

# QuPanel LTE HP MIMO 4x4

## Directional High Power multiband LTE MIMO 4x4 antenna

QuPanel LTE directional MIMO 4x4 high gain antenna is predicted for 4G LTE high categories from cat 5 up to cat 19. The antenna improves the signal in rural/suburban and locations where the mobile signal is weak. That antenna is predicted to be installed on the buildings (on the pole or on the wall). Due to very wide working frequency range, the antenna is universal client for LTE bands like LTE700/800/1800/1900/2100/2300/2600. It's compatible with all MIMO 4x4 LTE modems and routers working in categories: cat 5, cat 6, cat 7, cat 9, cat 10, cat 11, cat 12, cat 13, cat 15, cat 16, cat 18, cat 19, cat 20.



## LTE ANTENNA SPECIFICATION

<b>FREQUENCY</b>	694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz
<b>GAIN</b>	694 - 960 MHz : 8 dBi 1.7 - 2.2 GHz : 7 dBi 2.2 - 2.7 GHz : 7 dBi
<b>SUPPORTED LTE/5G BANDS</b>	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 23, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 44, 53, 59, 62, 65, 66, 67, 68, 69, 85, n80, n81, n82, n83, n84, n86, n89, n90, n95
<b>VSWR</b>	<1.70, max <2.00
<b>BEAMWIDTH</b>	70° /70° ±15°
<b>POLARIZATION</b>	Dual polarized X-Pol
<b>IMPEDANCE</b>	50 Ω
<b>FRONT-TO-BACK</b>	>10 dB

## MECHANICAL SPECIFICATION

<b>MATERIALS</b>	ABS, aluminum, PTFE, Fiberglass
<b>CONNECTOR TYPE</b>	4x SMA plug
<b>INGRESS PROTECTION</b>	IP67
<b>DIMENSIONS</b>	392 x 392 x 99 mm 15.43 x 15.43 x 3.90 inch
<b>WEIGHT</b>	3.7 kg 8.16 lbs
<b>OPERATING TEMPERATURE</b>	From -40°C to 80°C From -40°F to 176°F
<b>CABLE LENGTH</b>	5m (P/N: APLM4-H) or 10m (P/N: APLM4-H1)
<b>CABLE TYPE</b>	LMR195 white
<b>MAST DIAMETER</b>	25-66mm 0.98-2.60 inch

