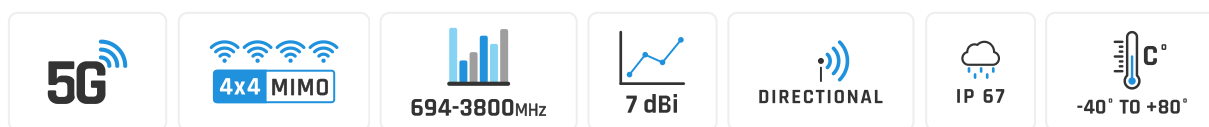


QuPanel 5G/LTE MIMO 4x4 Nf

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.



5G / LTE ANTENNA SPECIFICATION

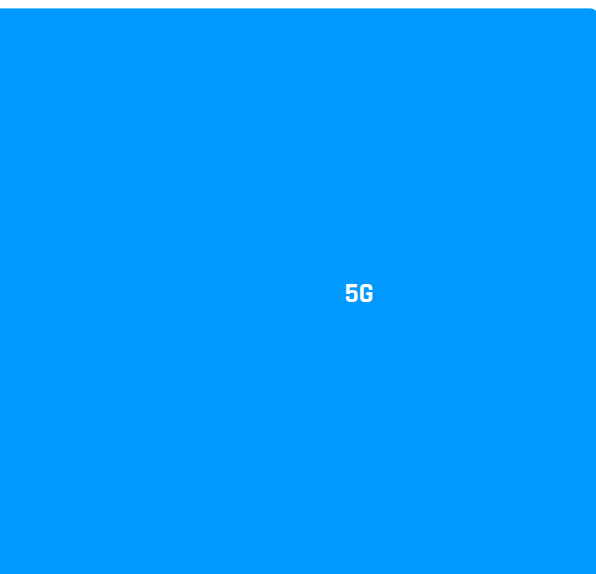
FREQUENCY	694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz 3.3 - 3.8 GHz
GAIN	694 - 960 MHz : 7 dBi 1.7 - 2.2 GHz : 7 dBi 2.2 - 2.7 GHz : 7.5 dBi 3.3 - 3.8 GHz : 5.5 dBi
SUPPORTED LTE BANDS	1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 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, n255
VSWR	<1.70, max <2.00
BEAMWIDTH	70°/70° ±15°
POLARIZATION	Dual polarized X-Pol
IMPEDANCE	50 Ω
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

