Duo Pro
<b>PERLE</b>	IRG7440
<b>PROROUTE</b>	H685 WRT M2M 5G Router, H900 5G Router

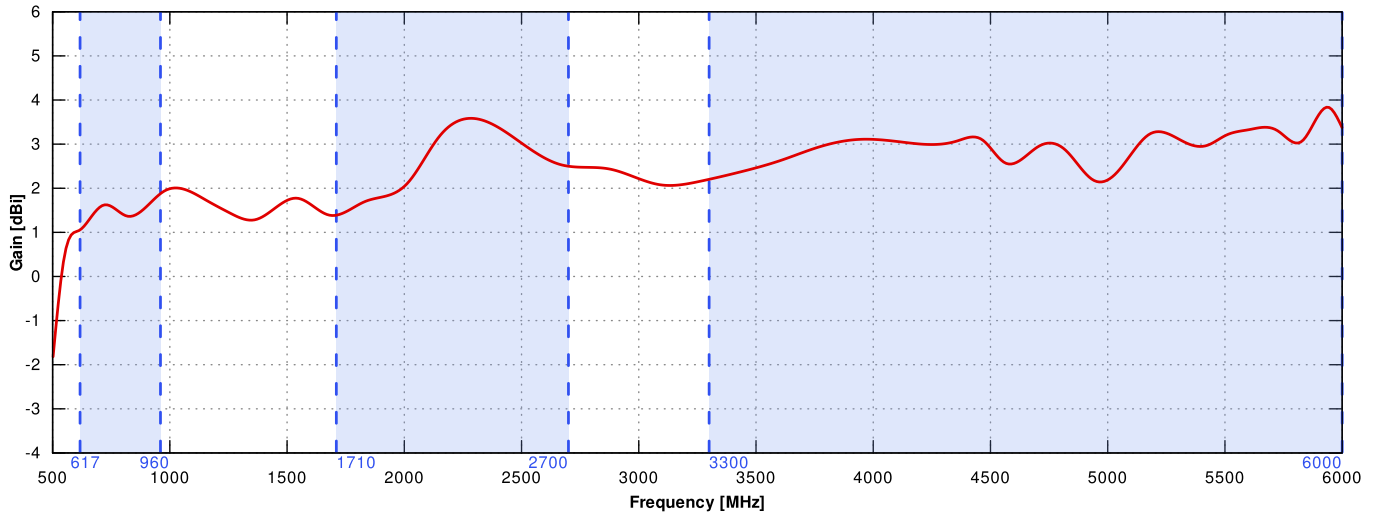
<b>ROBUSTEL</b>	EG5120, R5010, R5020, R5020 Lite
<b>SEMTECH (SIERRA WIRELESS)</b>	AirLink M690 5G, AirLink XR60
<b>SIEMENS</b>	6GK5853-2EA00-2DA1
<b>TELTONIKA</b>	RUTC50, RUTM30, RUTM31, RUTM51, RUTM54, RUTM55, RUTM56, RUTM59, RUTX50, TRB500, TRB501
<b>WAVETEL</b>	W4600-NR 5G, W4A00 5G, WNR320 5G, WNR340 5G
<b>WLINK</b>	G230, G530, G530
<b>ZYXEL</b>	Nebula FWA510
<b>OTHER</b>	4 * SMA

