

# 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.

**4G**  
LTE**4x4 MIMO**  
**694-2700MHz**  
**7 dBi**  
**DIRECTIONAL**  
**IP 67**  
**-40° TO +80°**

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

FREQUENCY	694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz
GAIN	694 - 960 MHz : 7 dBi 1.7 - 2.2 GHz : 7 dBi 2.2 - 2.7 GHz : 7 dBi
SUPPORTED LTE/5G BANDS	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
VSWR	<1.70, max <2.00
BEAMWIDTH	70°/70° ±15°
POLARIZATION	Dual polarized X-Pol
IMPEDANCE	50 $\Omega$
FRONT-TO-BACK	>10 dB

## MECHANICAL SPECIFICATION

MATERIALS	ABS, aluminum, PTFE, Fiberglass
CONNECTOR TYPE	4x Nf
INGRESS PROTECTION	IP67
DIMENSIONS	392 x 392 x 99 mm 15.43 x 15.43 x 3.90 inch
WEIGHT	3.7 kg 8.16 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F
MAST DIAMETER	25-60mm 0.98-2.36 inch

## FREQUENCY BANDS

LTE / 4G GSM	<div>56812131417</div> <div>617 MHz<div>18192026272829</div><div>44676885n81n82n83</div><div>n89</div>960 MHz</div>
LTE / 4G UMTS	<div>123491025</div> <div>1710 MHz<div>33343536373959</div><div>62n80n84n86n95</div>2170 MHz</div>