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				



694 MHz	n1	n2	n3	n5	n7	n8	n12	3800 MHz
	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	

COMPATIBLE ROUTERS

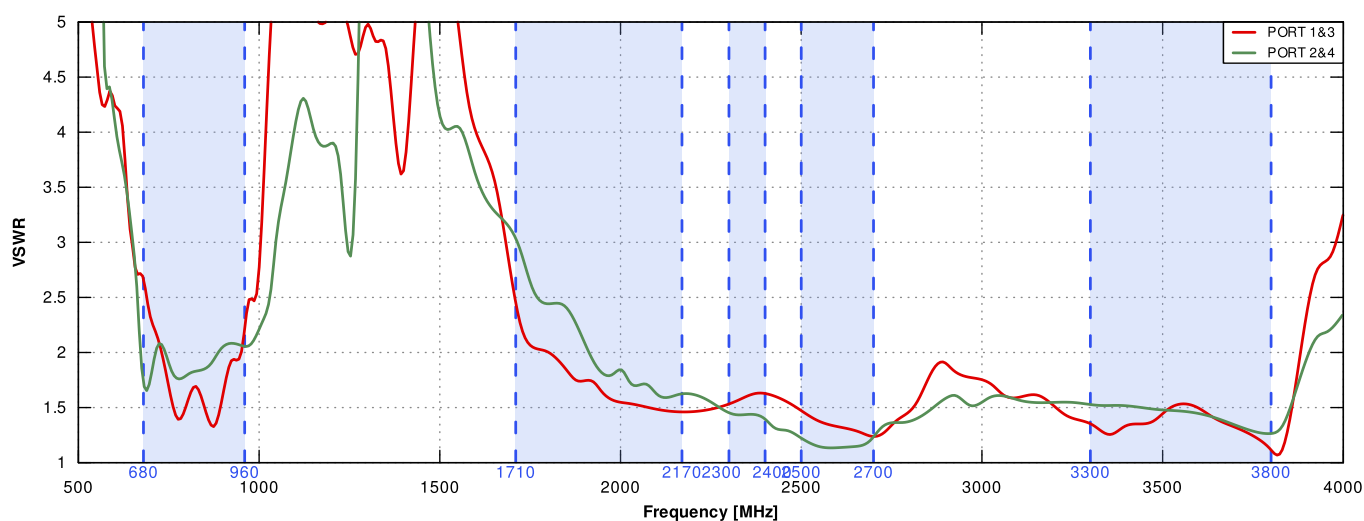
VARIANT: AP5G4-N

TELTONIKA	RUTX12, RUTX14, RUTX50, TRB500
DIGI	TX54 LTE-Advanced
ROBUSTEL	EG5120, R2000, R5020, R5020 Lite
COMSET	CM770W-6
CRADLEPOINT	IBR1700, R1900
DIGI	TX54 LTE-Advanced
EE 5G (5GEE)	Smart 5G Hub
FORTINET	FEX-311F
PEPLINK	BR1 Pro (CAT-20), MAX HD2, MAX HD2 Mini, MAX Transit, MAX Transit Duo Pro, UBR Plus

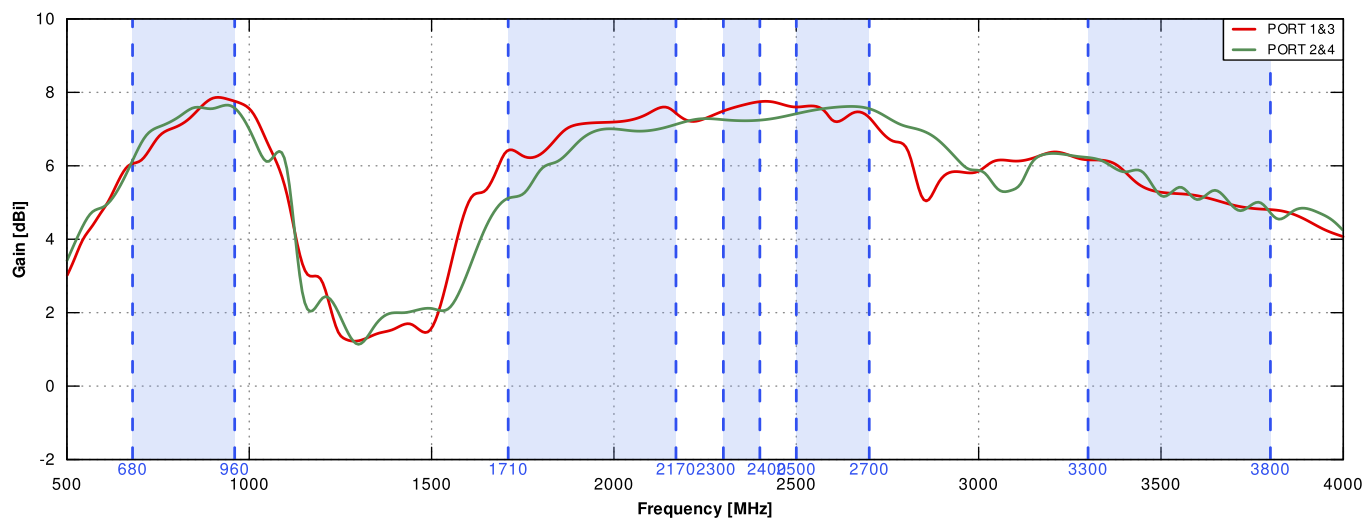
QUECTEL	5G RM500Q-AE, 5G RM500Q-GL, 5G RM502Q-GL, 5G RM505Q-AE, 5G RM510Q-GL, 5G RM520N-EU, 5G RM520N-GL, 5G RM521F-GL, 5G RM530N-GL, LTE-A EM160R-GL
ROBUSTEL	EG5120, R2000, R5020, R5020 Lite
SIEMENS	6GK5853-2EA00-2DA1, 6GK5856-2EA00-3AA1, 6GK5856-2EA00-3DA1
TELTONIKA	RUTX12, RUTX14, RUTX50, TRB500
ZYXEL	Nebula FWA510, NR5103
OTHER	4 * SMA

