

# 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.

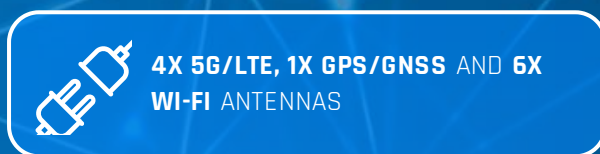
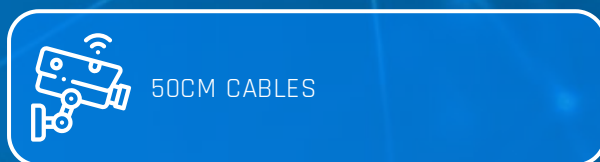
It covers a wide range from **580 to 6350 MHz** for 5G/LTE bands and additionally dual-band Wi-Fi 6e antennas provide concurrent **2.4 GHz and 5 to 7.2 GHz**.

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>MAX. 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 Ω
<b>MAX INPUT POWER</b>	50W
<b>DC GROUND</b>	Yes

## **5G/LTE 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

**SUPPORTED 5G BANDS**

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

**VSWR**

<2.50, max <3.00

**BEAMWIDTH**

360°/35° ±5°

**POLARIZATION**

Vertical

**IMPEDANCE**

50 Ω

 **MECHANICAL SPECIFICATION****MATERIAL**

ABS

**CONNECTOR**

6xRPSMA & 5xSMA

**OUTER DIMENSIONS**

160 x 160 x 90 mm  
6.3 x 6.3 x 3.54 inch

**WEIGHT**

1.5 kg

**OPERATING TEMPERATURE**

-40°C to 80°C  
-40°F to 176°F

**CABLE TYPE**

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

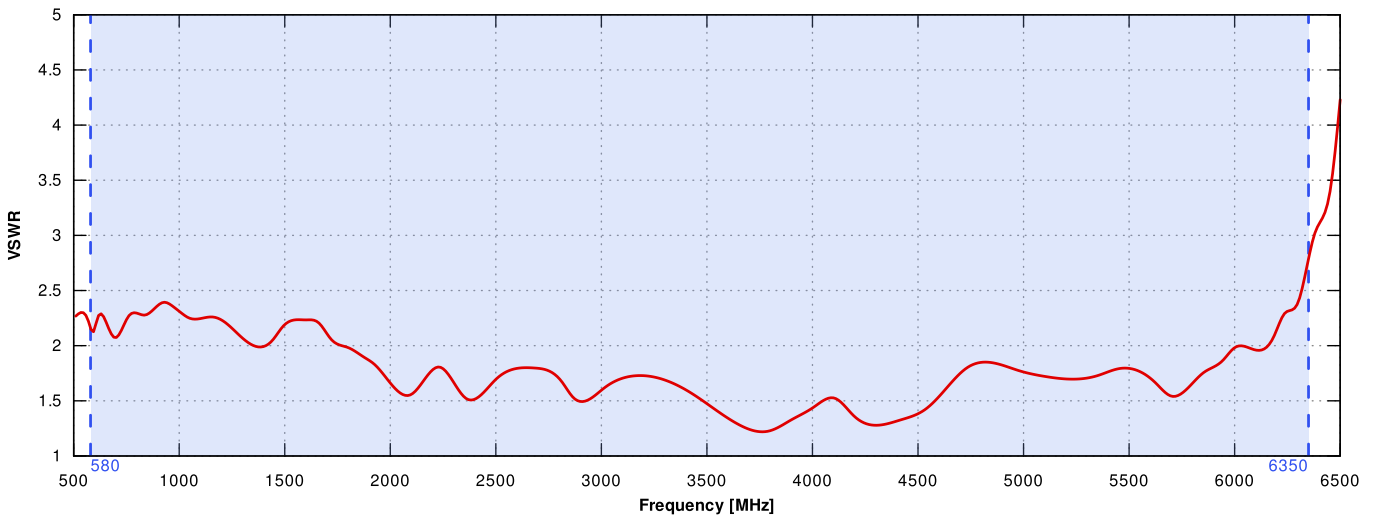
VARIANT: ASL46G

<b>TELTONIKA</b>	CALYX, 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, IX25, IX40, TX64
<b>ENGENIUS</b>	ENH1350EXT, EWS850-FIT
<b>ERICSSON (CRADLEPOINT)</b>	E300, E3000, R1900, R2400, R980, W1850, W4005