LTE / 4G WCS DARS

2300  
MHz

30

40

2400  
MHz

LTE / 4G

2400  
MHz

7

38

41

53

69

n90

2700  
MHz

## COMPATIBLE ROUTERS

VARIANT: APLM4-HN

TELTONIKA

RUTX12, RUTX14

DIGI

TX54 LTE-Advanced

ROBUSTEL

EG5200, R2000

COMSET

CM770W-6

CRADLEPOINT

IBR1700

DIGI

TX54 LTE-Advanced

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

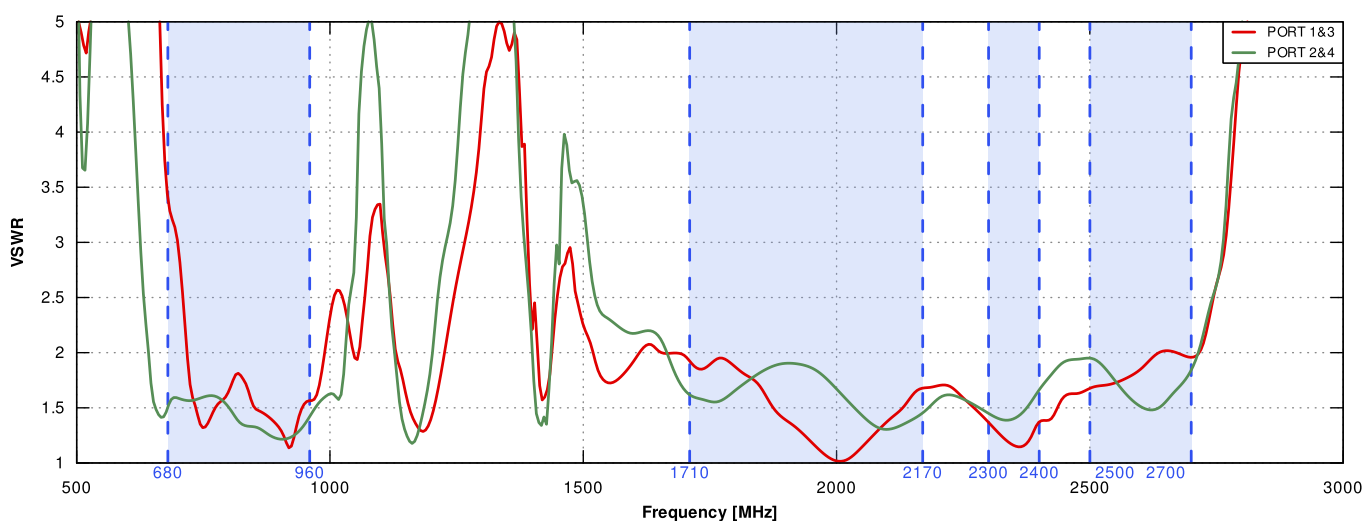
RUTX12, RUTX14

OTHER

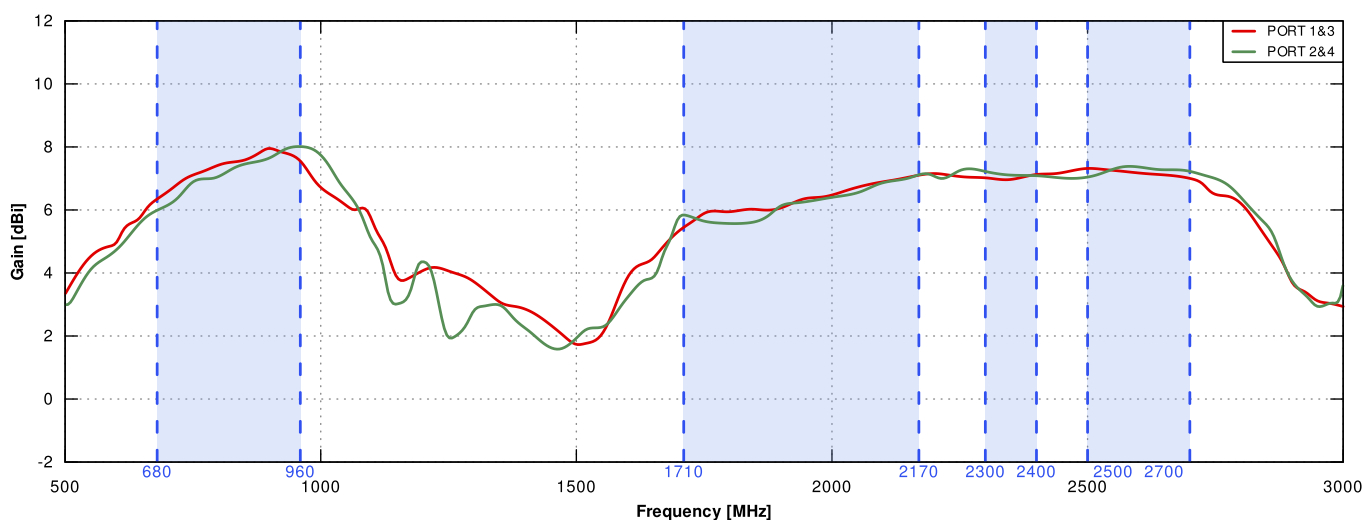
4 \* SMA

## PLOTS

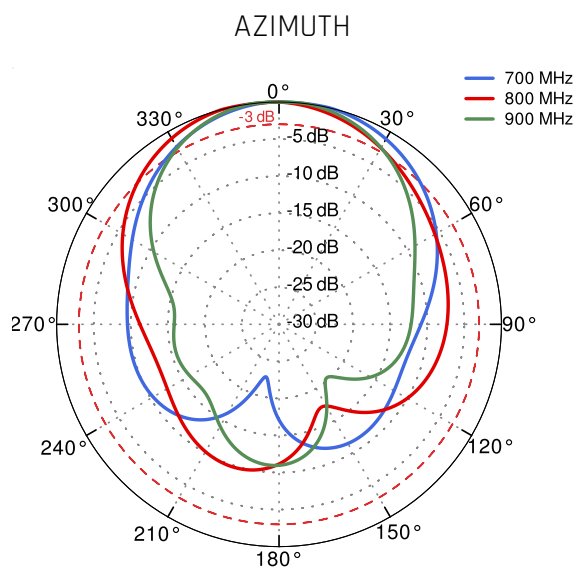
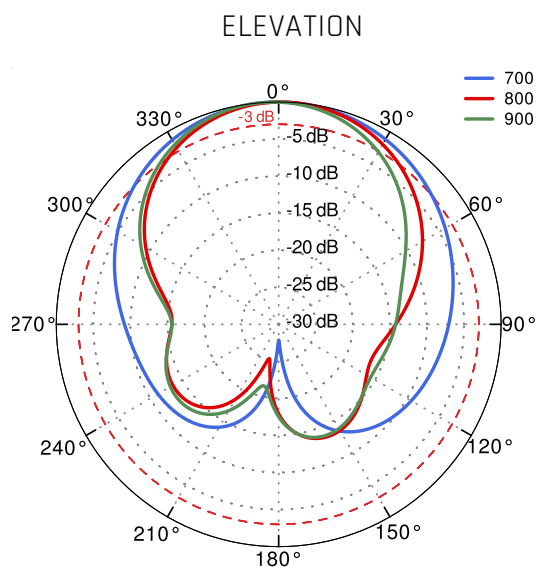
VSWR