PLOTS

VSWR

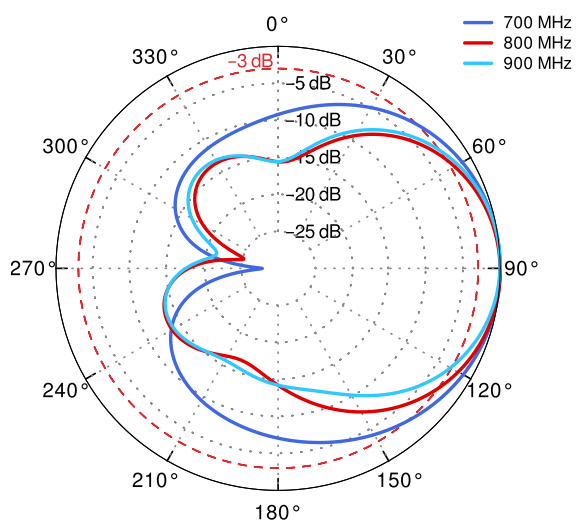


Gain

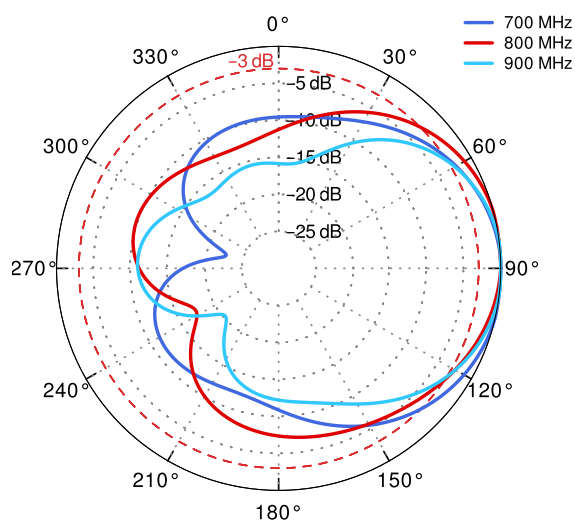


From 700MHz to 900MHz

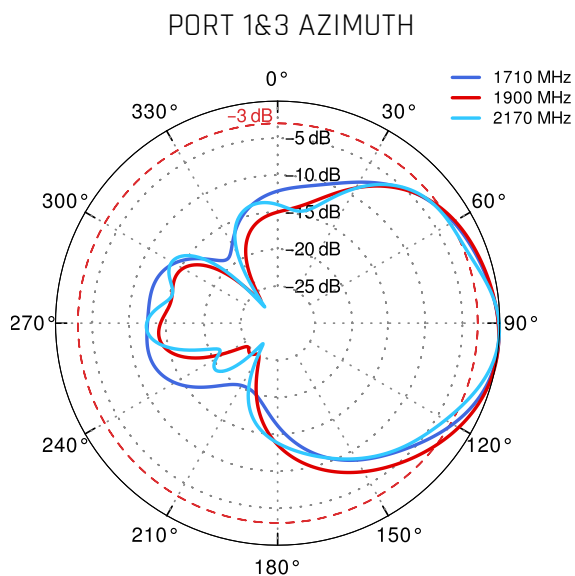
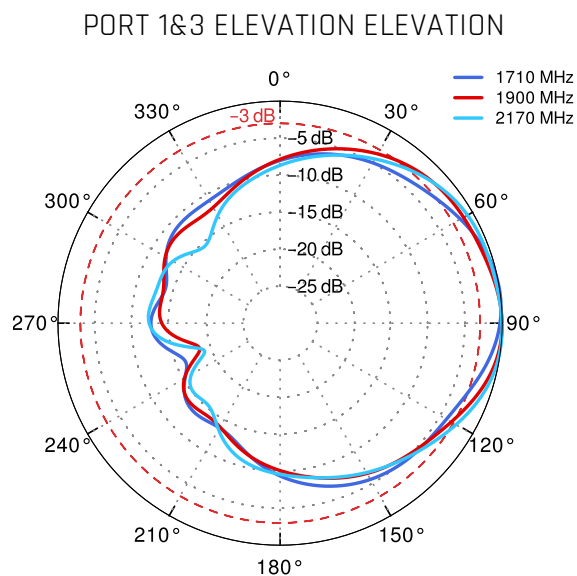
PORT 1&3 ELEVATION