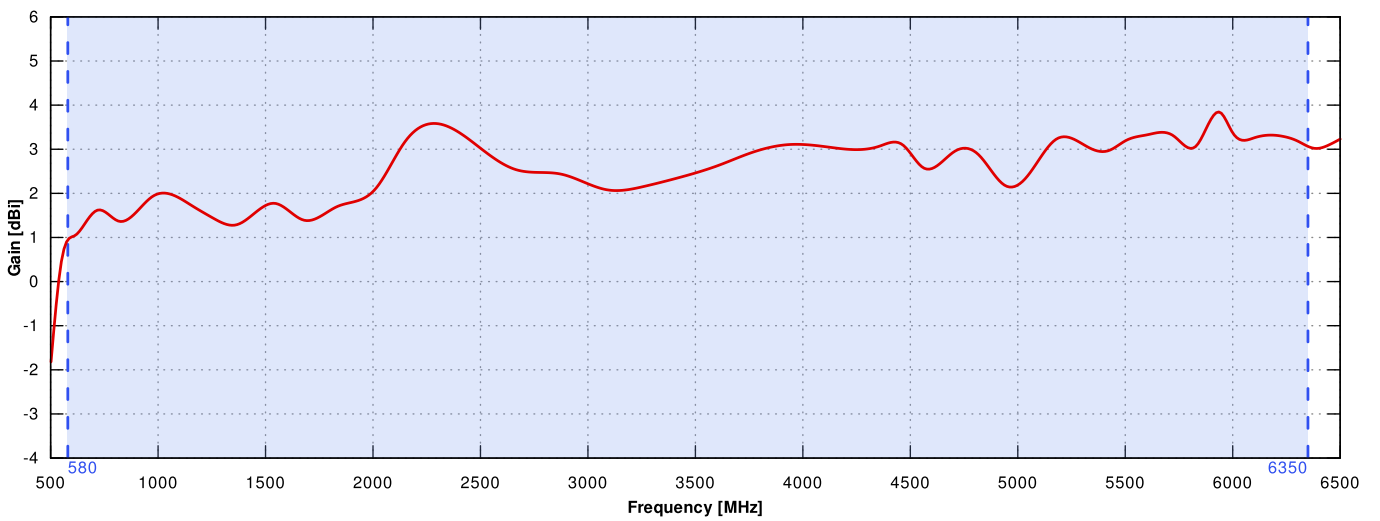
<b>FOUR-FAITH</b>	5G Industrial CPE F-NR200, 5G Industrial Router F-NR100, 5G SIM WiFi Router F-NR120, 5G Smart Light Pole Gateway F-G300, 5G WiFi Router with SIM Card Slot F-NR130, Smart Light Pole Gateway F-G310
<b>HUAWEI</b>	AirEngine 9700D-S
<b>MILESIGHT</b>	UF31, UR75
<b>PEPLINK</b>	Balance 310 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 MG90 5G, AirLink XR60
<b>SIEMENS</b>	6GK5853-2EA00-2DA1
<b>TELTONIKA</b>	CALYX, 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

