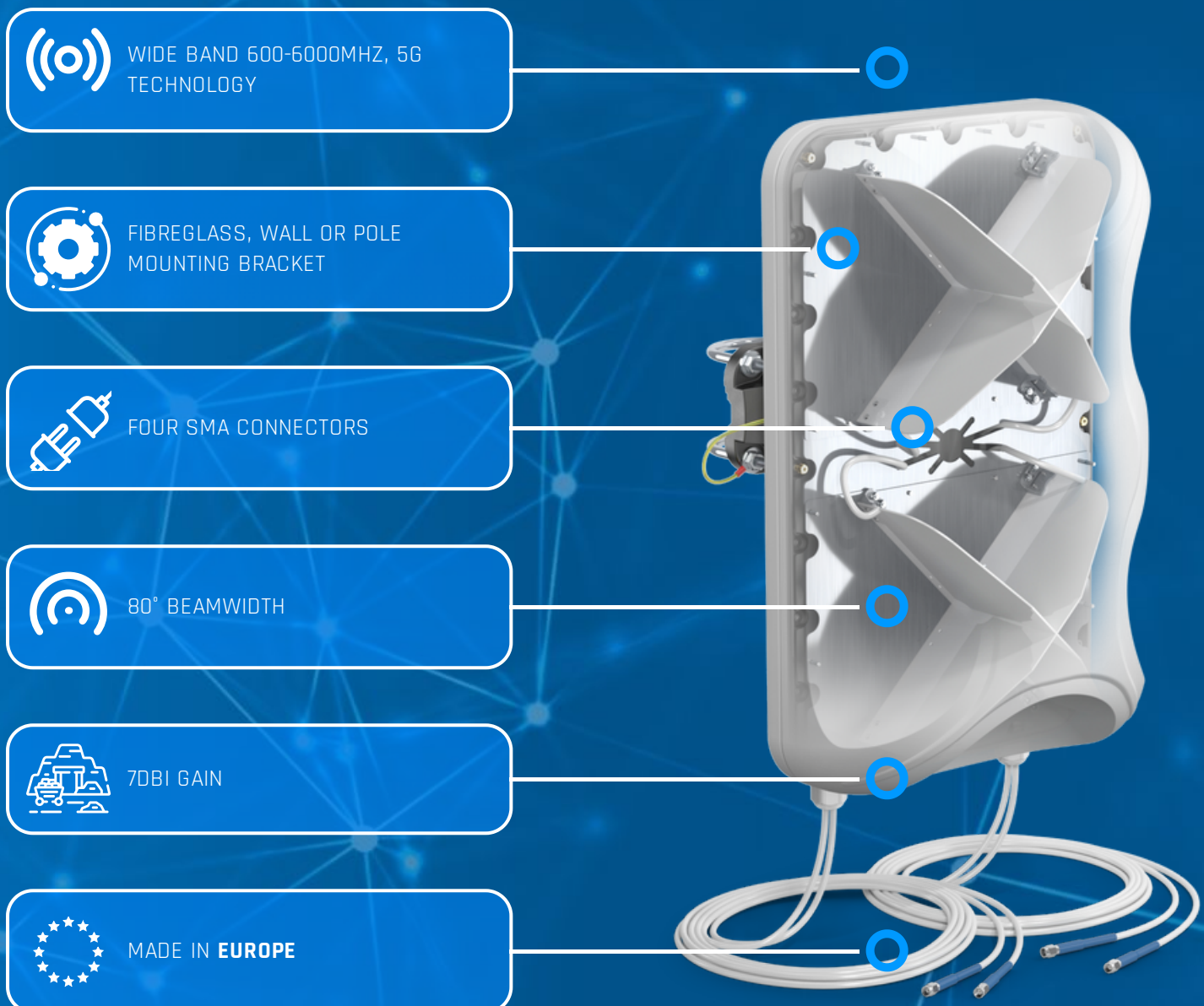
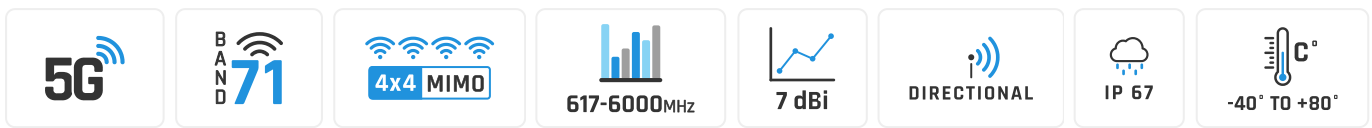


# QuPanel 5G/LTE Global MIMO 4x4

## Directional ultra wideband 5G/LTE MIMO 4x4 antenna

QuPanel **5G**/LTE directional MIMO 4x4 is ultra wideband 5G outdoor antenna. It's primary designed for LTE/5G/3G/2G devices which require high efficiency connections. The antenna covers many LTE bands including the new Extended LTE **Band 71** and frequencies: **600 - 6000MHz**. The mounting bracket allows the antenna to be installed on the pole or on the wall, as the client antenna to receive Internet by LTE/5G/3G/2G. It's ideal solution to use with all industrial and domestic 4x4 5G modems and routers like: Teltonika, Digi, Mikrotik, Robustel, Cisco, etc.