# FREQUENCY BANDS

**LTE / 4G GSM**

617 MHz	5	6	8	12	13	14	17	960 MHz
	18	19	20	26	27	28	29	
	44	67	68	85	n81	n82	n83	
	n89							

**LTE / 4G UMTS**

1710 MHz	1	2	3	4	9	10	25	2170 MHz
	33	34	35	36	37	39	59	
	62	n80	n84	n86	n95			

**LTE / 4G WCS DARS**

2300 MHz	30	40						2400 MHz
-------------	----	----	--	--	--	--	--	-------------

**LTE / 4G**

2400 MHz	7	38	41	53	69	n90	2700 MHz
-------------	---	----	----	----	----	-----	-------------

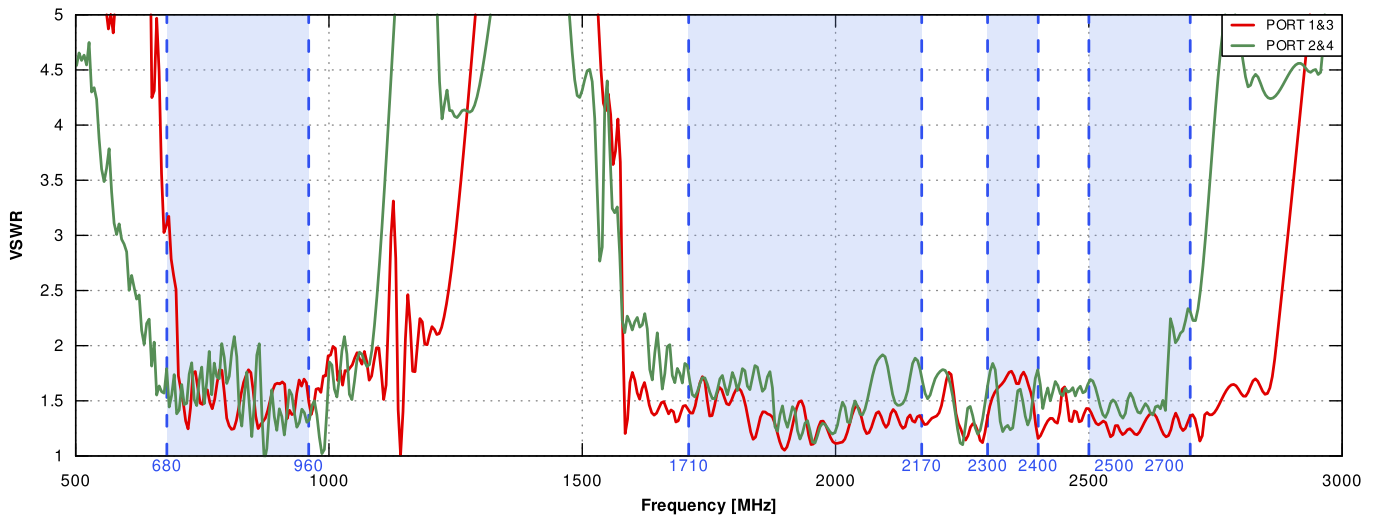
## **COMPATIBLE ROUTERS**

VARIANTS: APLM4-H, APLM4-H1

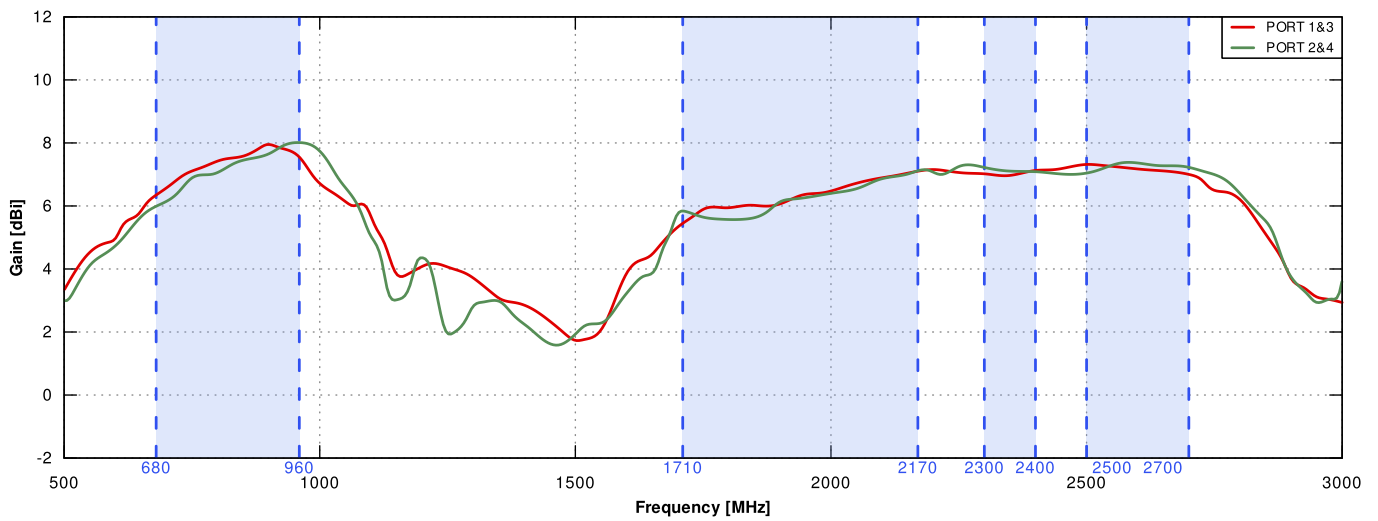
<b>TELTONIKA</b>	RUTC42, RUTX12, RUTX14
<b>ROBUSTEL</b>	EG5200, R2000
<b>CISCO</b>	CG418-E
<b>COMSET</b>	CM770W-6
<b>DIGI</b>	TX54 LTE-Advanced
<b>ERICSSON (CRADLEPOINT)</b>	IBR1700
<b>FORTINET</b>	FEX-311F, FEX-311F
<b>PEPLINK</b>	BR1 Pro (CAT-20), BR1 Pro CAT-20, MAX HD2, MAX HD2 Mini, MAX Transit, UBR Plus
<b>ROBUSTEL</b>	EG5200, R2000
<b>TELTONIKA</b>	RUTC42, RUTX12, RUTX14
<b>OTHER</b>	4 * SMA