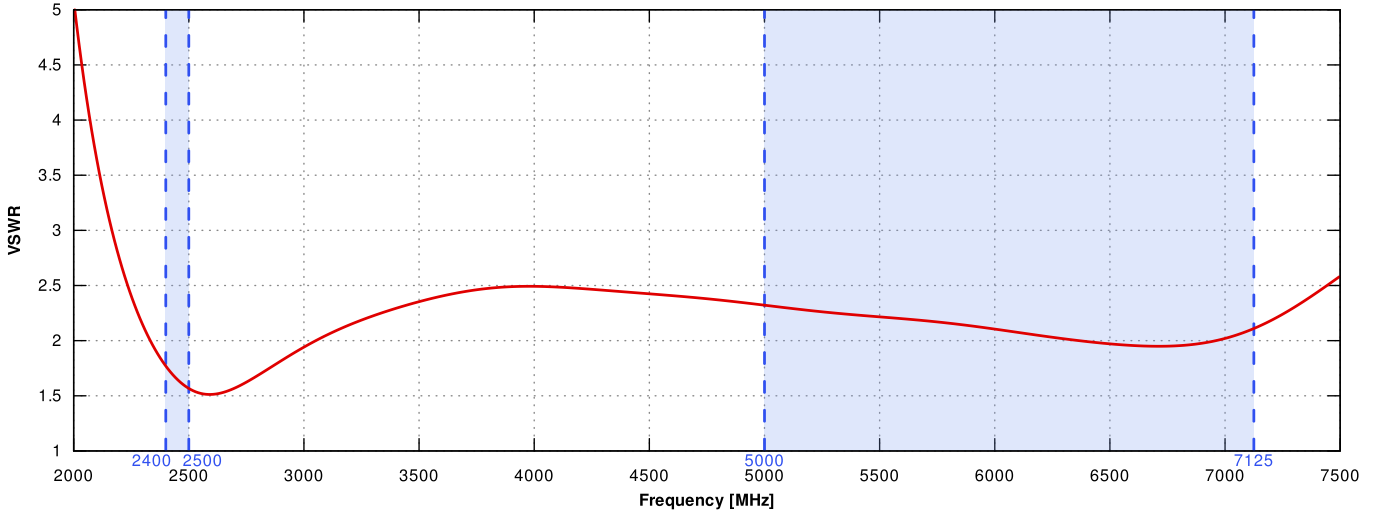
## 5G/LTE VSWR



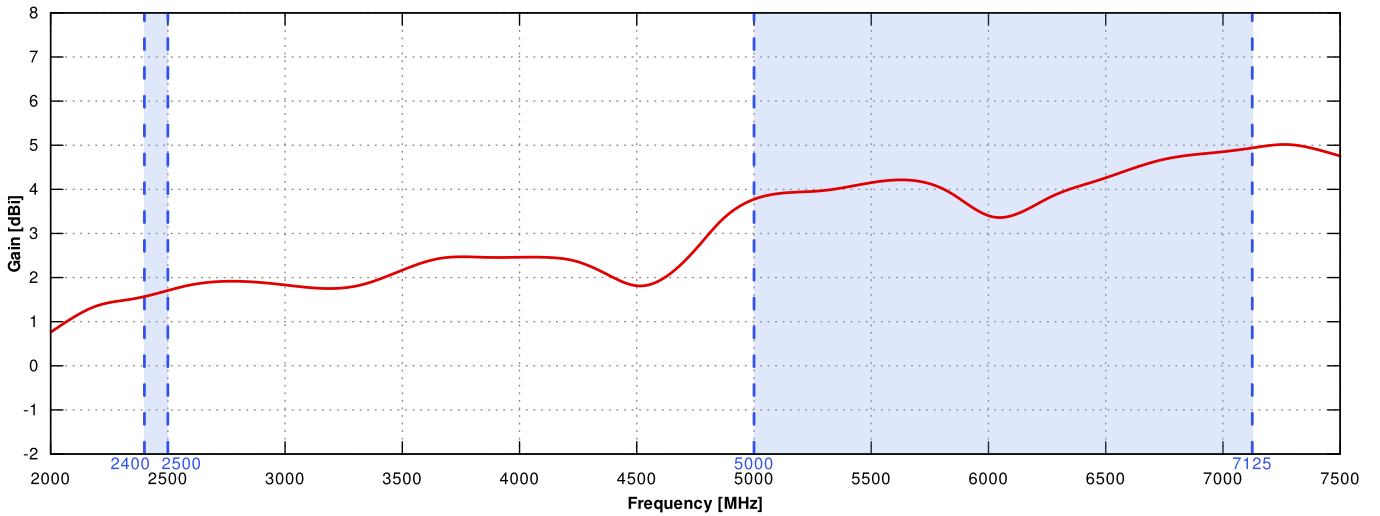
## 5G/LTE GAIN