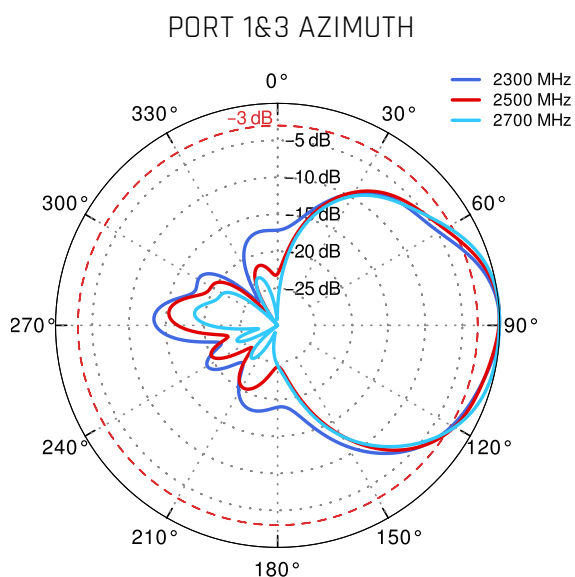
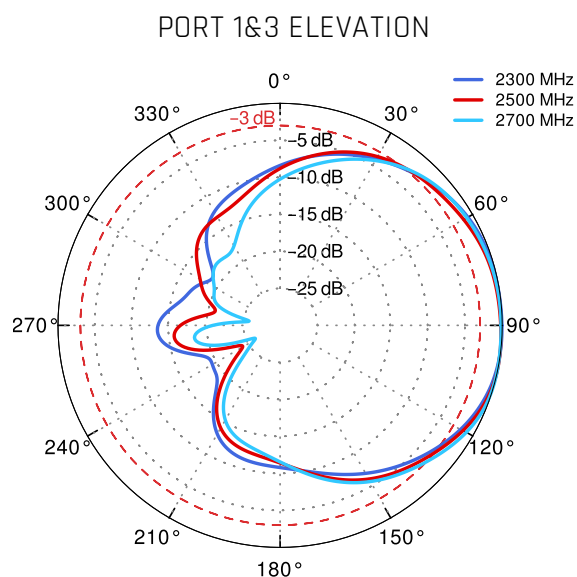
PORT 1&3 AZIMUTH



