

# QuPanel LTE HP MIMO 4x4 Nf

## Directional High Power multiband LTE MIMO 4x4 antenna

QuPanel LTE directional MIMO 4x4 high gain antenna is specifically designed to support 4G and LTE in high categories, ranging from Cat 5 up to Cat 19. This antenna is highly effective at enhancing signal quality in rural and suburban areas, as well as in places with weak mobile signal coverage.

It is intended for outdoor installation on a pole or affixed to a wall.

Thanks to its exceptionally wide operating frequency range, this antenna serves as a versatile client for LTE bands such as LTE700, LTE800, LTE1800, LTE1900, LTE2100, LTE2300, and LTE2600. Furthermore, it offers compatibility with all MIMO 4x4 LTE modems and routers operating in various categories, including Cat 5, Cat 6, Cat 7, Cat 9, Cat 10, Cat 11, Cat 12, Cat 13, Cat 15, Cat 16, Cat 18, Cat 19, and Cat 20.



OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP67



MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION



FOUR NF CONNECTORS



7 DBI GAIN



70° BEAMWIDTH



MADE IN EUROPE



## 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 : 7 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 Nf
<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>MAST DIAMETER</b>	25-66mm 0.98-2.60 inch

## FREQUENCY BANDS

<b>LTE / 4G GSM</b>	5	6	8	12	13	14	17	617 MHz	960 MHz
	18	19	20	26	27	28	29		
	44	67	68	85	n81	n82	n83		
	n89								
<b>LTE / 4G UMTS</b>	1	2	3	4	9	10	25	1710 MHz	2170 MHz
	33	34	35	36	37	39	59		
	62	n80	n84	n86	n95				