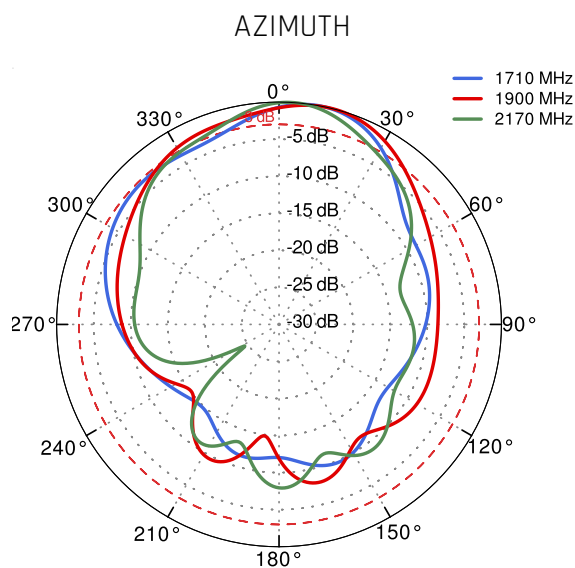
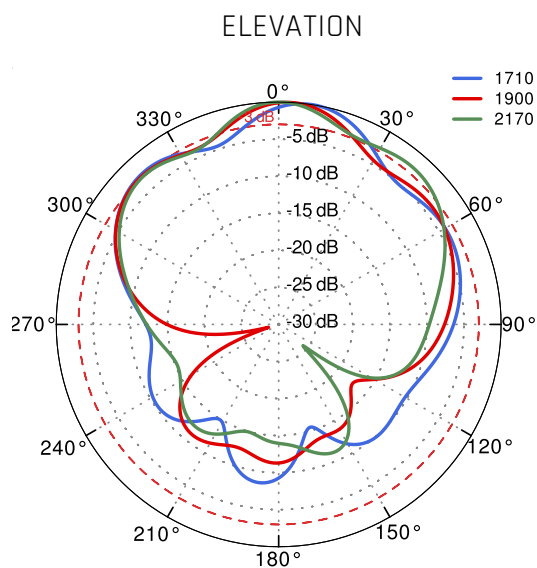
Gain