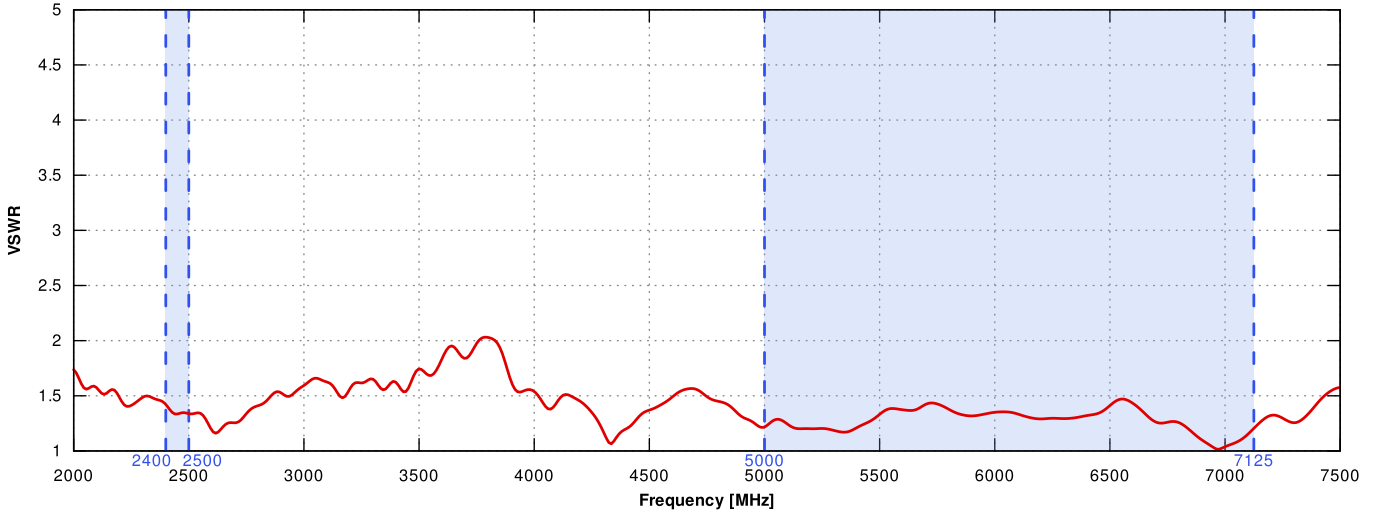
WiFi - X VSWR



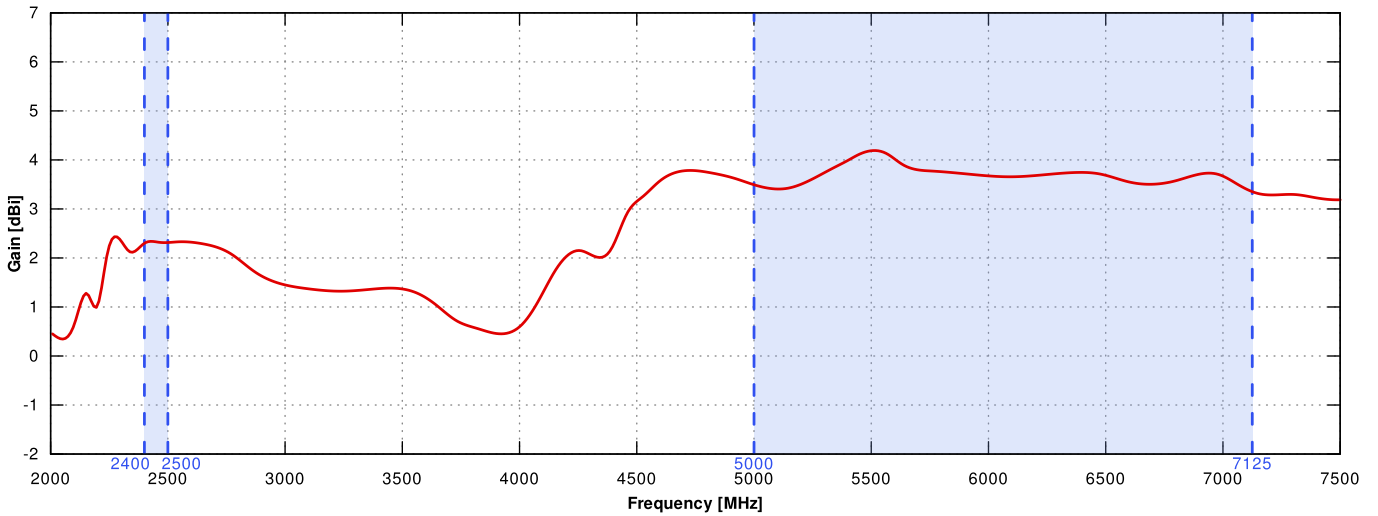
WiFi - X GAIN