# PLOTS

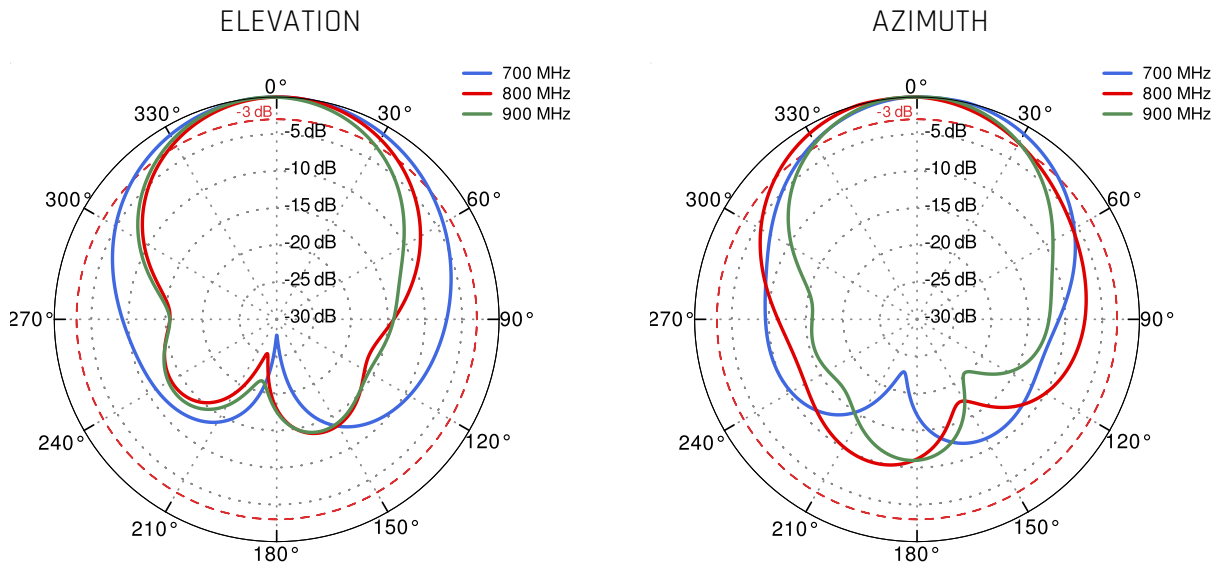
## VSWR



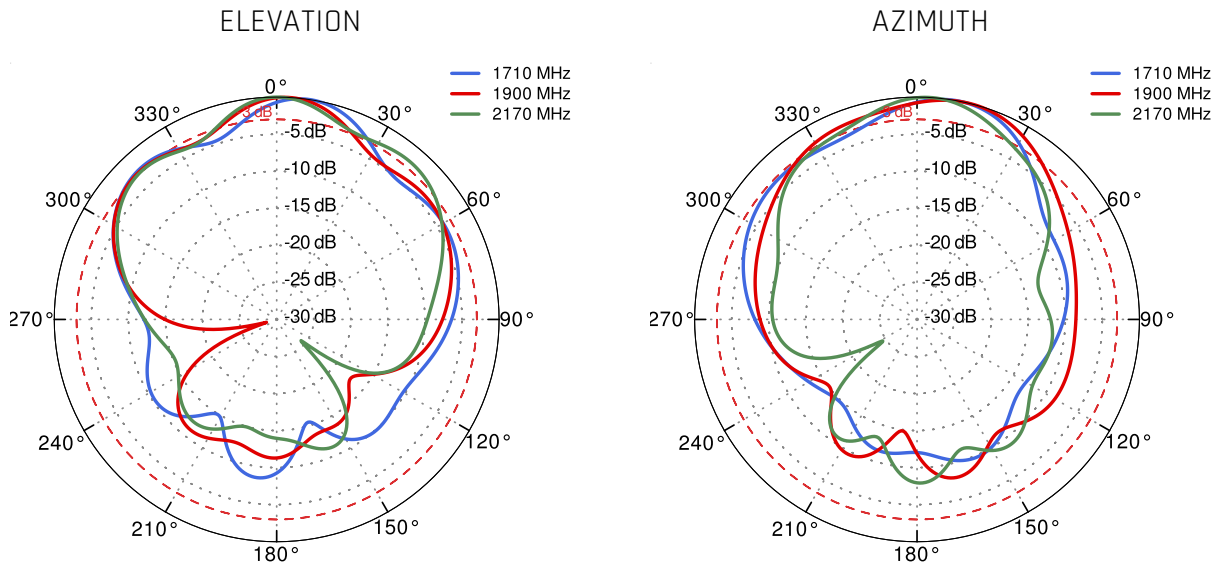
## Gain



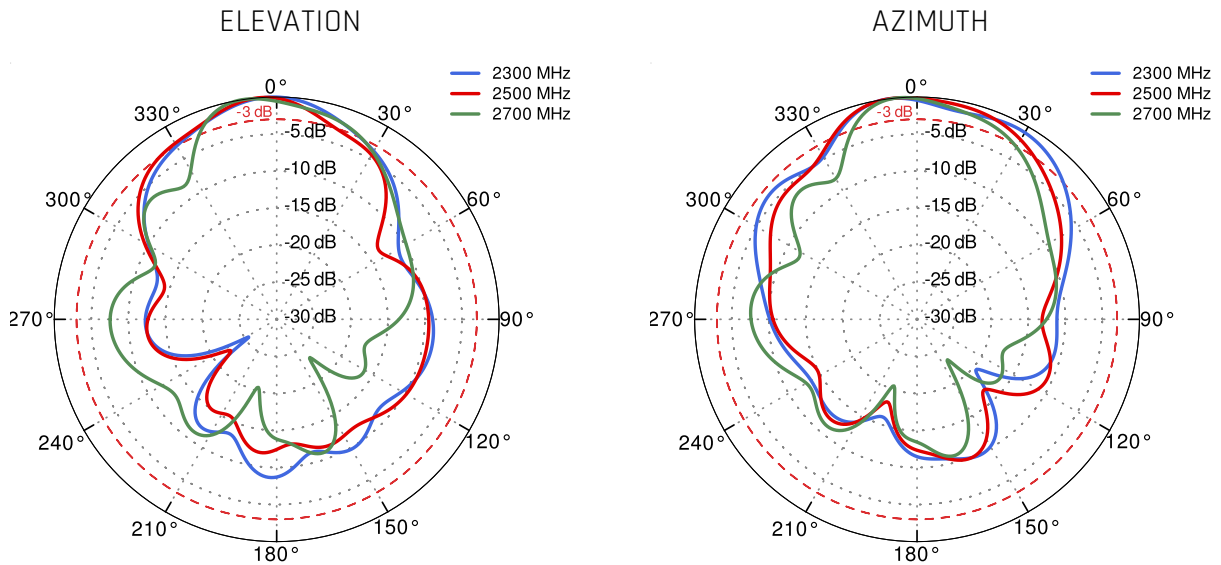
