

# QuPanel 5G/LTE MIMO 4x4 Nf

## Directional High Power multiband 5G/LTE MIMO 4x4 antenna

QuPanel 5G/LTE directional MIMO 4x4 high gain antenna is predicted for 5G and 4G LTE mainly, but is compatible with 3G and 2G as well. 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 5G bands n77, n78 and LTE bands like LTE700 / 800 / 1800 / 1900 / 2100 / 2300 / 2600 / 3400 / 3800. It's compatible with Teltonika and other MIMO 4x4 5G / LTE / 3G / 2G modems and routers.



OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP67



MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION



FOUR NF CONNECTORS



7.5DBI GAIN



70° BEAMWIDTH



MADE IN EUROPE



## 5G / LTE ANTENNA SPECIFICATION

FREQUENCY	694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz 3.3 - 3.8 GHz
GAIN	694 - 960 MHz : 7 dBi 1.7 - 2.2 GHz : 7 dBi 2.2 - 2.7 GHz : 7.5 dBi 3.3 - 3.8 GHz : 5.5 dBi
SUPPORTED LTE BANDS	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, 48, 49, 52, 53, 65, 66, 67, 68, 69, 85, 103, 106
SUPPORTED 5G BANDS	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n48, n53, n65, n66, n67, n78, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256
VSWR	<1.70, max <2.00
BEAMWIDTH	70°/70° ±15°
POLARIZATION	Dual polarized X-Pol
IMPEDANCE	50 $\Omega$
FRONT-TO-BACK	694 - 960 MHz : >10 dB 1.7 - 2.2 GHz : >12 dB 2.2 - 2.7 GHz : >14 dB 3.3 - 3.8 GHz : >17 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	25-66mm 0.98-2.60 inch

## FREQUENCY BANDS

LTE / 4G	1	2	3	4	5	7	8	694 MHz	3800 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		
	48	49	52	53	65	66	67		
	68	69	85	103	106				