**LTE / 4G WCS DARS**

 2300 MHz
 


2400 MHz

**LTE / 4G**

 2400 MHz
 






2700 MHz

## COMPATIBLE ROUTERS

VARIANT: APLM4-HN

**TELTONIKA**

RUTC42, RUTX12, RUTX14

**ROBUSTEL**

EG5200, R2000

**CISCO**

CG418-E, MG41E

**COMSET**

CM770W-6

**DIGI**

TX54 LTE-Advanced

**ERICSSON (CRADLEPOINT)**

IBR1700

**FIBOCOM**

NL952-EAU, NL952-NA

**FORTINET**

FEX-311F, FEX-311F

**PEPLINK**

BR1 Pro (CAT-20), BR1 Pro CAT-20, MAX HD2, MAX HD2 Mini, MAX Transit, UBR Plus

**QUECTEL**

LTE-A EM160R-GL

**ROBUSTEL**

EG5200, R2000

**TELIT CINTERION**

LM960A18 Series

**TELTONIKA**

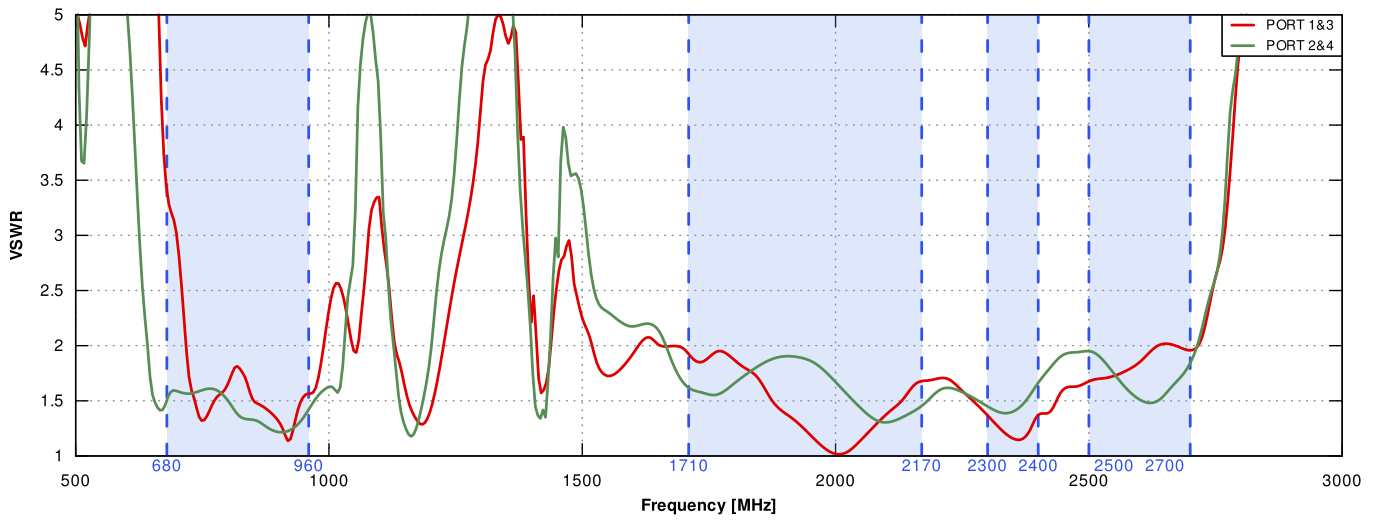
RUTC42, RUTX12, RUTX14

**OTHER**

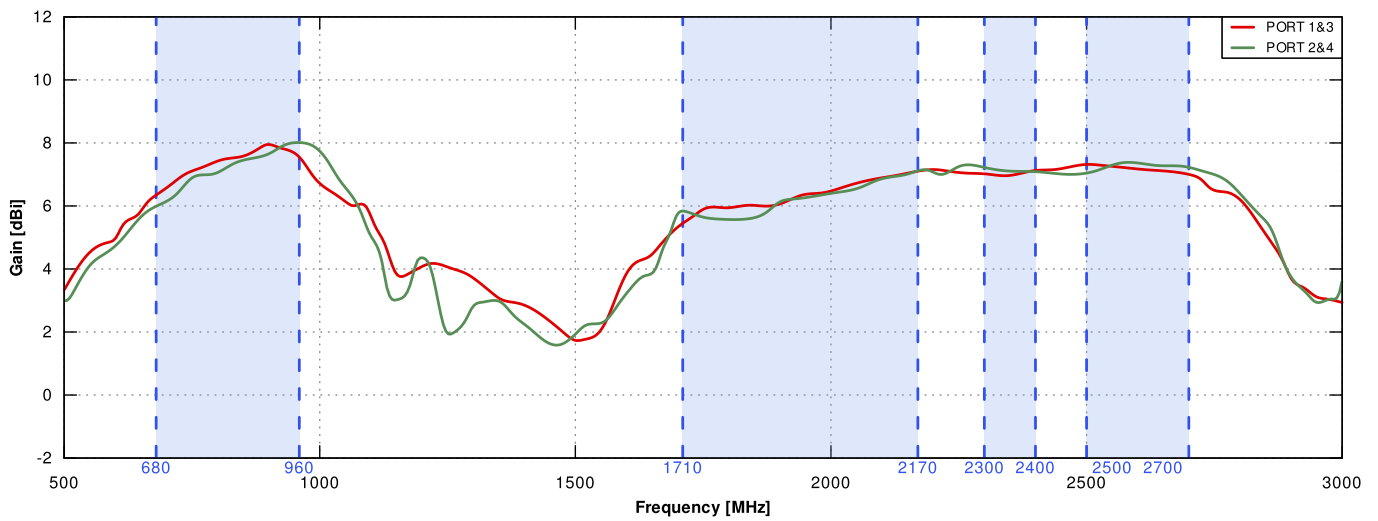
4 \* SMA

# PLOTS

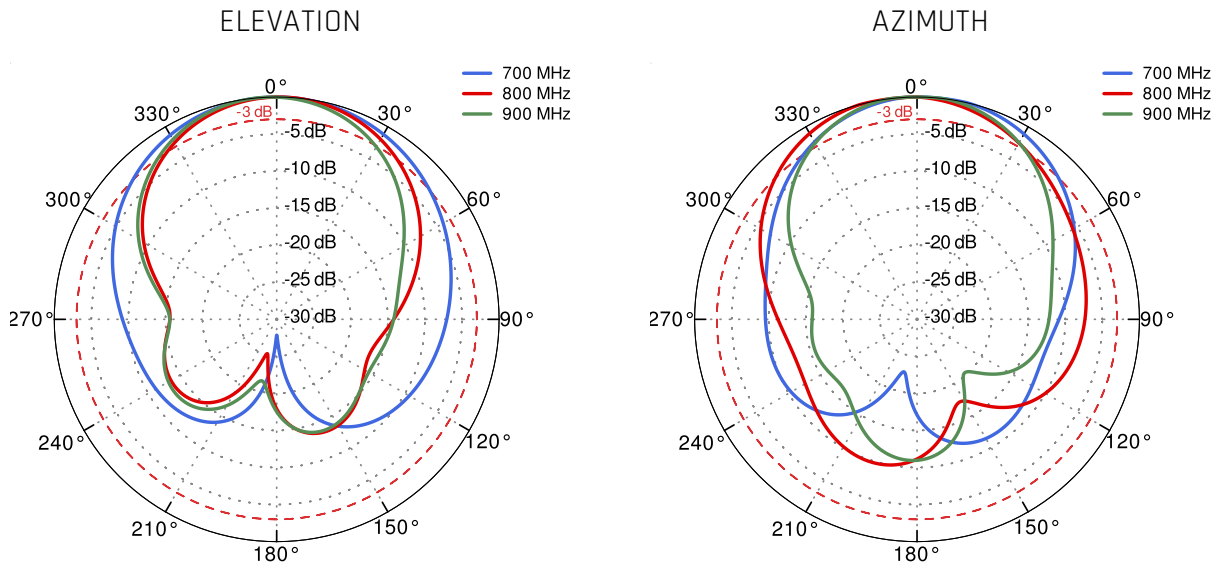
## VSWR



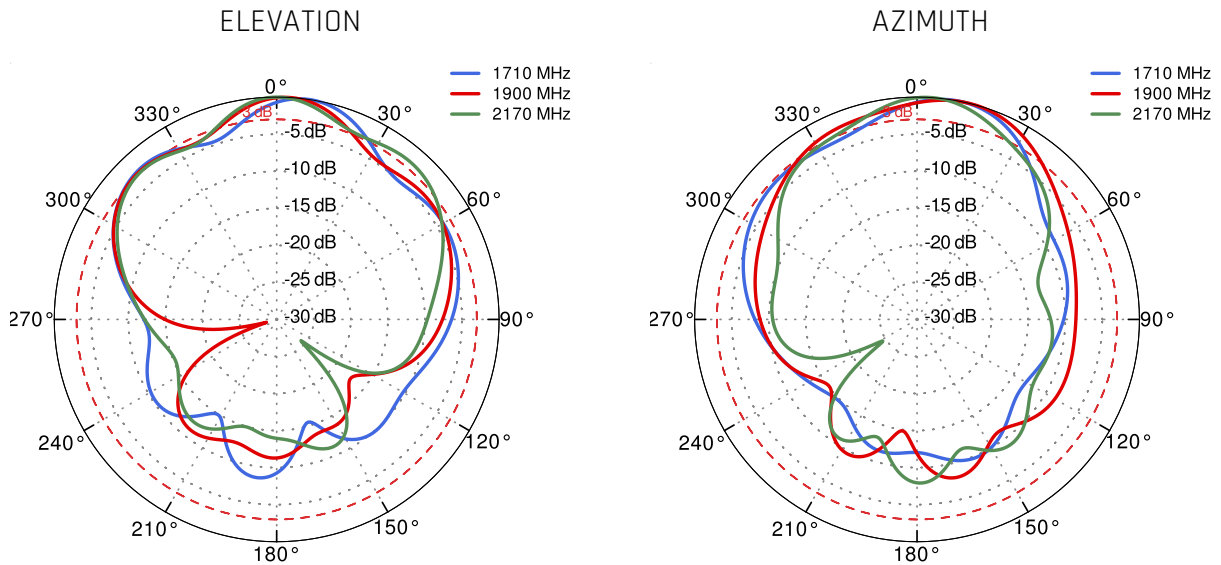
## Gain



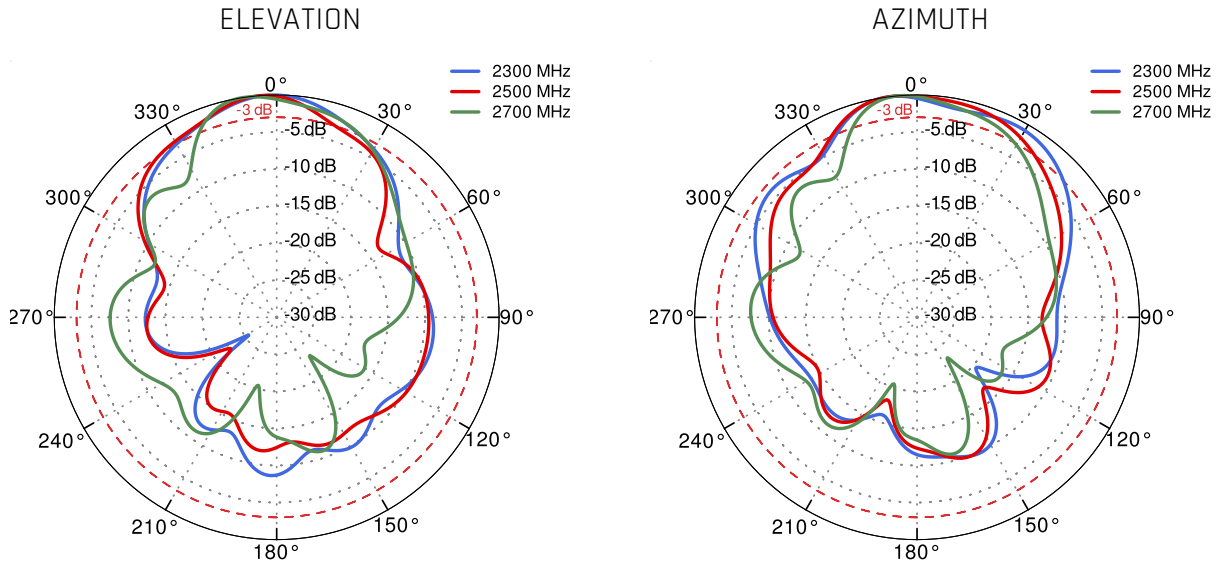