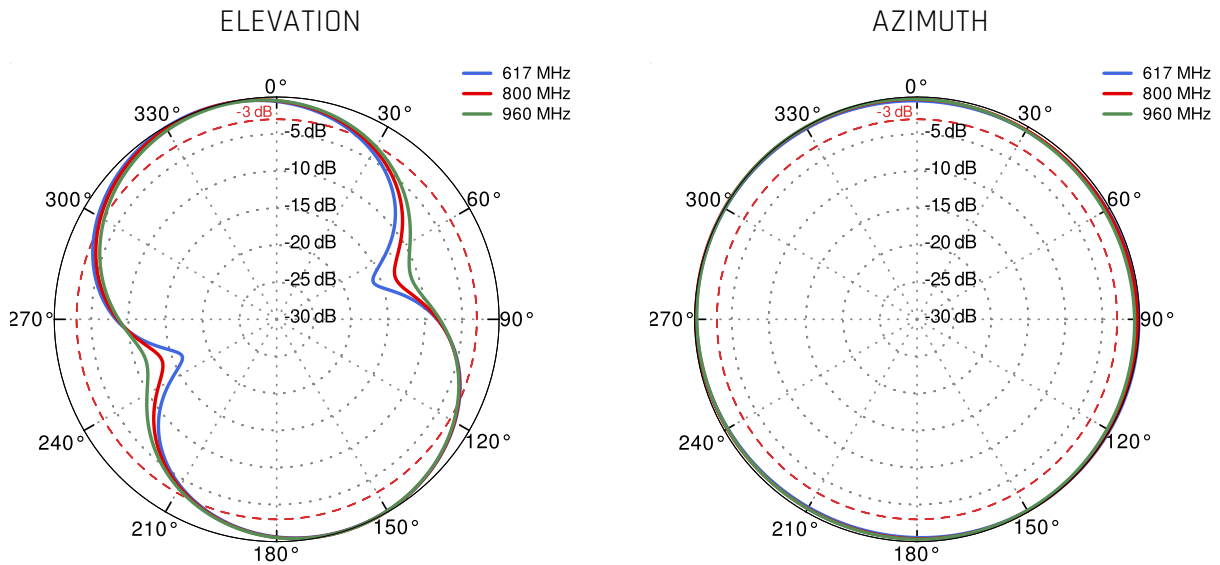
### WiFi - V VSWR



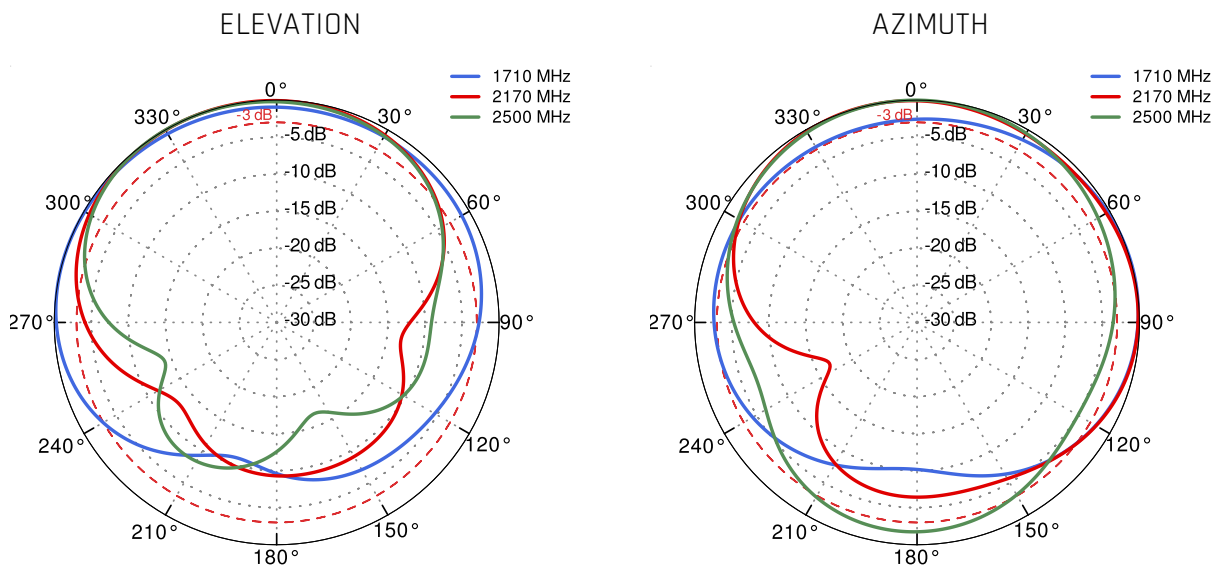
### WiFi - V GAIN