**5G**

694  
MHz

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

3800  
MHz

## COMPATIBLE ROUTERS

VARIANT: AP5G4-N

**TELTONIKA**

RUTC50, RUTM30, RUTM31, RUTM51, RUTM54, RUTX12, RUTX14, RUTX50, TRB500

**ROBUSTEL**

EG5120, EG5200, R2000, R5010, R5020, R5020 Lite

**COMSET**

CM550W, CM580W, CM685VX, CM770W-6, CM950W

**DIGI**

EX50, IX40, TX54 LTE-Advanced, TX64

**EE 5G (5GEE)**

Smart 5G Hub

**ERICSSON (CRADLEPOINT)**

E300, E3000, IBR1700, R1900, R980, W1850, W2005, W4005

**FIBOCOM**

FM150-AE, FM150-NA, FM160-EAU, FM160-JK, FM160-NA, FM160-PN, FM190-GL, FM190W-GL, NL952-EAU, NL952-NA

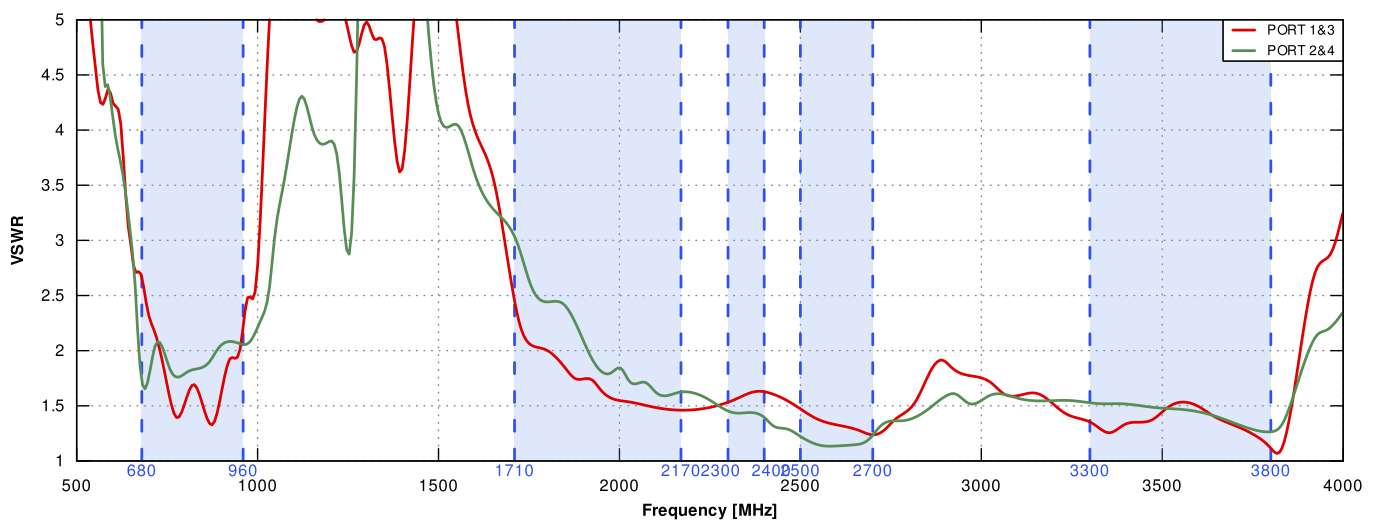
**FORTINET**

FEX-311F, FEX-311F

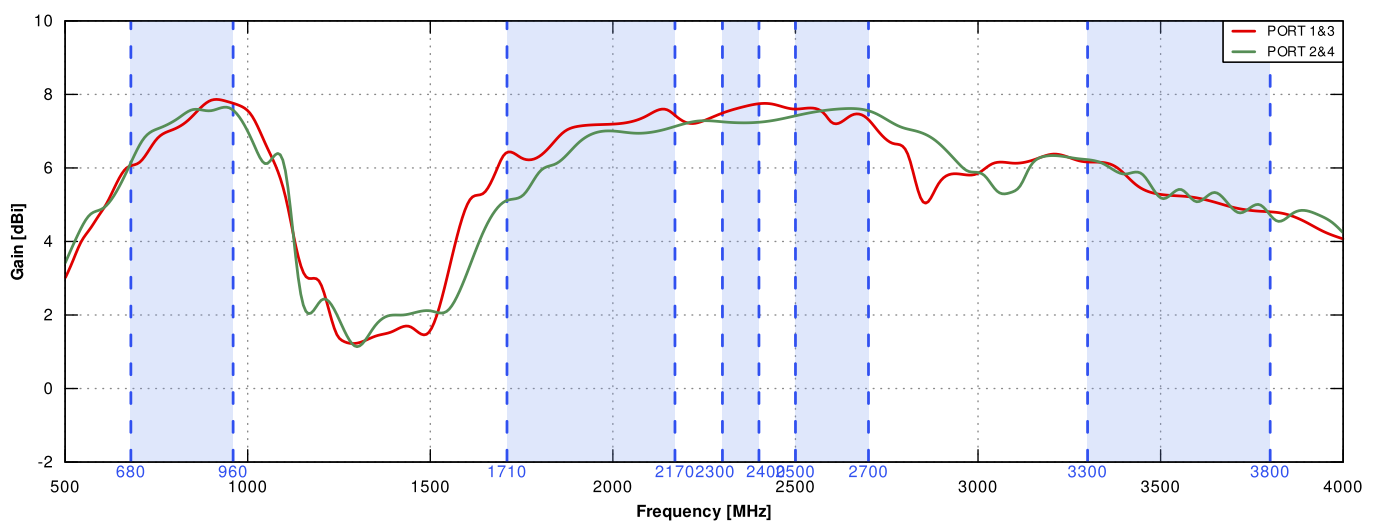
<b>FOUR-FAITH</b>	5G Industrial CPE F-NR200, 5G Industrial Router F-NR100, 5G SIM WiFi Router F-NR120, 5G Smart Light Pole Gateway F-G300, 5G WiFi Router with SIM Card Slot F-NR130, Smart Light Pole Gateway F-G310
<b>MILESIGHT</b>	UF31, UR75
<b>PEPLINK</b>	Balance 310 5G, Balance 310 fiber 5G, BR1 Mini 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>QUECTEL</b>	5G RM500Q-AE, 5G RM500Q-GL, 5G RM502Q-GL, 5G RM505Q-AE, 5G RM510Q-GL, 5G RM520N-EU, 5G RM520N-GL, 5G RM521F-GL, 5G RM530N-GL, LTE-A EM160R-GL
<b>ROBUSTEL</b>	EG5120, EG5200, R2000, R5010, R5020, R5020 Lite
<b>SEMTECH (SIERRA WIRELESS)</b>	AirLink MG90 5G, EM9190, EM9191, EM9291, XR60
<b>SIEMENS</b>	6GK5853-2EA00-2DA1, 6GK5856-2EA00-3AA1, 6GK5856-2EA00-3DA1
<b>SIMCOM</b>	SIM8202X-M2, SIM8260G-M2, SIM8262X-M2 Series, SIM8380G-M2
<b>TELIT CINTERION</b>	FN980/FN980m, FN990A40/A28, LM960A18 Series, MV31, MV32
<b>TELTONIKA</b>	RUTC50, RUTM30, RUTM31, RUTM51, RUTM54, RUTX12, RUTX14, RUTX50, TRB500
<b>WAVETEL</b>	W4600-NR 5G, W4A00 5G, WNR320 5G, WNR340 5G
<b>WLINK</b>	G230, G530, G530
<b>ZTE</b>	ZM9020
<b>ZYXEL</b>	Nebula FWA510, NR5103
<b>OTHER</b>	4 * SMA