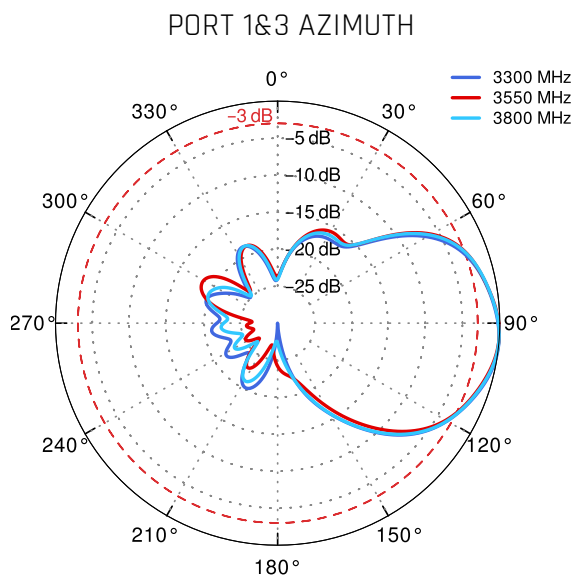
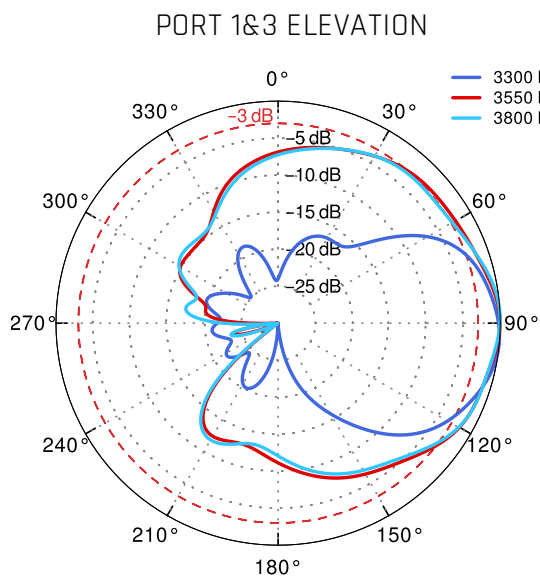
From 1.71GHz to 2.17GHz



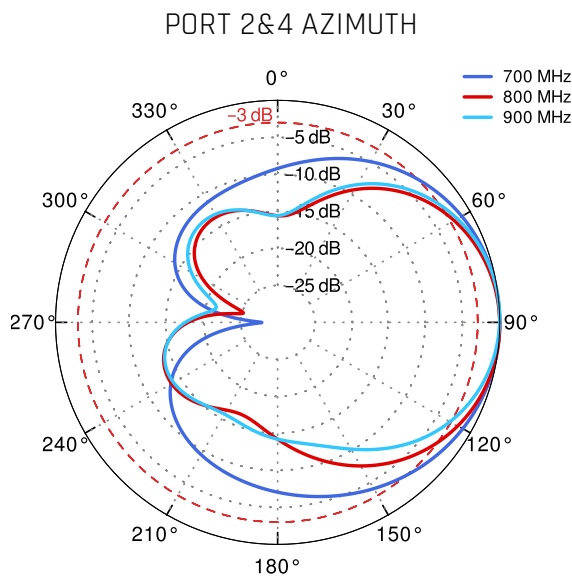
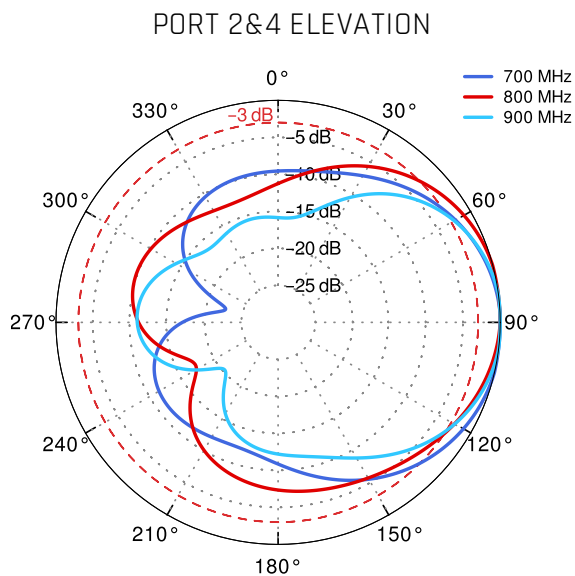
From 2.3GHz to 2.7GHz