## PLOTS

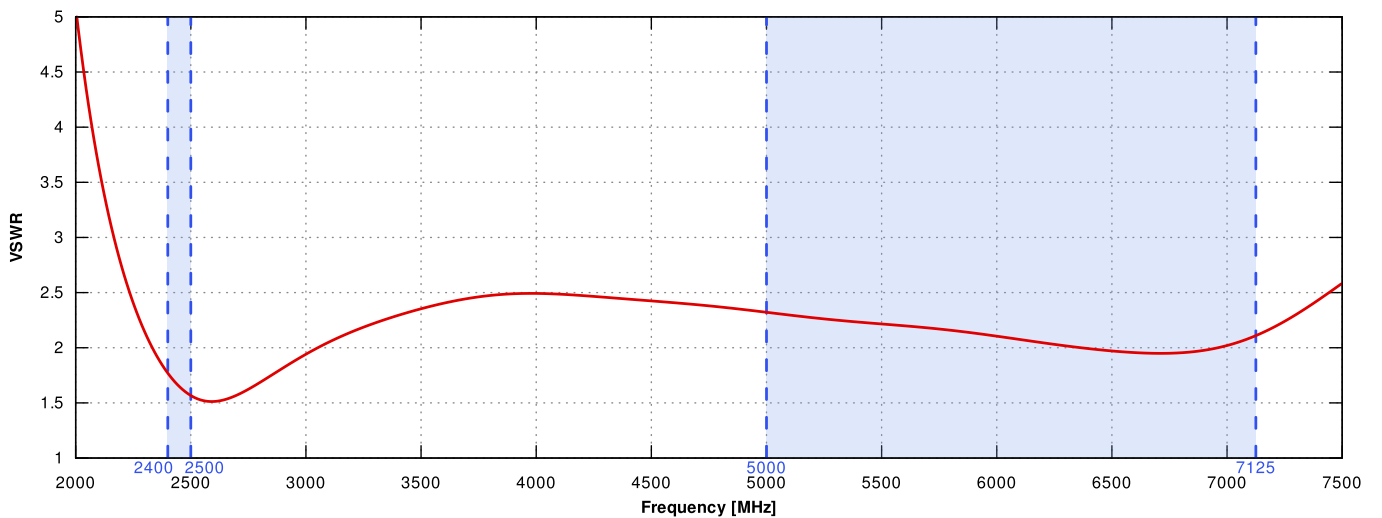
### 5G/LTE VSWR



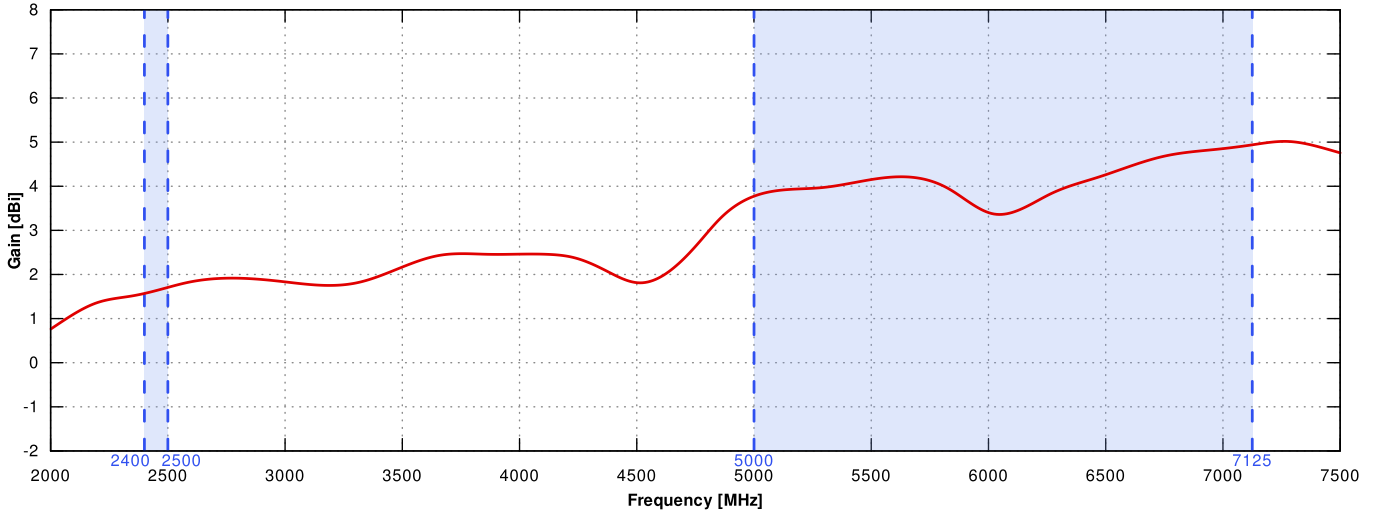
5G/LTE GAIN