## PLOTS

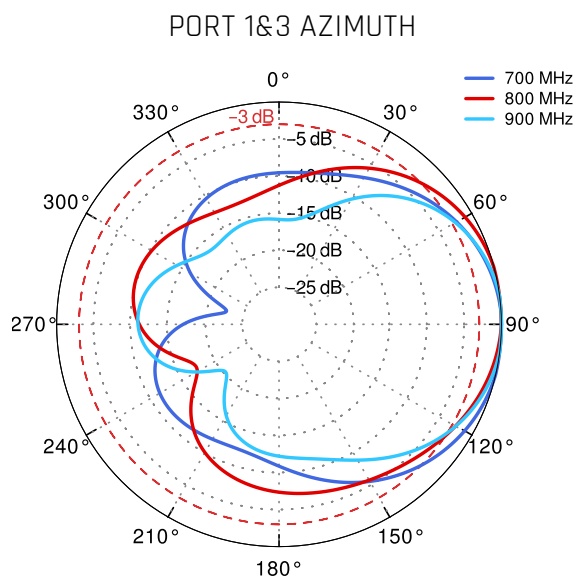
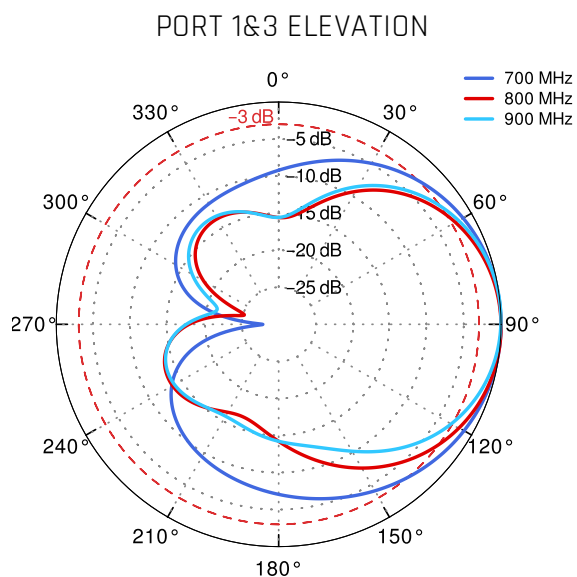
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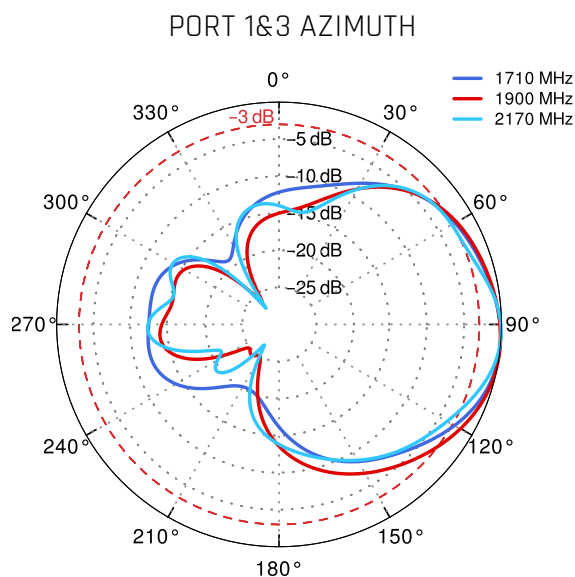
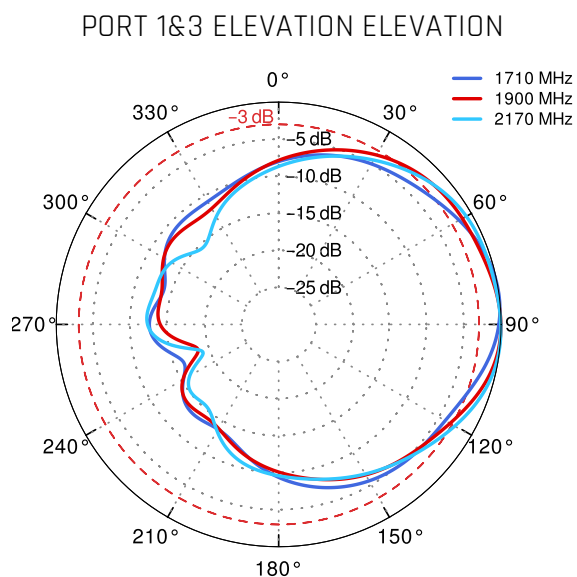
### Gain