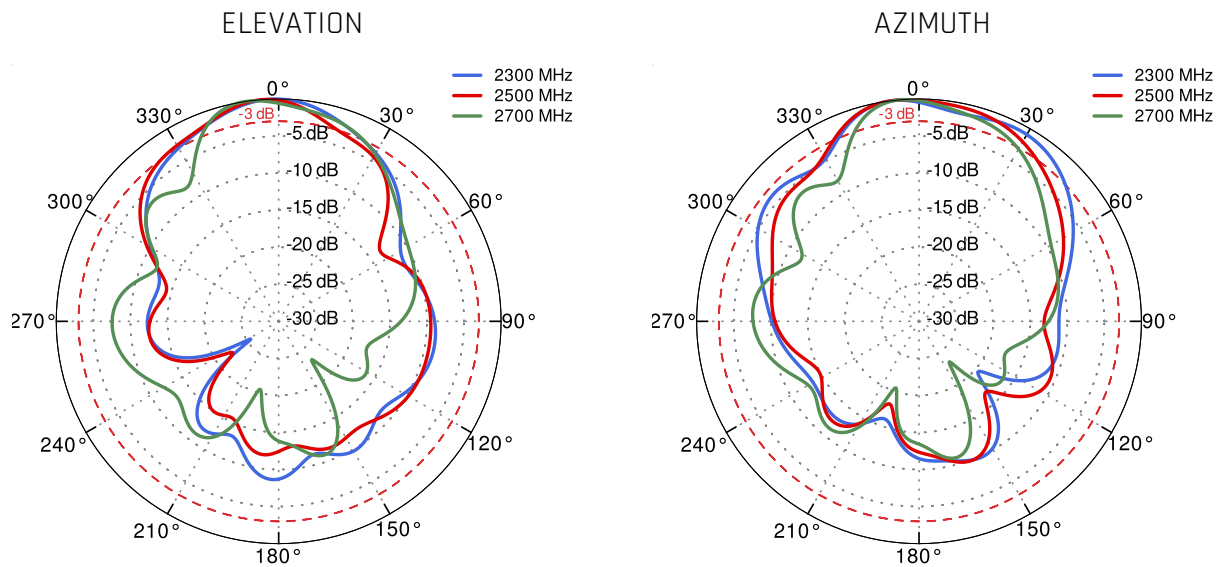
## Port 1&3 700MHz to 900MHz



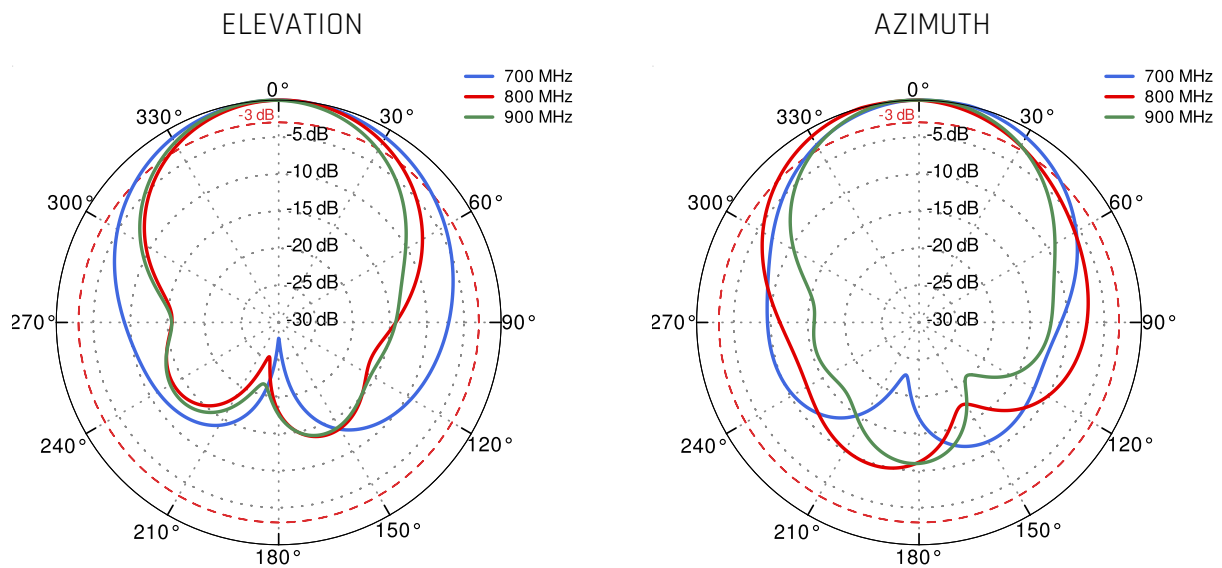
## Port 1&3 1.71GHz to 2.17GHz



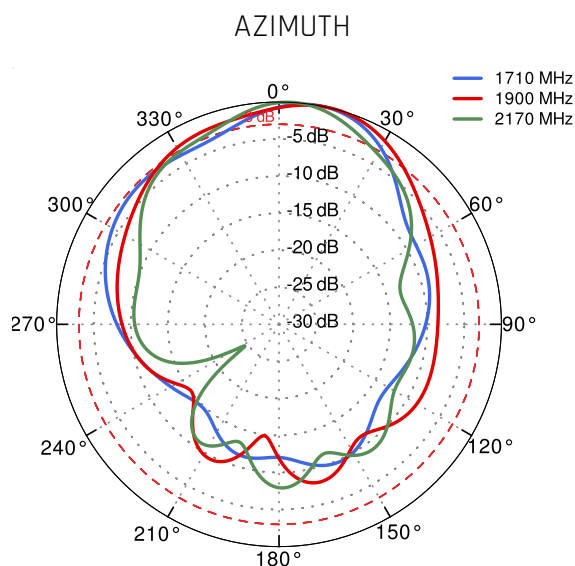
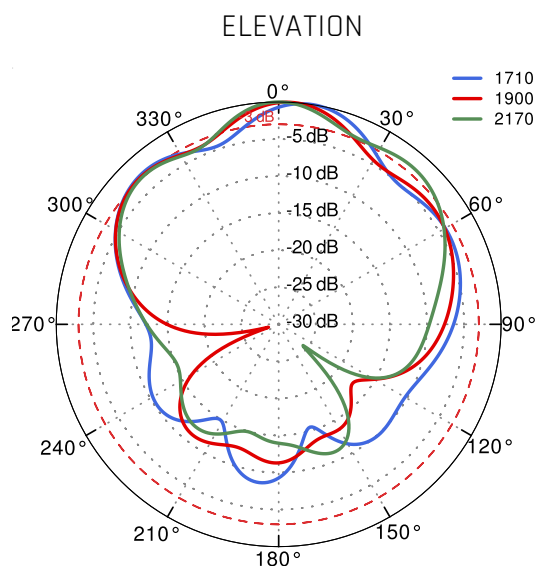
