

# QuPanel LTE MIMO 4x4 Nf

## Directional High Power multiband LTE MIMO 4x4 antenna

QuPanel LTE directional MIMO 4x4 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.

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

OUTDOOR ANTENNA WORKS IN ANY  
WEATHER CONDITIONS, IP67



MOUNTING SYSTEM WITH TWO  
PLANES, 60 DEGREES REGULATION



FOUR INTEGRATED NF CONNECTORS



6 DBI GAIN



MADE IN **EUROPE**



## LTE ANTENNA SPECIFICATION

FREQUENCY	694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz
SUPPORTED LTE/5G BANDS	1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 44, 53, 65, 66, 67, 68, 69, 85, 103, n80, n81, n82, n83, n84, n86, n89, n90, n95, n97, n98, n100, n101, n256
GAIN	694 - 960 MHz : 4 dBi 1.7 - 2.2 GHz : 5 dBi 2.2 - 2.7 GHz : 6 dBi
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
INGRESS PROTECTION	IP67
DIMENSIONS	272 x 276 x 96 mm 10.71 x 10.87 x 3.78 inch
WEIGHT	1.8 kg 3.97 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F
CABLE LENGTH	5m (P/N: APLM4) or 10m (P/N: APLM4-1) or Nf connector (P/N: APLM4-N)
CABLE TYPE	LMR195 white
CONNECTOR TYPE	4x integrated cables with SMA plug or 4x Nf connectors
MAST DIAMETER	25-60mm 0.98-2.36 inch

## FREQUENCY BANDS

**LTE / 4G GSM**

617 MHz	5	8	12	13	14	17	18	960 MHz
	19	20	26	27	28	29	44	
	67	68	85	103	n81	n82	n83	
	n89	n100						

**LTE / 4G UMTS**

1710 MHz	1	2	3	4	9	10	25	2170 MHz
	33	34	35	36	37	39	n80	
	n84	n86	n95	n98	n101			

**LTE / 4G WCS DARS**

2300 MHz	30	40	n97					2400 MHz
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**LTE / 4G**

2400 MHz	7	38	41	53	69	n90		2700 MHz
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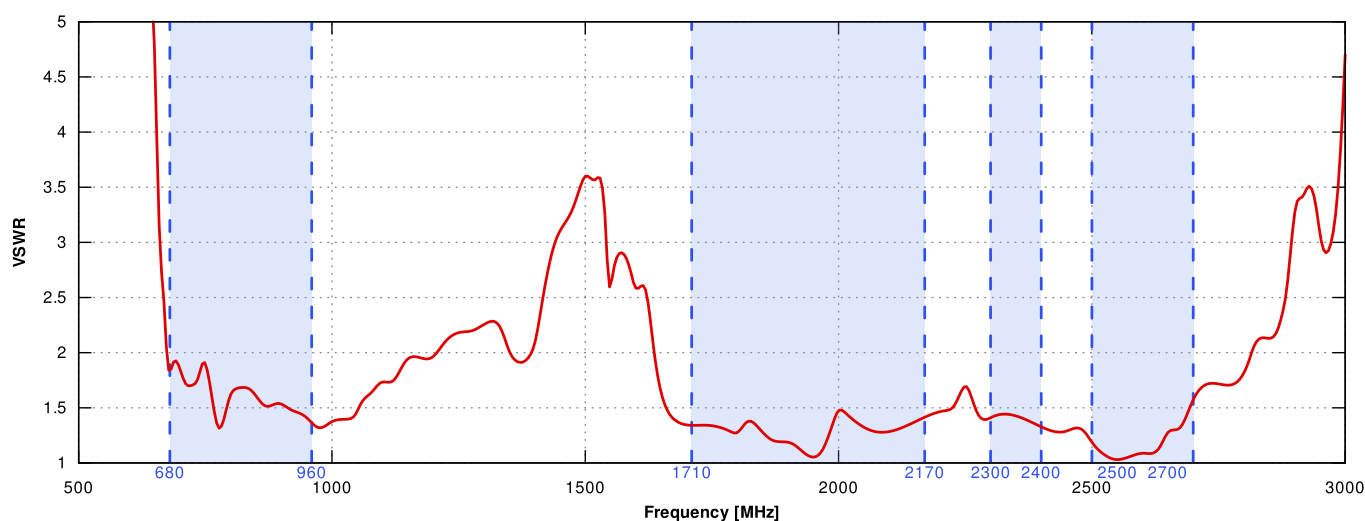
## COMPATIBLE ROUTERS