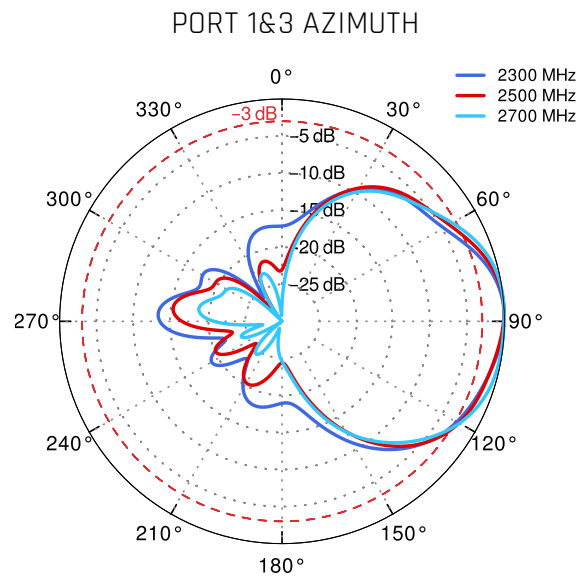
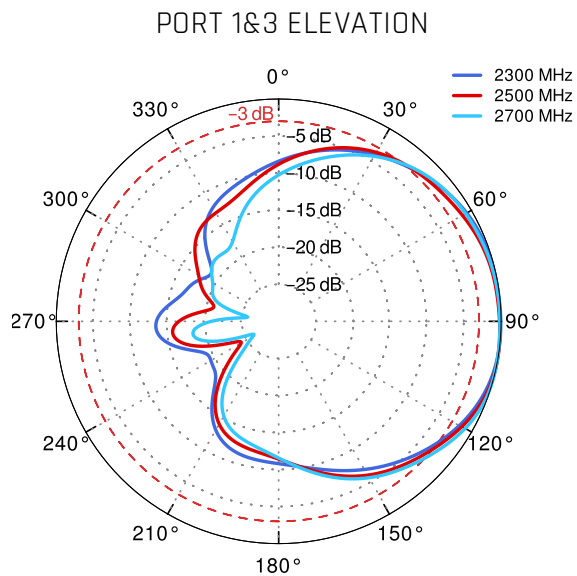
From 700MHz to 900MHz