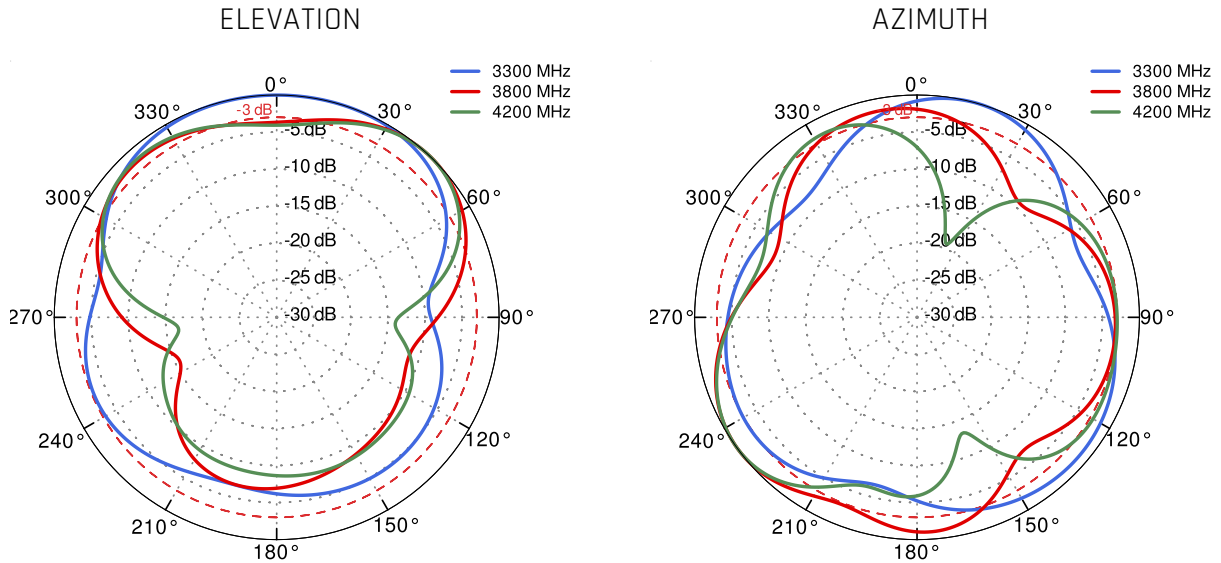
### 5G/LTE from 617MHz to 960MHz



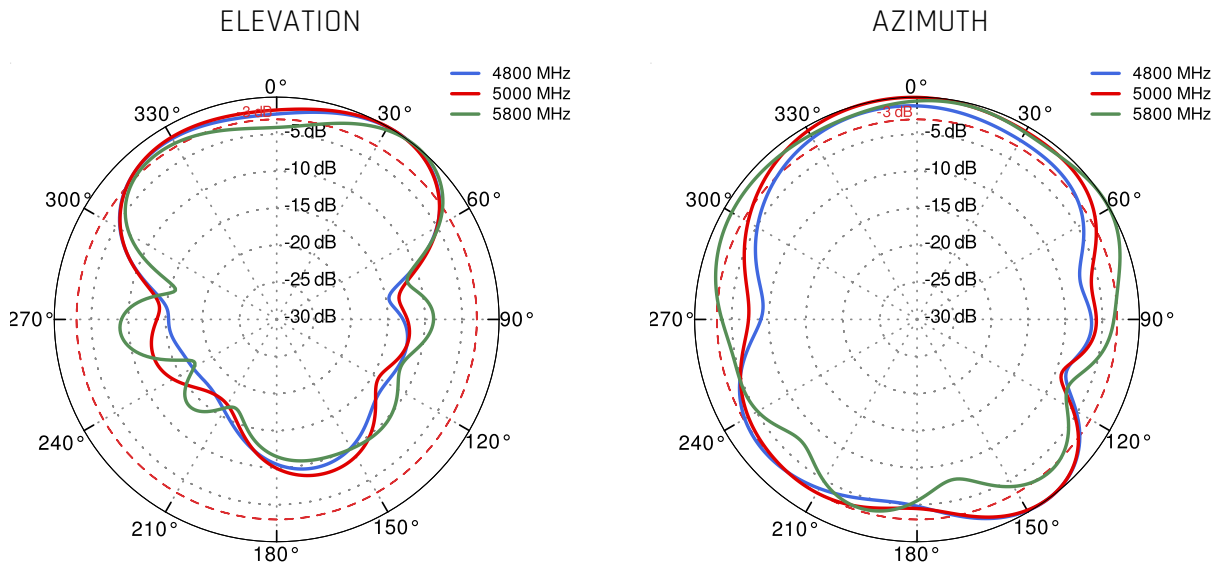