### Port 1&3 700MHz to 900MHz



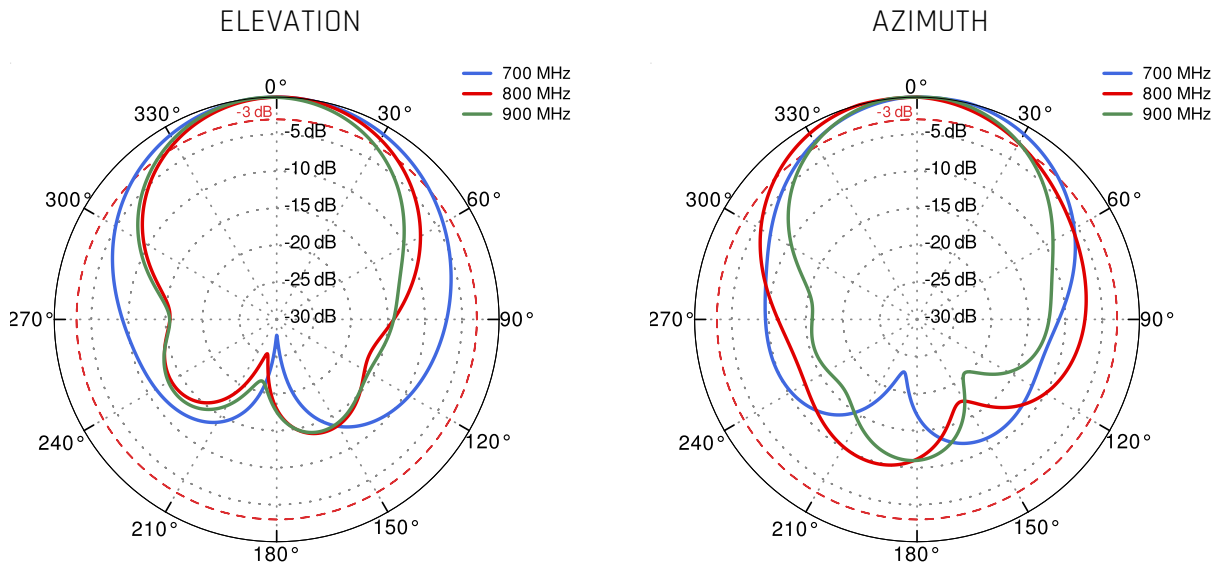
### Port 1&3 1.71GHz to 2.17GHz



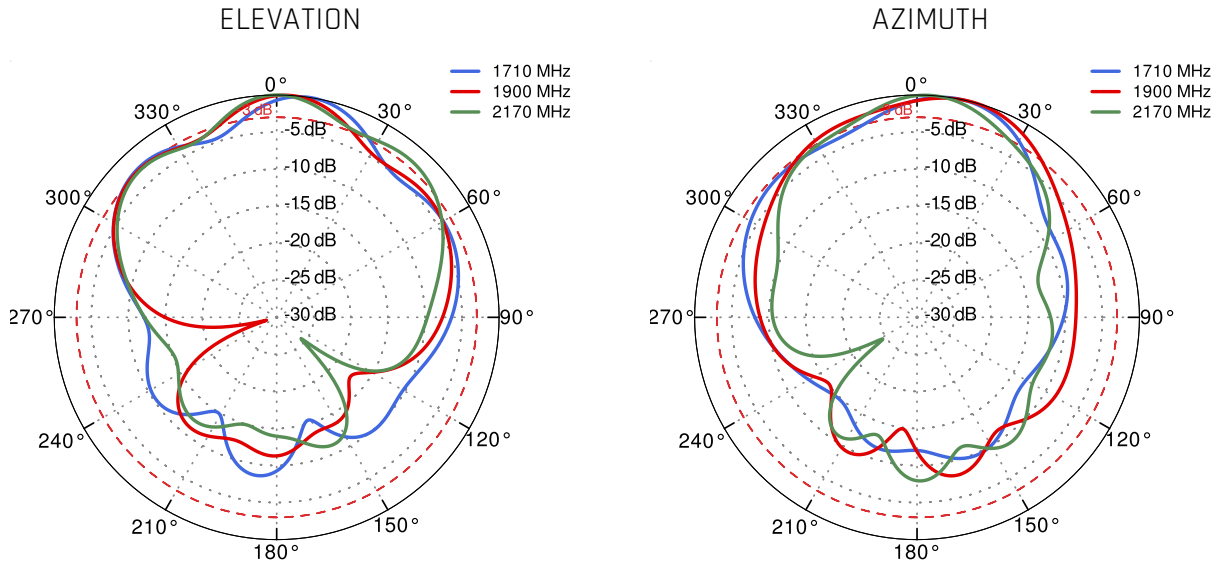
Port 1&3 2.3GHz to 2.7GHz



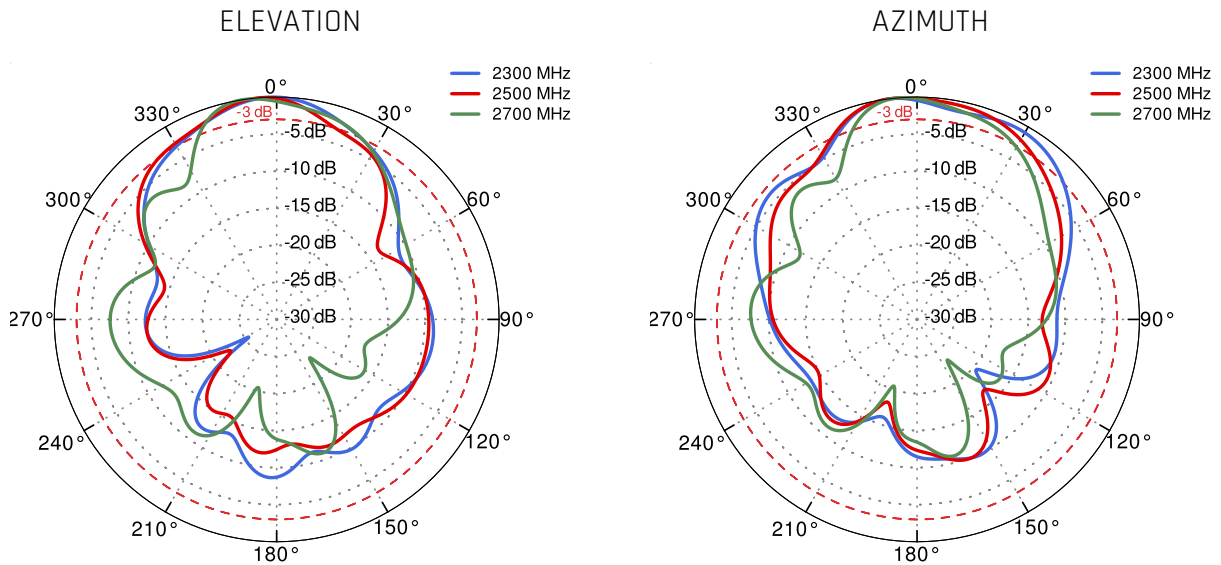
Port 2&4 700MHz to 900MHz



Port 2&4 1.71GHz to 2.17GHz



Port 2&4 2.3GHz to 2.7GHz



## **DIMENSIONS**