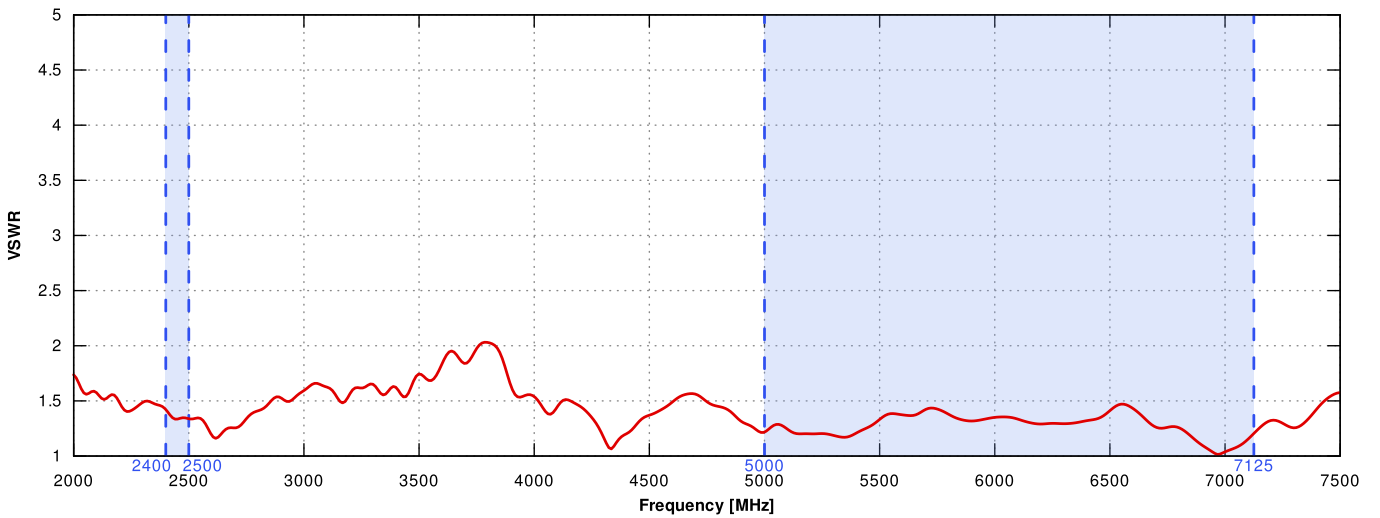
WiFi - X VSWR



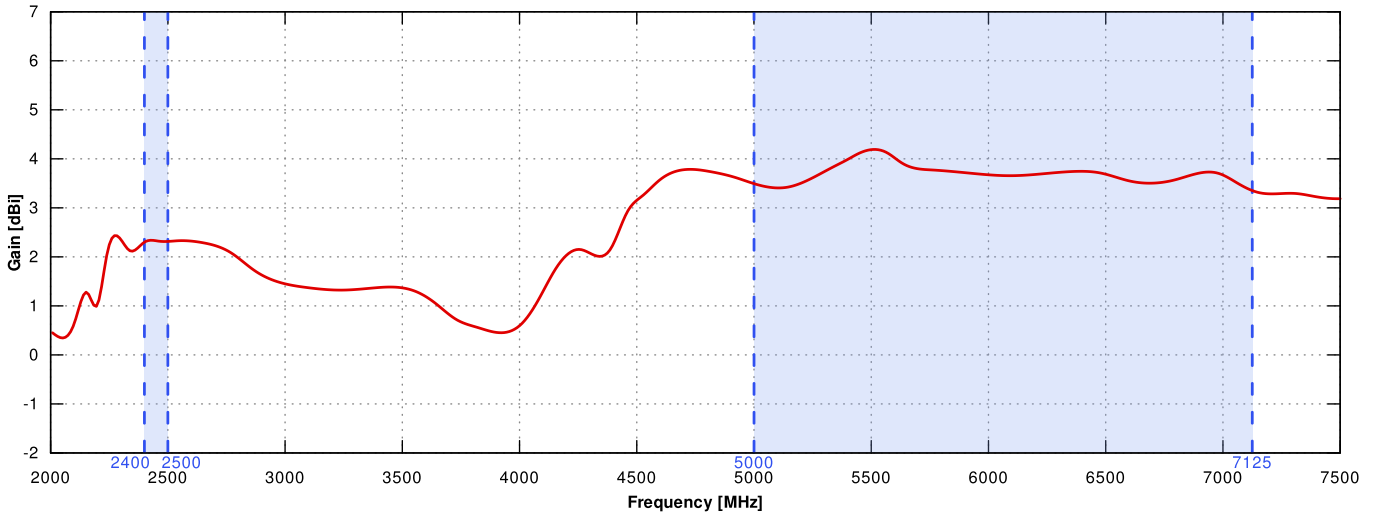
### WiFi - X GAIN