VARIANT: APLM4-N

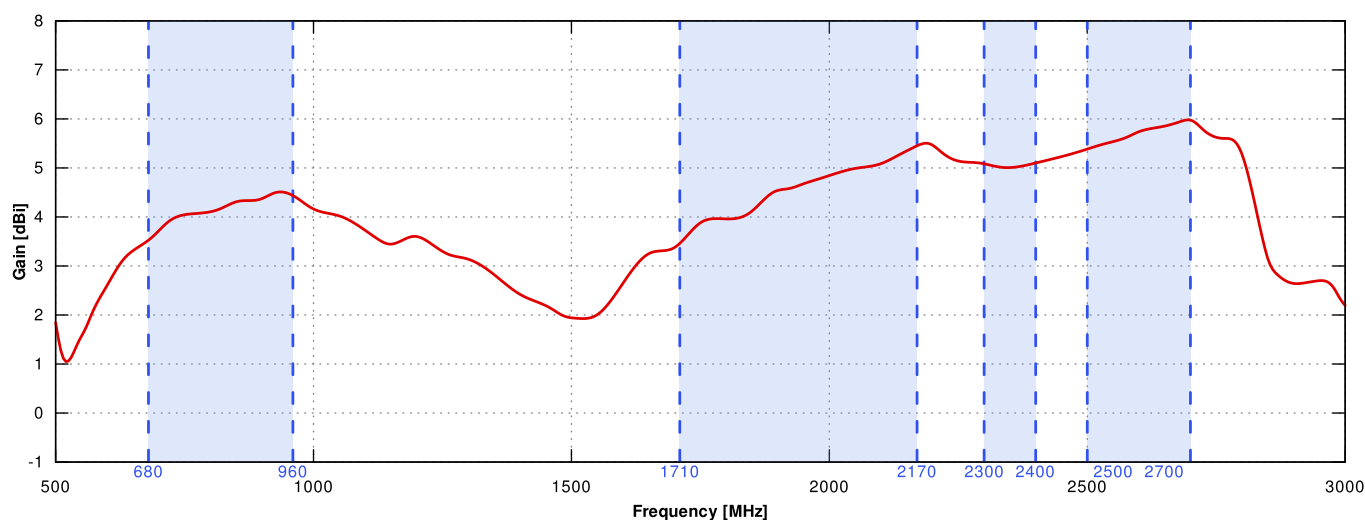
TELTONIKA	RUTX12, RUTX14
DIGI	TX54 LTE-Advanced
ROBUSTEL	EG5200, R2000
COMSET	CM770W-6
CRADLEPOINT	IBR1700
DIGI	TX54 LTE-Advanced
FIBOCOM	NL952-EAU, NL952-NA
FORTINET	FEX-311F, FEX-311F
PEPLINK	BR1 Pro (CAT-20), BR1 Pro CAT-20, MAX HD2, MAX HD2 Mini, MAX Transit, UBR Plus
QUECTEL	LTE-A EM160R-GL
ROBUSTEL	EG5200, R2000
TELIT CINTERION	LM960A18 Series
TELTONIKA	RUTX12, RUTX14
OTHER	4 * SMA

## PLOTS

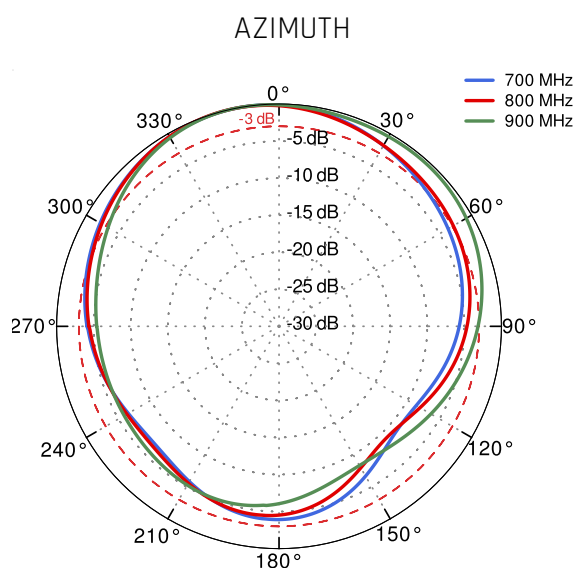
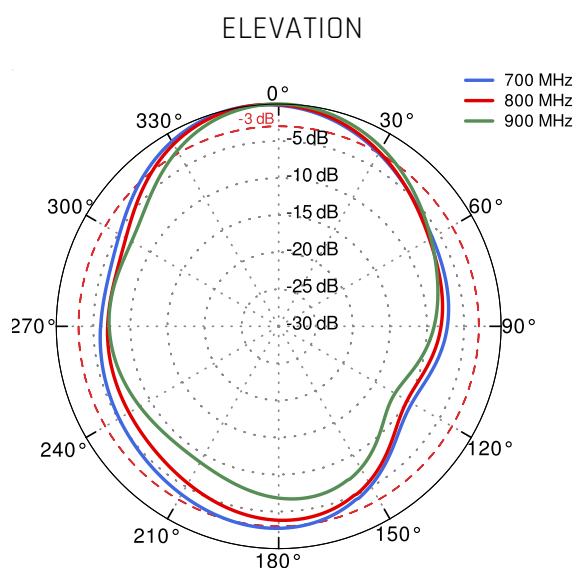
VSWR