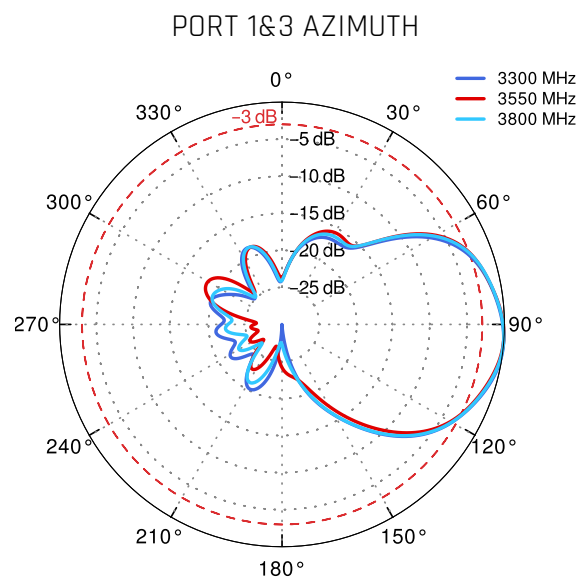
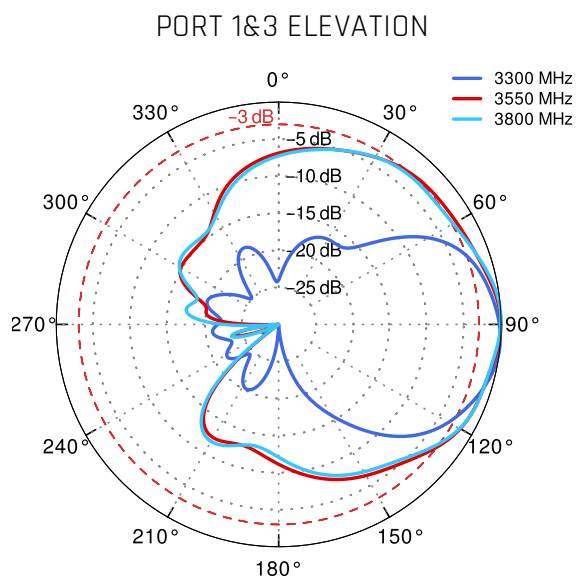
From 1.71GHz to 2.17GHz



From 2.3GHz to 2.7GHz

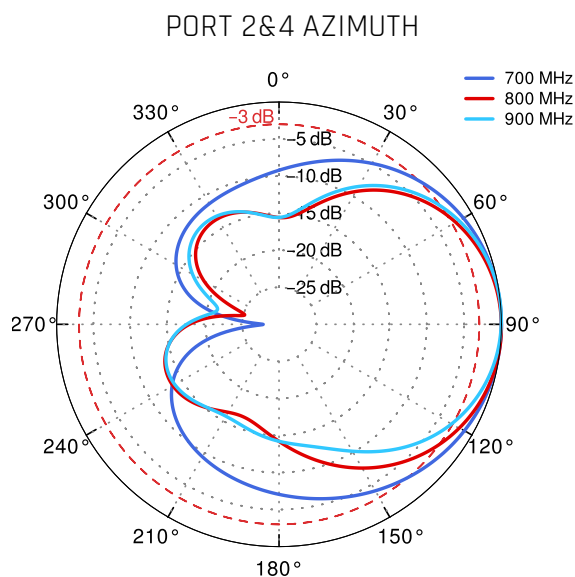
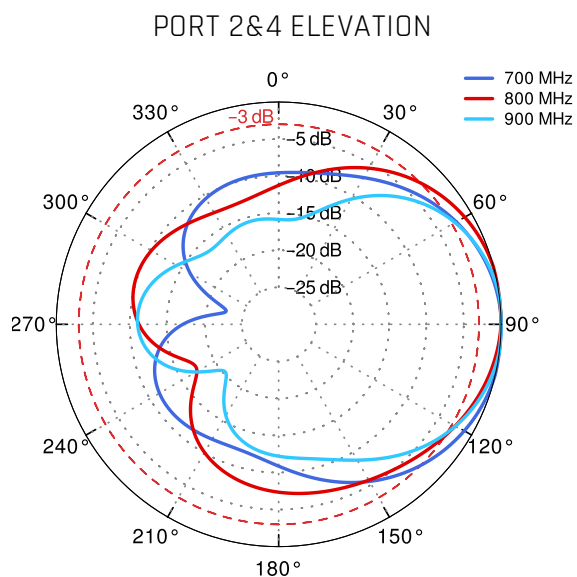