## 5G / LTE ANTENNA SPECIFICATION

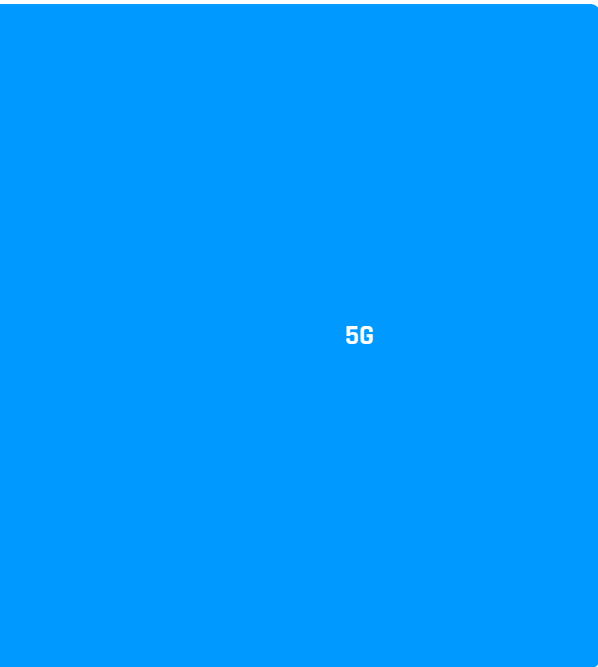
<b>FREQUENCY</b>	617 - 960 MHz 1.7 - 2.7 GHz 3.3 - 4.6 GHz 4.7 - 6.0 GHz
<b>GAIN</b>	617 - 960 MHz : 6 dBi 1.7 - 2.7 GHz : 7 dBi 3.3 - 4.6 GHz : 7 dBi 4.7 - 6.0 GHz : 5.5dBi
<b>SUPPORTED LTE BANDS</b>	1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 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, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256
<b>VSWR</b>	<2.00, max <3.00
<b>BEAMWIDTH</b>	80°/80° ±15°
<b>POLARIZATION</b>	X (±45degrees)
<b>IMPEDANCE</b>	50 Ω

## MECHANICAL SPECIFICATION

<b>MATERIALS</b>	ABS, aluminum, PTFE, fiberglass
<b>CONNECTOR TYPE</b>	SMA
<b>INGRESS PROTECTION</b>	IP67
<b>DIMENSIONS</b>	486.0 x 292.2 x 105.6 mm 19.13 x 11.50 x 4.16 inch
<b>WEIGHT</b>	2.8 kg 6.17 lbs
<b>OPERATING TEMPERATURE</b>	From -40°C to 80°C From -40°F to 176°F
<b>MAST DIAMETER</b>	25-60mm 0.98-2.36 inch

## FREQUENCY BANDS

<b>LTE / 4G</b>	1	2	3	4	5	7	8	6000 MHz	
	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		
	45	47	48	49	52	53	65		
	66	67	68	69	71	85	103		
	106								
	617 MHz								



	n1	n2	n3	n5	n7	n8	n12	
	n13	n14	n18	n20	n25	n26	n28	
	n29	n30	n34	n38	n39	n40	n41	
617 MHz	n46	n47	n48	n53	n65	n66	n67	6000 MHz
	n71	n77	n78	n79	n80	n81	n82	
	n83	n84	n85	n86	n89	n90	n95	
	n97	n98	n100	n101	n256			