Port 1&3 2.3GHz to 2.7GHz



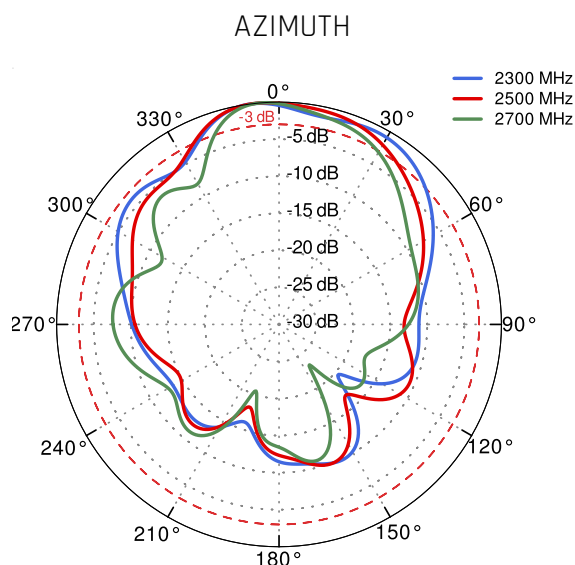
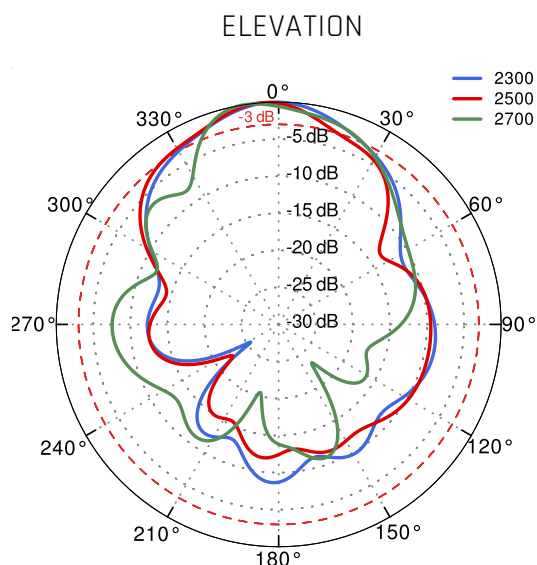
Port 2&4 700MHz to 900MHz



## Port 2&4 1.71GHz to 2.17GHz



## Port 2&4 2.3GHz to 2.7GHz





## DIMENSIONS