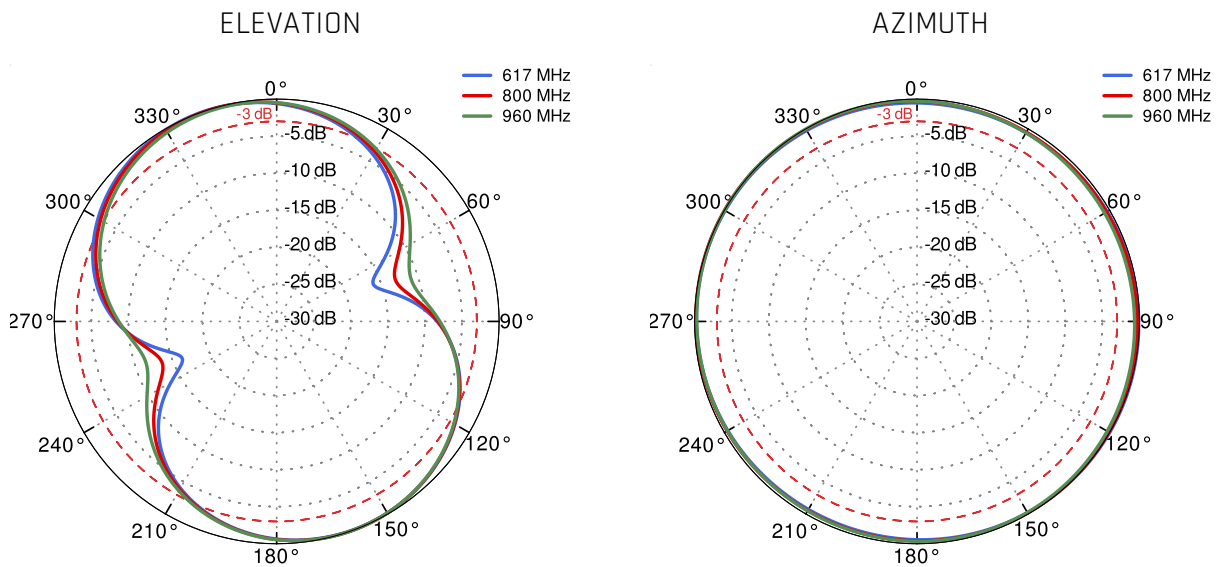
### WiFi - V VSWR



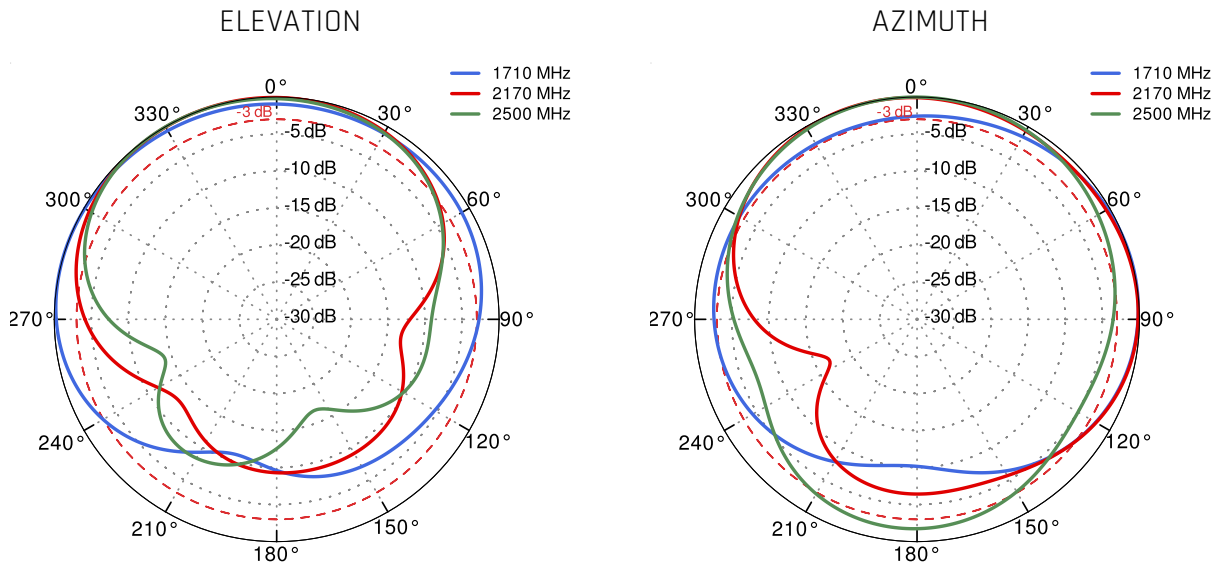
WiFi - V GAIN



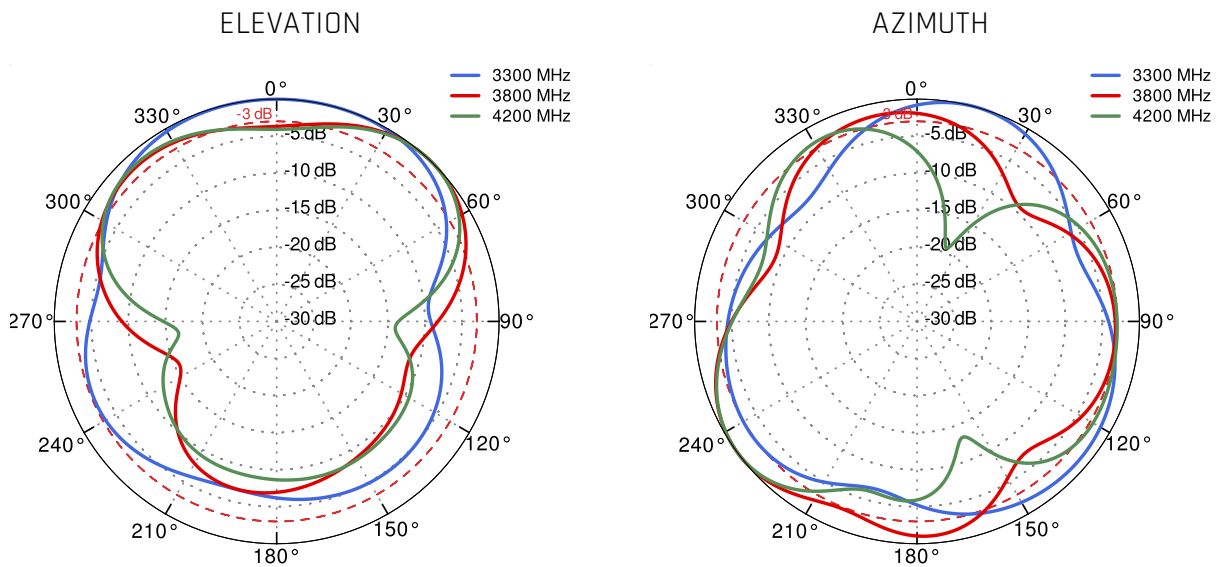