## COMPATIBLE ROUTERS

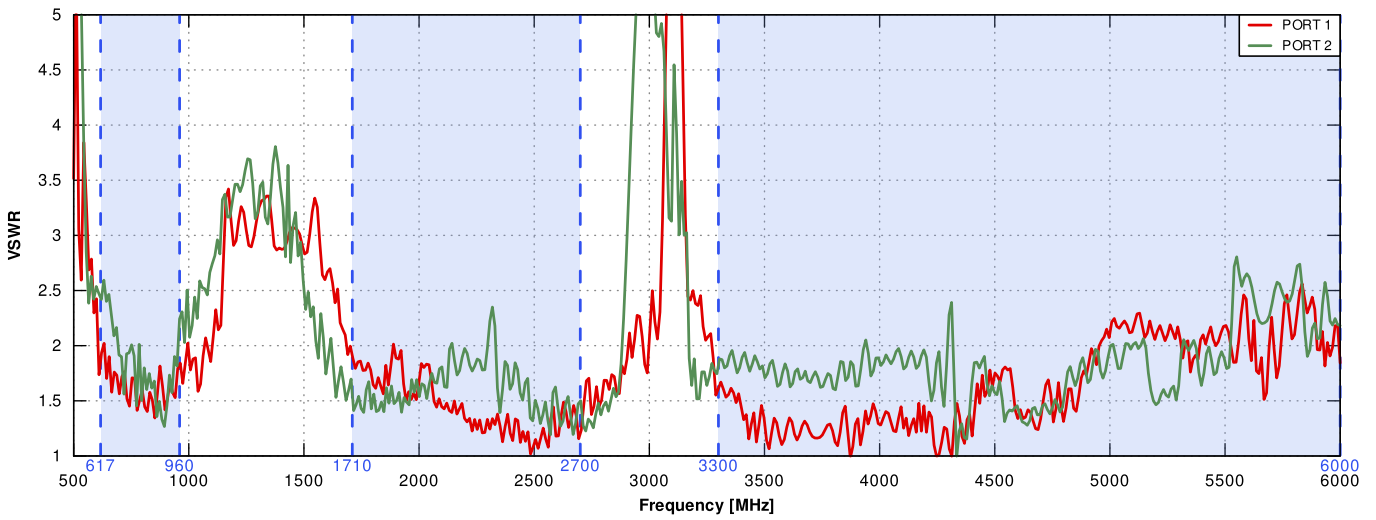
VARIANTS: AP5G4-G, AP5G4-G1

<b>TELTONIKA</b>	RUTX12, RUTX14, RUTX50, TRB500
<b>DIGI</b>	EX50, IX40, TX54 LTE-Advanced, TX64
<b>ROBUSTEL</b>	EG5120, EG5200, R2000, R5010, R5020, R5020 Lite
<b>COMSET</b>	CM550W, CM580W, CM685VX, CM770W-6, CM950W
<b>CRADLEPOINT</b>	E300, E3000, IBR1700, R1900, W1850, W4005
<b>DIGI</b>	EX50, IX40, TX54 LTE-Advanced, TX64
<b>FORTINET</b>	FEX-311F, FEX-311F
<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

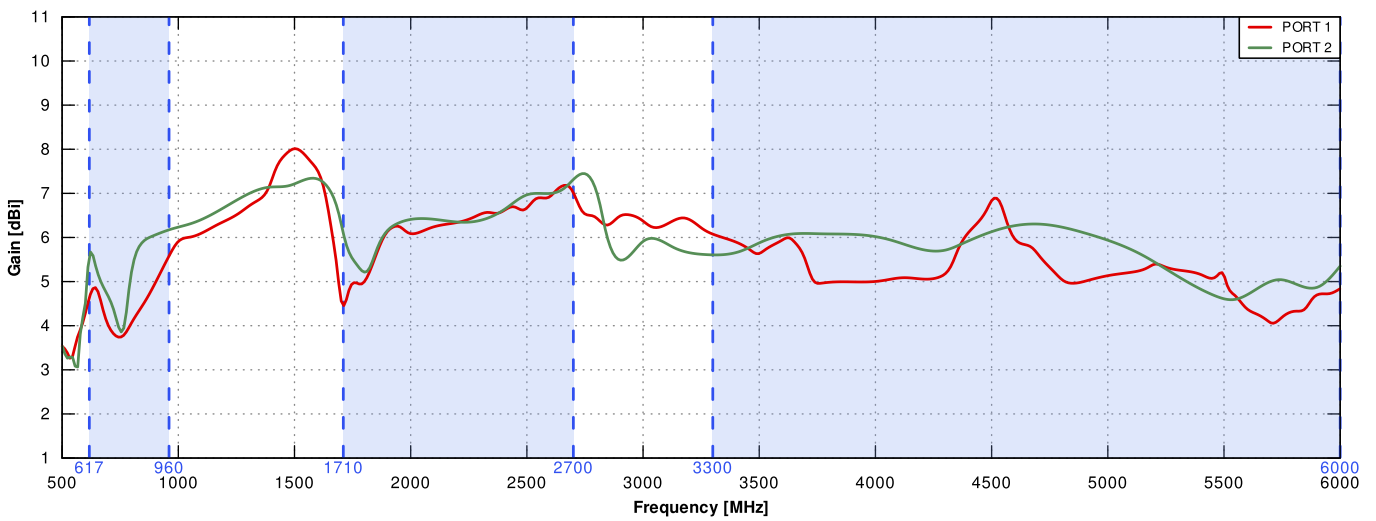
<b>MILESIGHT</b>	UF31, UR75
<b>PEPLINK</b>	Balance 310 5G, Balance 310 fiber 5G, BR1 Mini 5G, BR1 Pro (CAT-20), BR1 Pro CAT-20, BR2 PRO, MAX BR1 Pro 5G, MAX HD2, MAX HD2 Mini, MAX Transit, MAX Transit Duo Pro, UBR Plus
<b>PROROUTE</b>	H685 WRT M2M 5G Router, H900 5G Router
<b>ROBUSTEL</b>	EG5120, EG5200, R2000, R5010, R5020, R5020 Lite
<b>SIEMENS</b>	6GK5853-2EA00-2DA1
<b>SIERRA WIRELESS</b>	AirLink M690 5G
<b>TELTONIKA</b>	RUTX12, RUTX14, RUTX50, TRB500
<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