### 5G/LTE from 1.71GHz to 2.5GHz



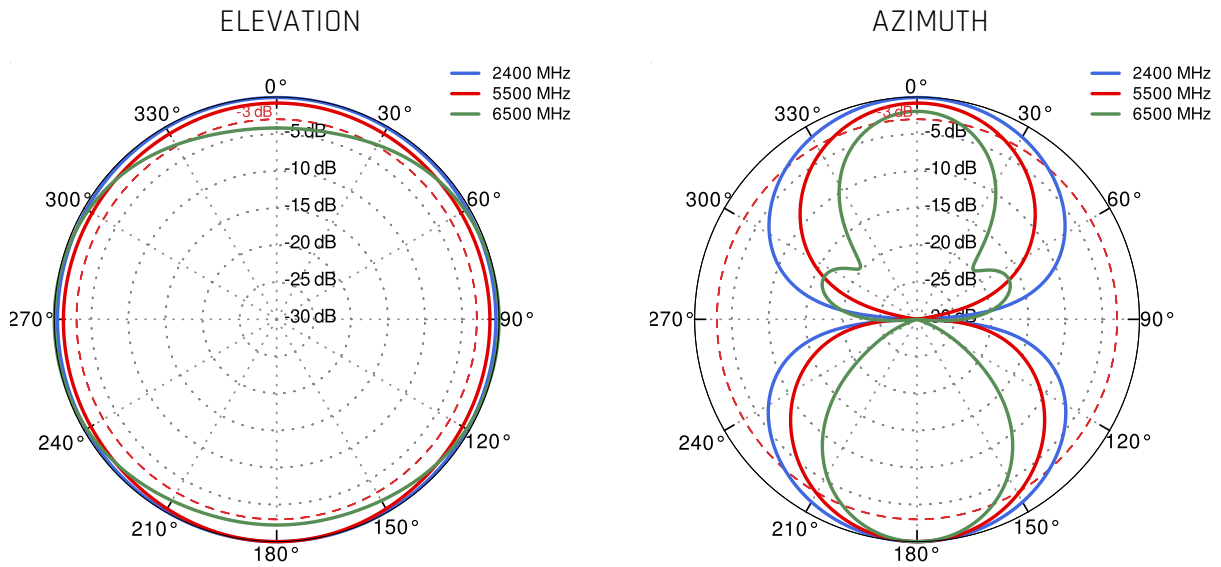
### 5G/LTE from 3.3GHz to 4.2GHz