Port 1&3 700MHz to 900MHz



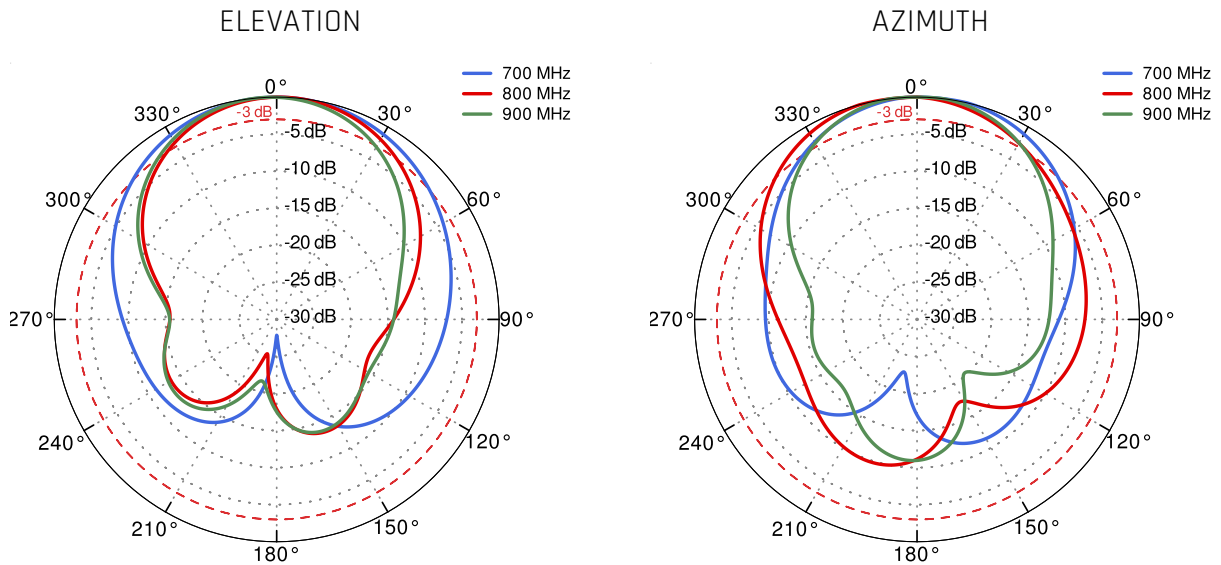
Port 1&3 1.71GHz to 2.17GHz

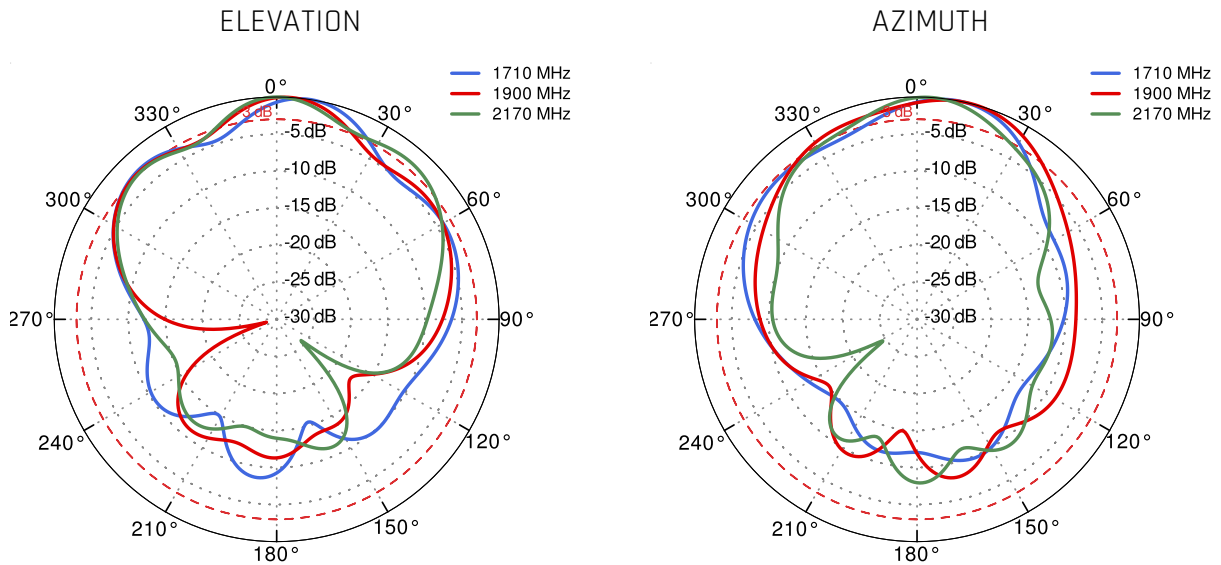
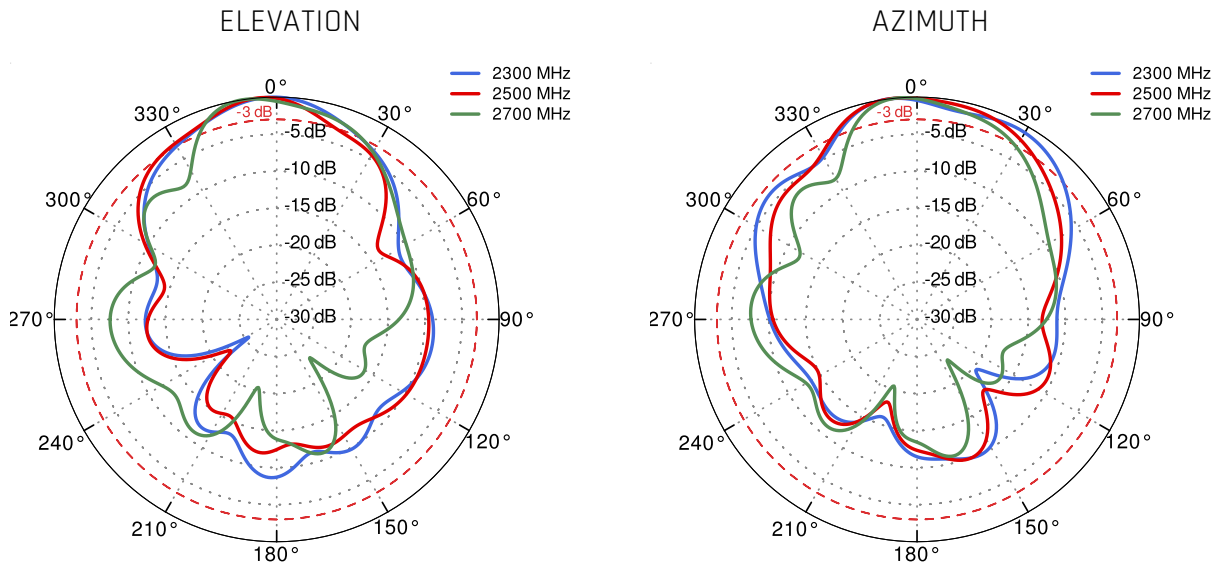


Port 1&3 2.3GHz to 2.7GHz



Port 2&4 700MHz to 900MHz



**Port 2&4 1.71GHz to 2.17GHz**

**Port 2&4 2.3GHz to 2.7GHz**


## DIMENSIONS