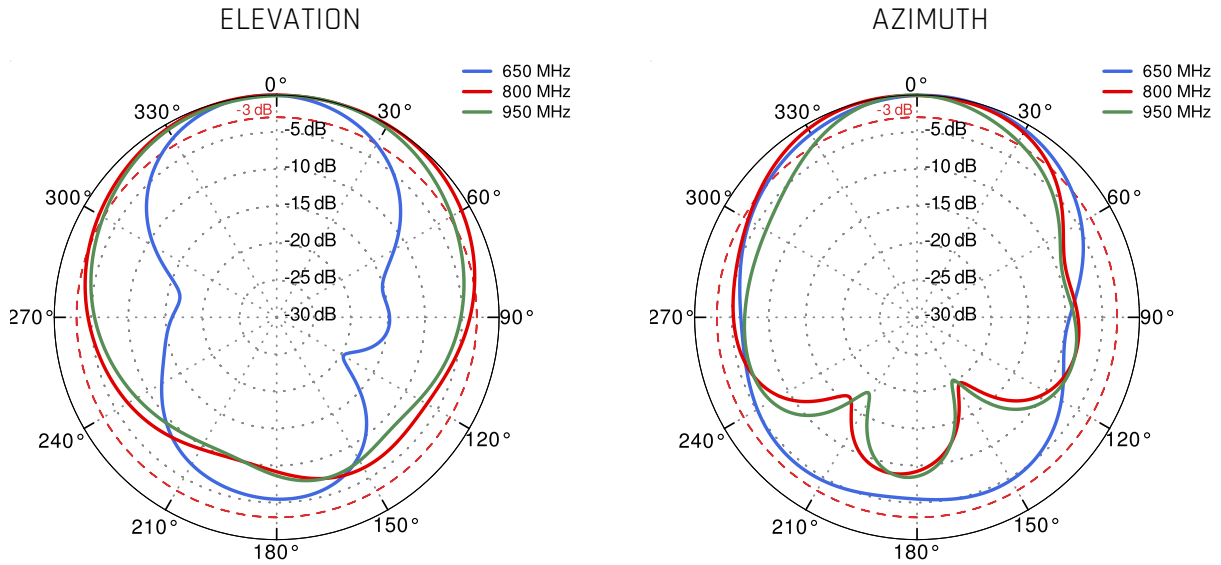
## VSWR



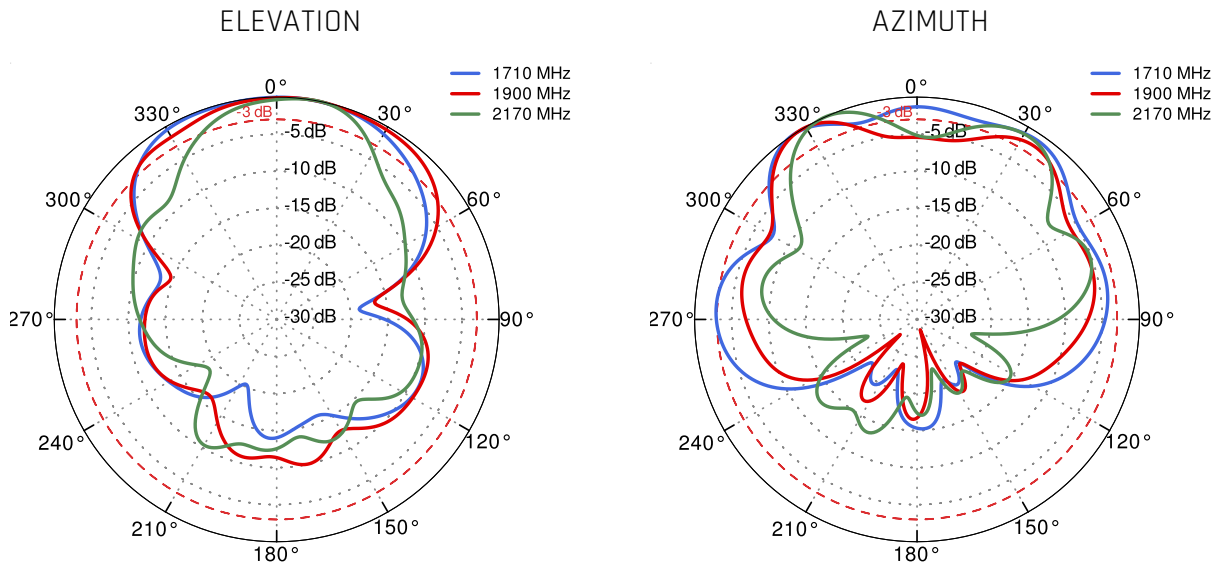
## Gain



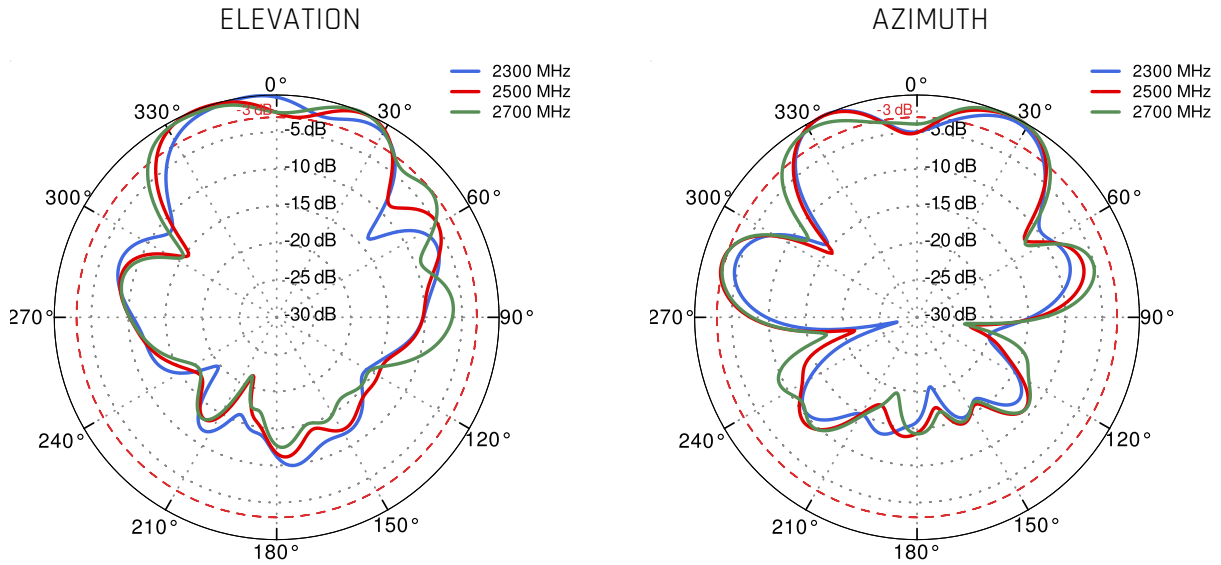
PORT 1 - 5G/LTE from 650MHz to 950MHz



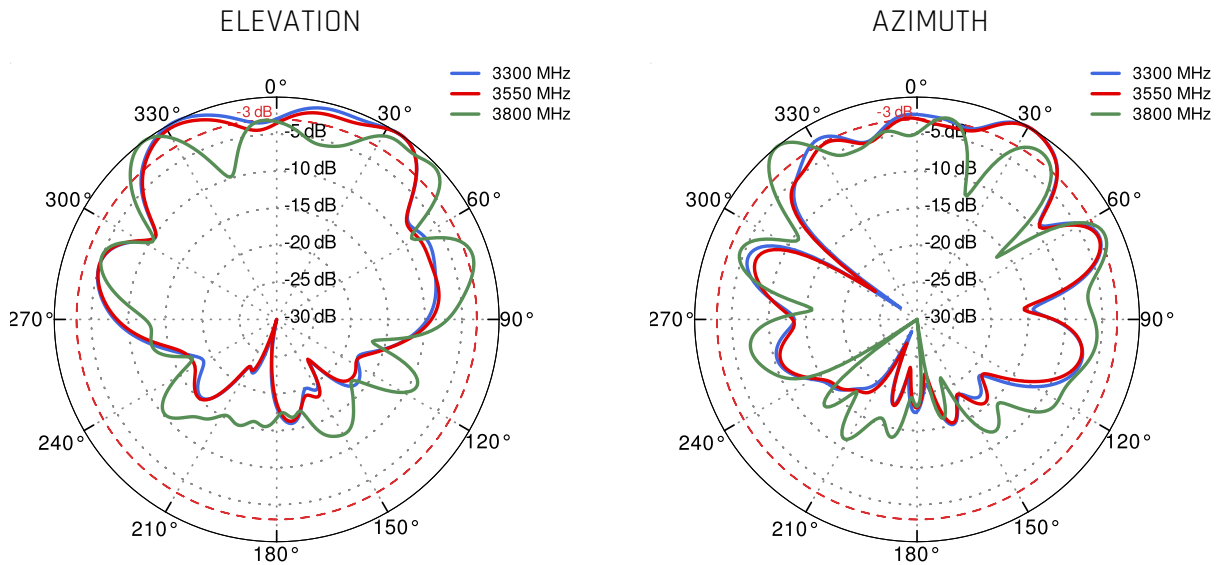