5G/LTE from 617MHz to 960MHz



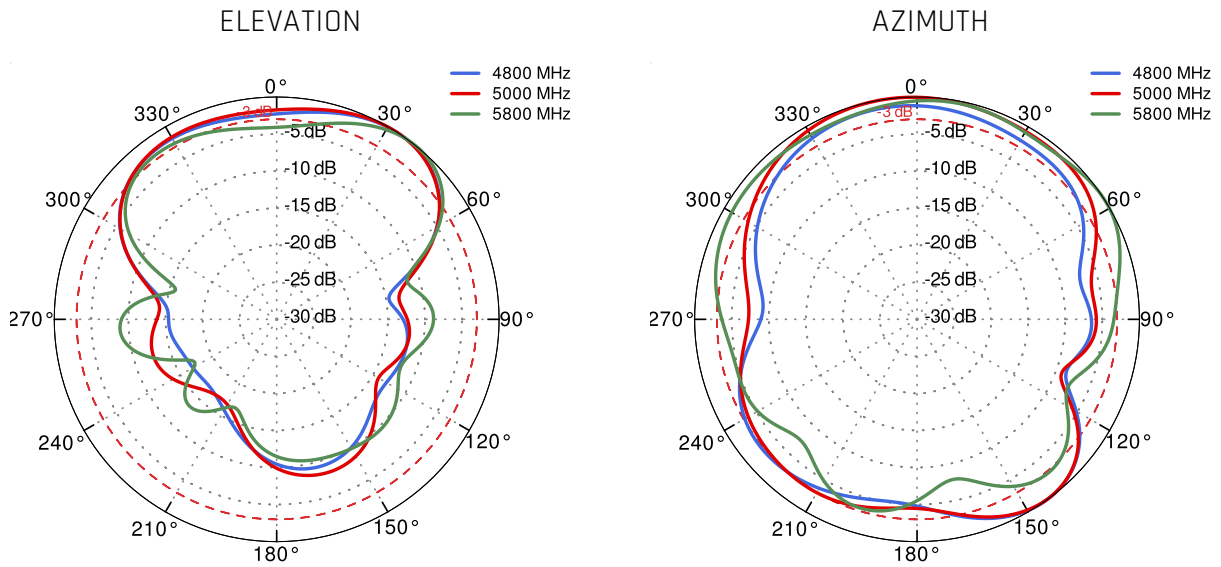
5G/LTE from 1.71GHz to 2.5GHz