From 3.3GHz to 3.8GHz

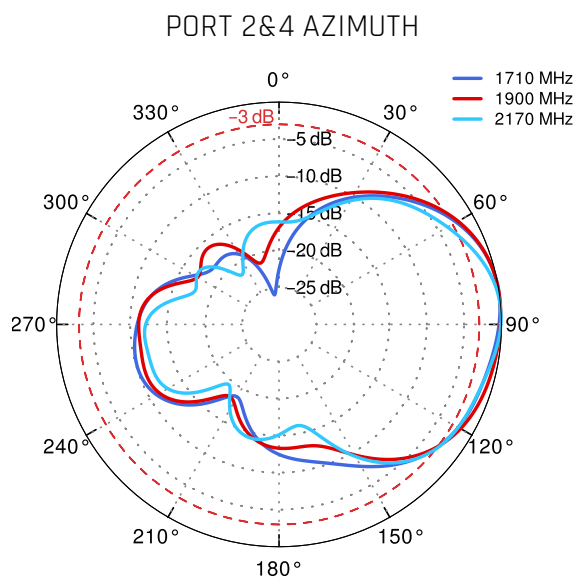
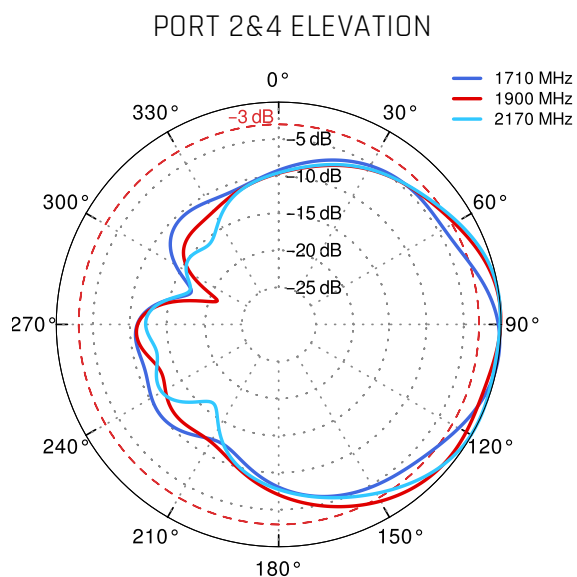