PORT 1 - 5G/LTE from 1.71GHz to 2.17GHz



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

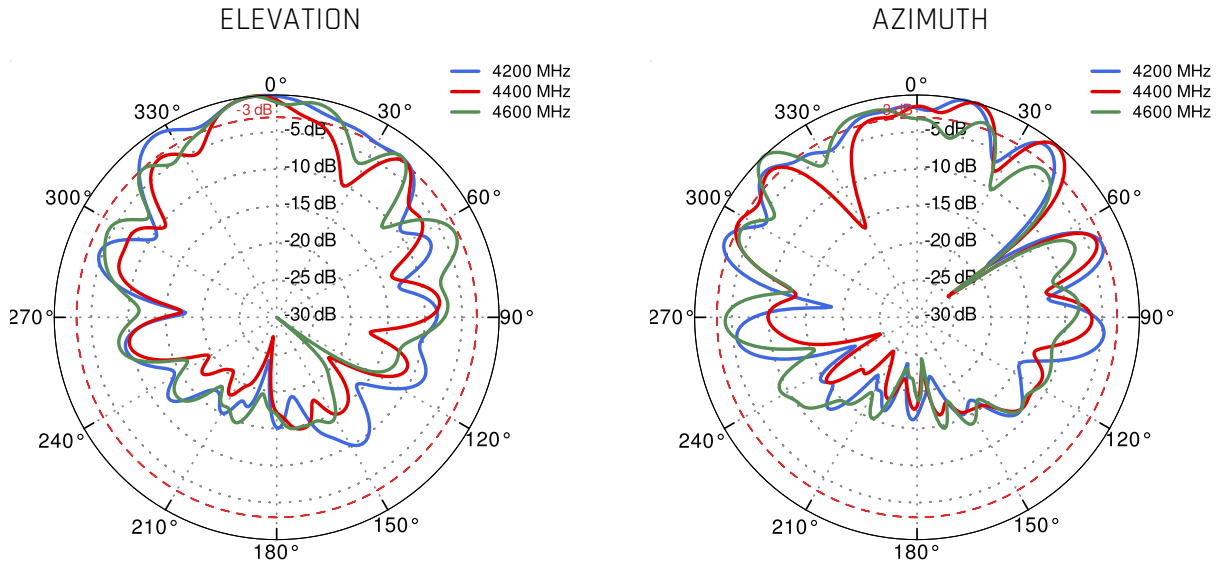


PORT 1 - 5G/LTE from 3.3GHz to 3.8GHz

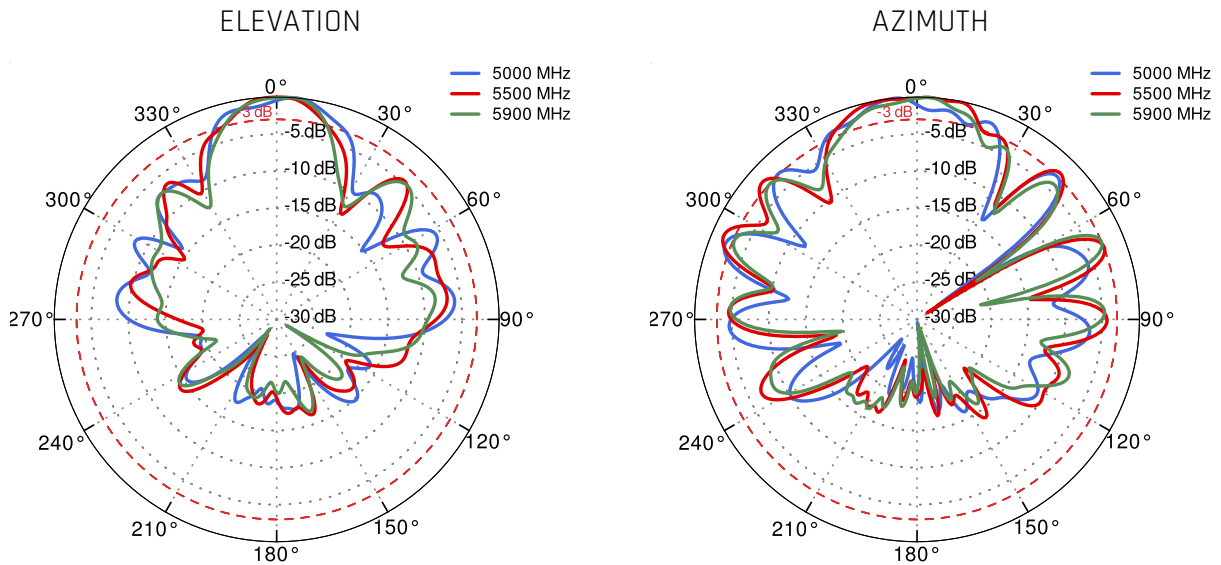