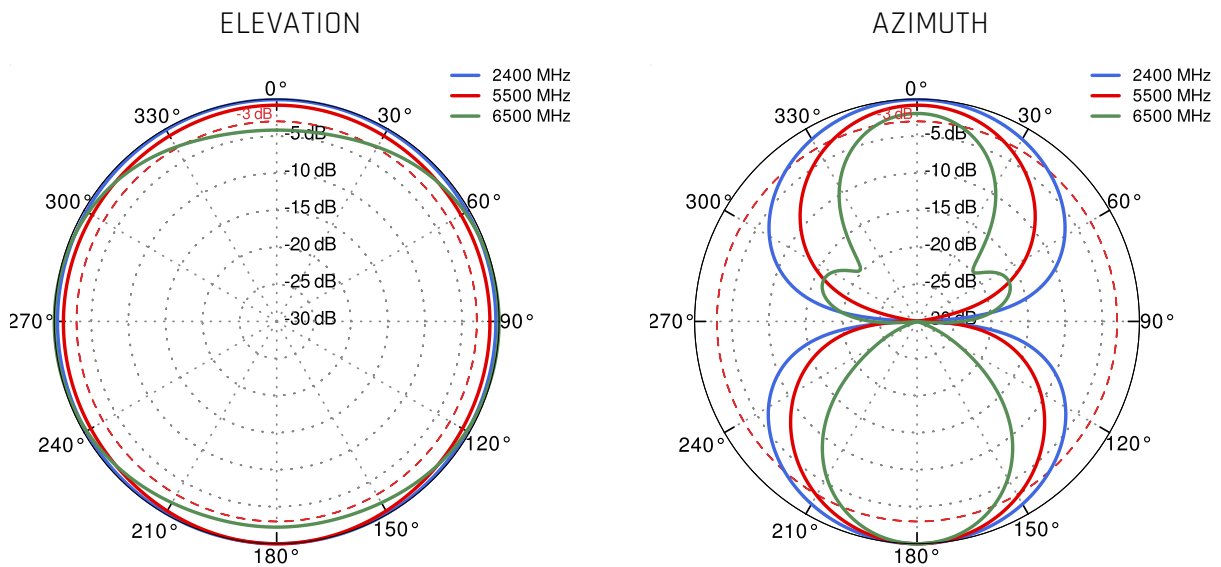
5G/LTE from 3.3GHz to 4.2GHz



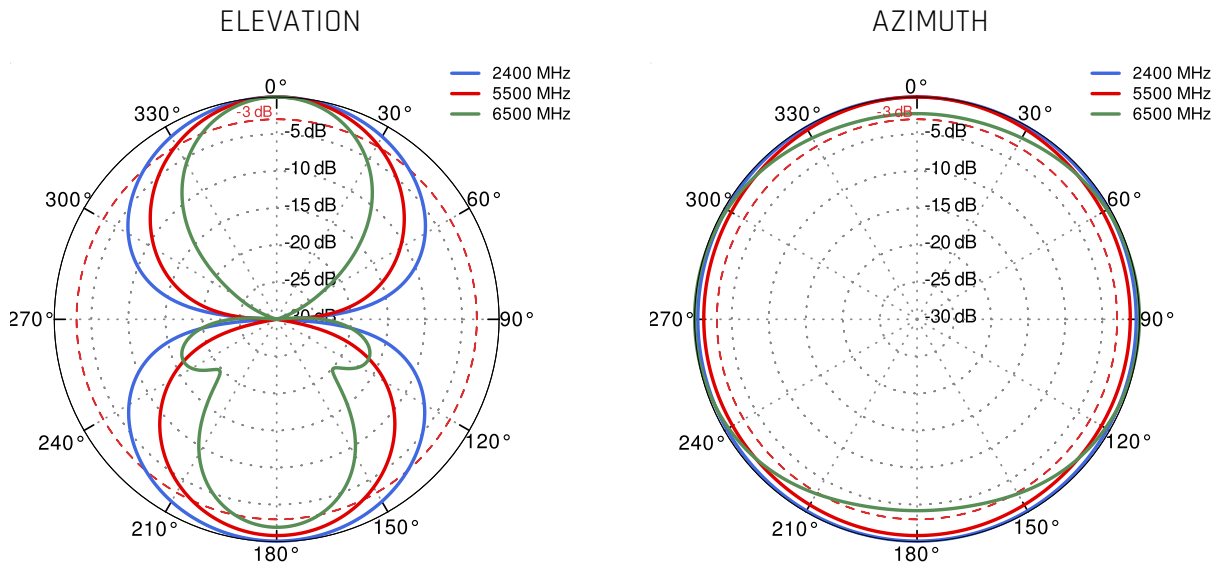
5G/LTE from 4.8GHz to 5.8GHz



Wi-Fi X Port 1 From 2.4 GHz to 6.5 GHz



## Wi-Fi X Port 2 From 2.4 GHz to 6.5 GHz



## Wi-Fi V From 2.4 GHz to 6.5 GHz