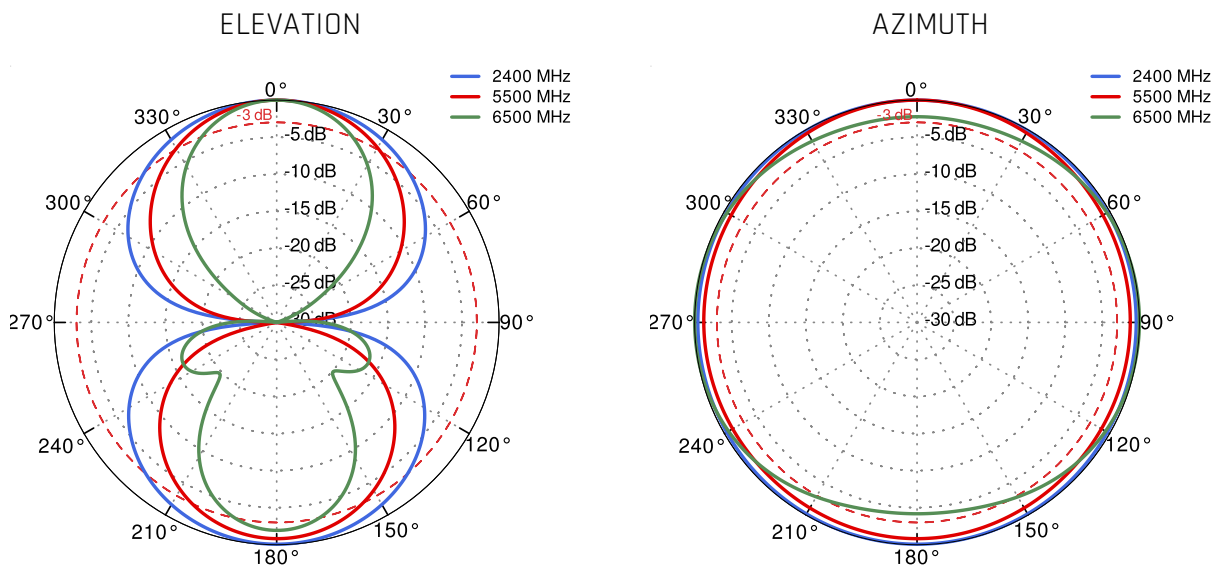
### 5G/LTE from 4.8GHz to 5.8GHz



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