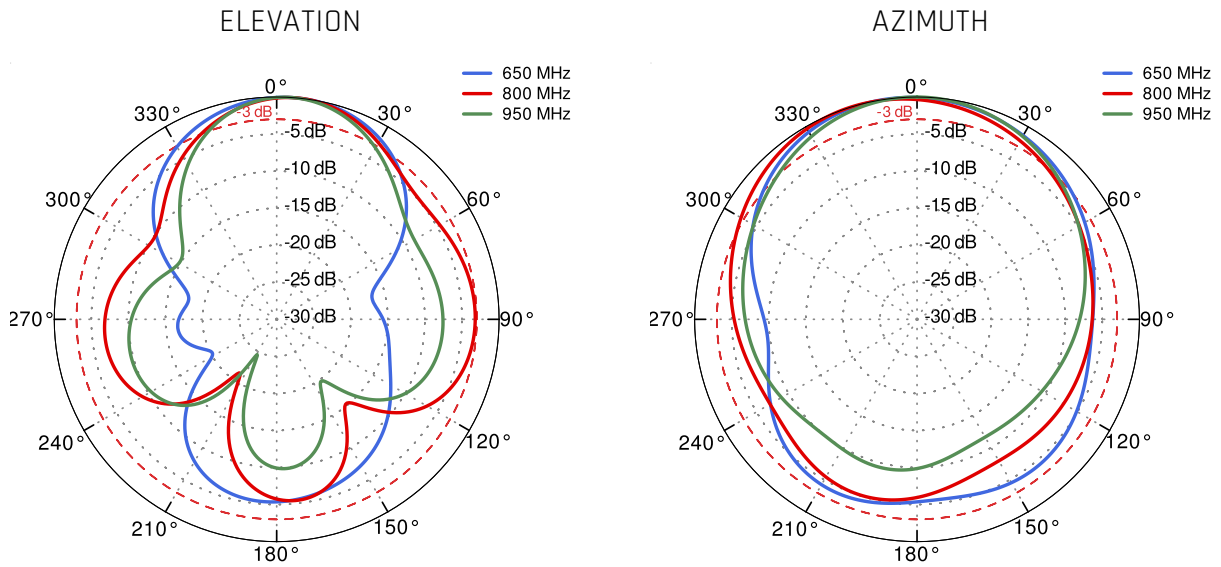
PORT 1 - 5G/LTE from 4.2GHz to 4.6GHz



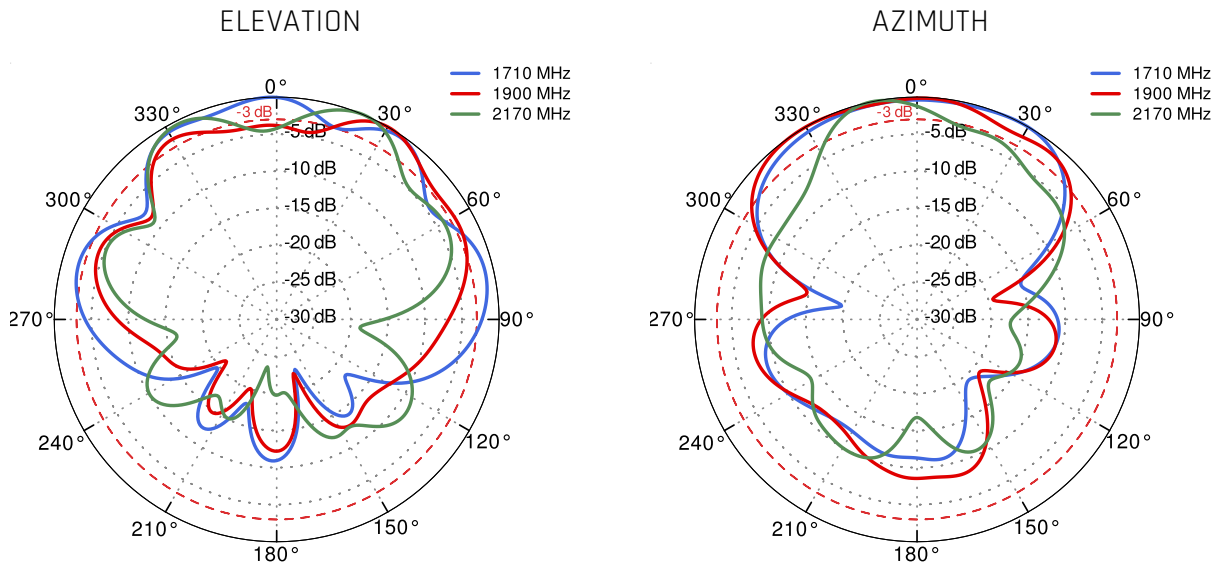
PORT 1 - 5G/LTE from 5.0GHz to 5.9GHz



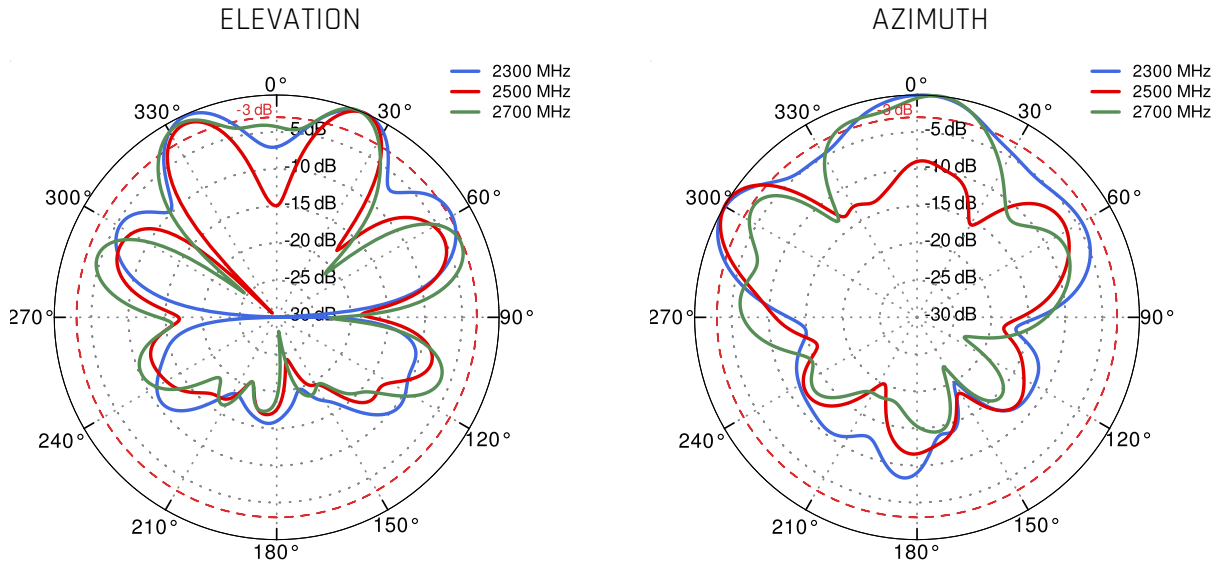