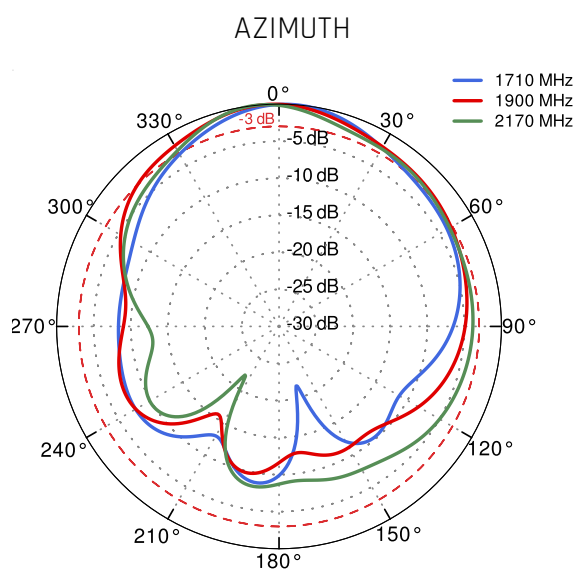
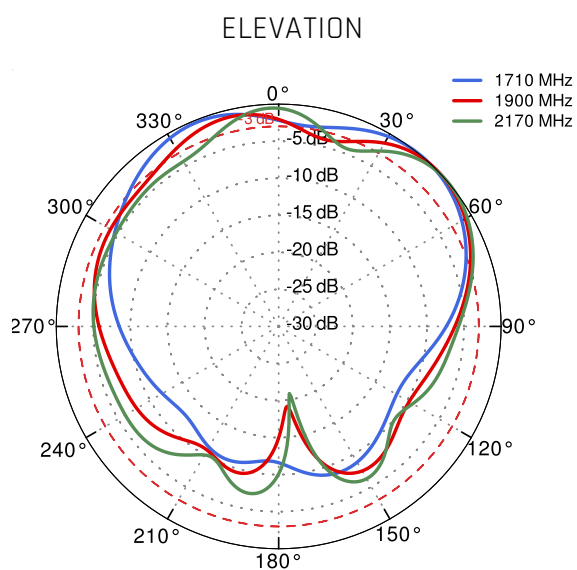
Gain



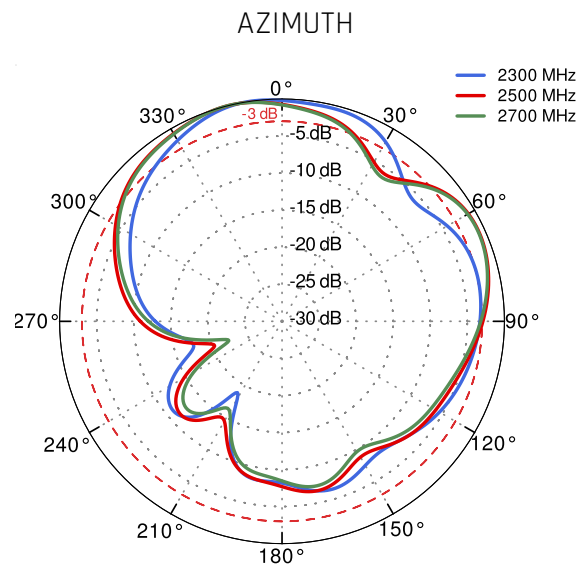
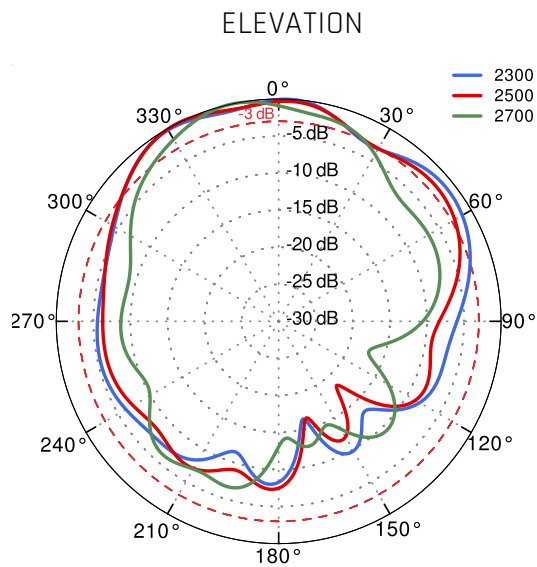
From 700MHz to 900MHz



From 1.71GHz to 2.17GHz



From 2.3GHz to 2.7GHz



## **DIMENSIONS**