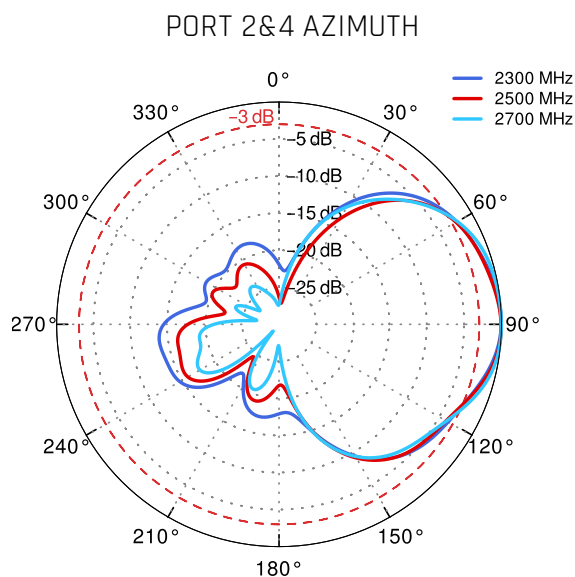
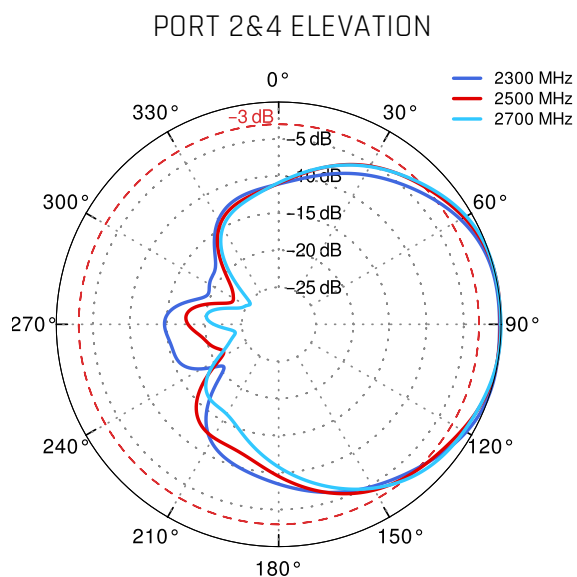
From 700MHz to 900MHz



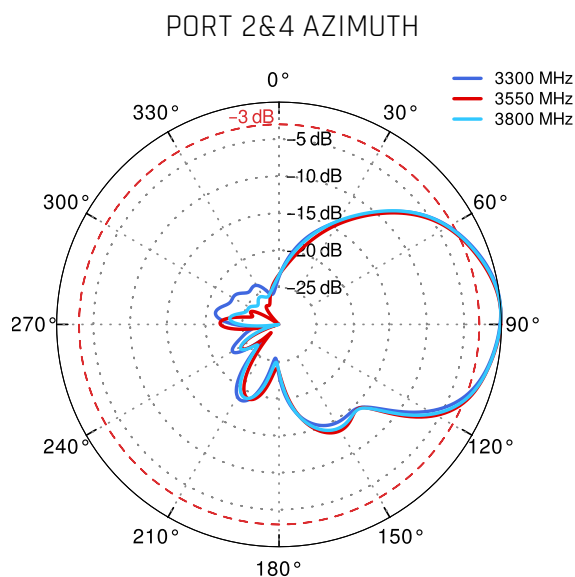
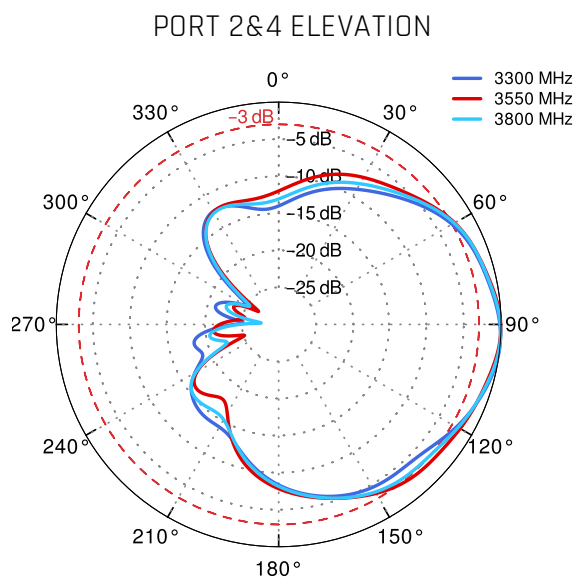
From 1.71GHz to 2.17GHz



From 2.3GHz to 2.7GHz



From 3.3GHz to 3.8GHz



## DIMENSIONS