PORT 2 - 5G/LTE from 650MHz to 950MHz



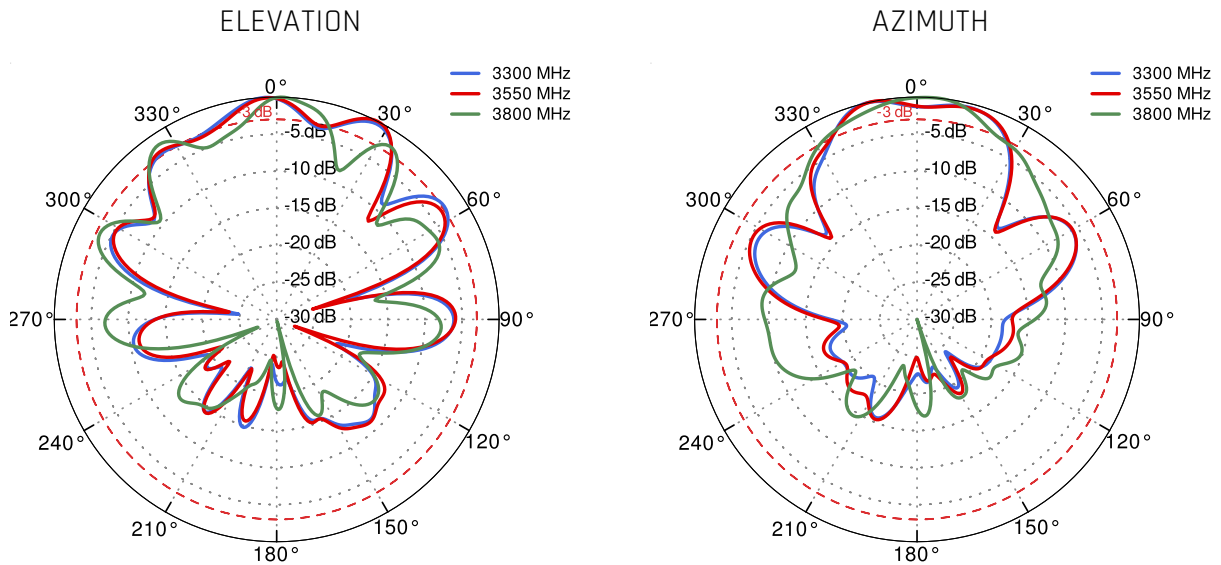
PORT 2 - 5G/LTE from 1.71GHz to 2.17GHz



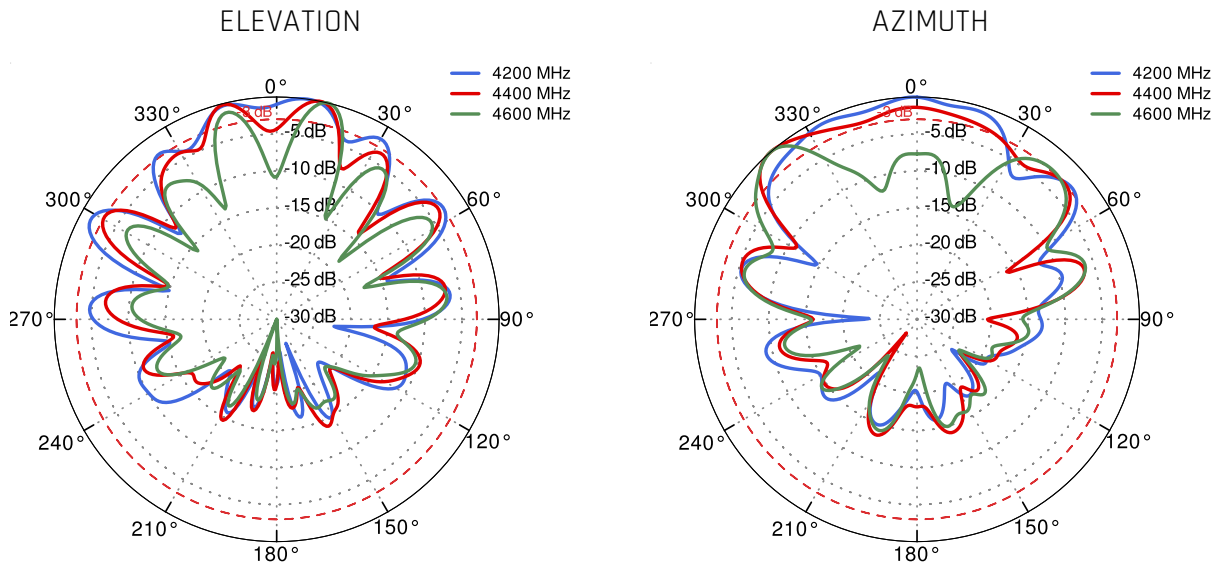
PORT 2 - 5G/LTE from 2.3GHz to 2.7GHz



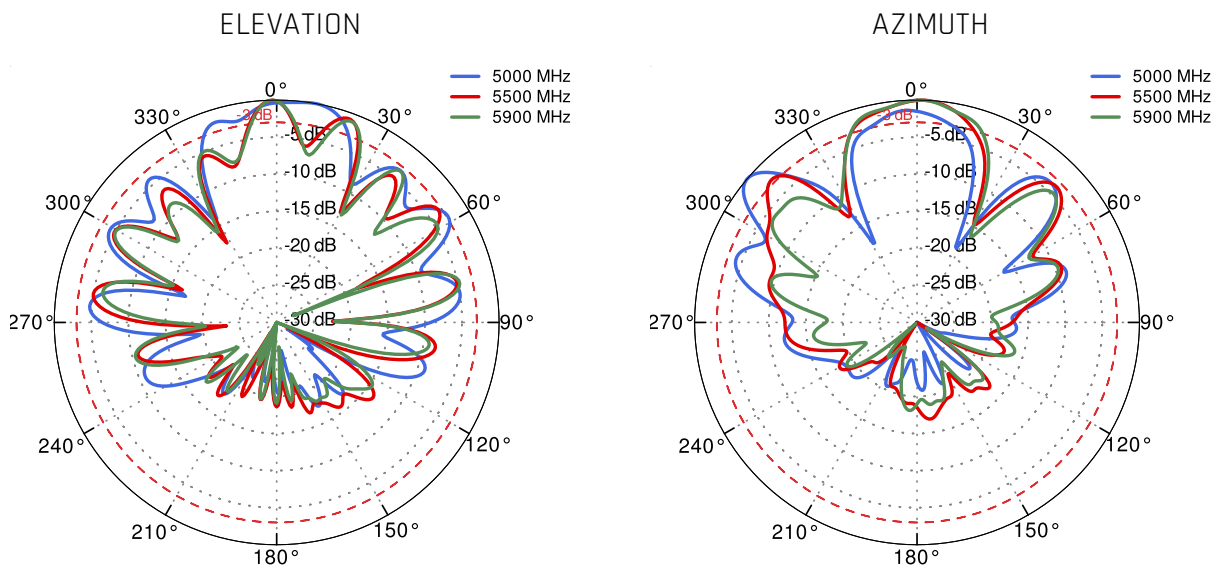
PORT 2 - 5G/LTE from 3.3GHz to 3.8GHz



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



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



## DIMENSIONS