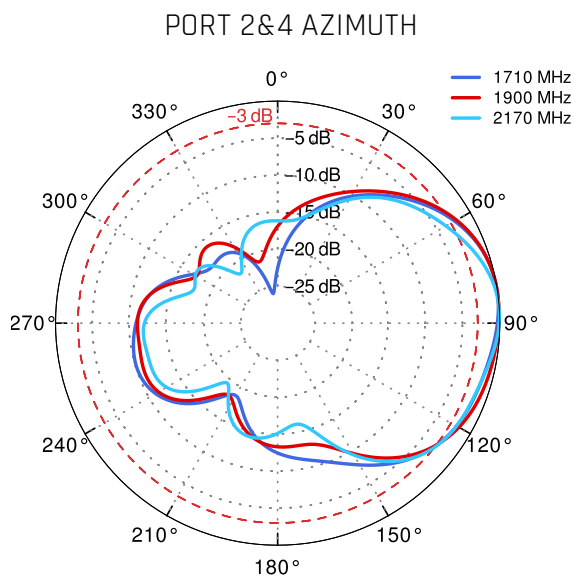
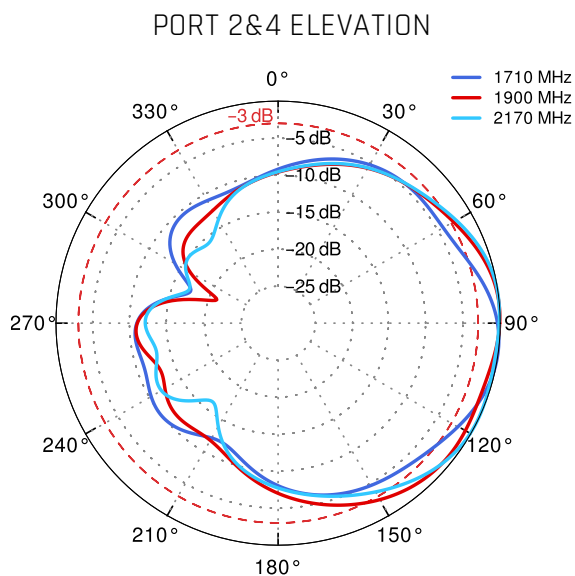
From 3.3GHz to 3.8GHz



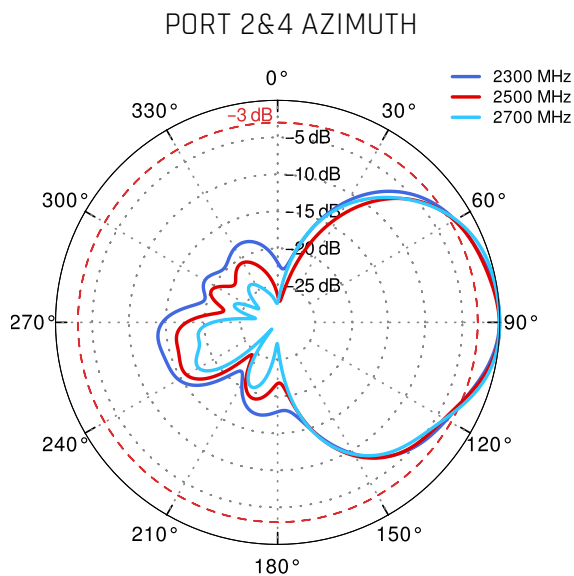
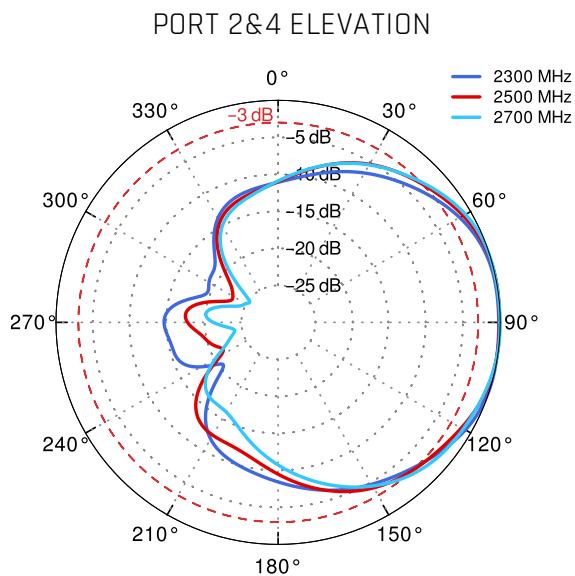
From 700MHz to 900MHz



From 1.71GHz to 2.17GHz

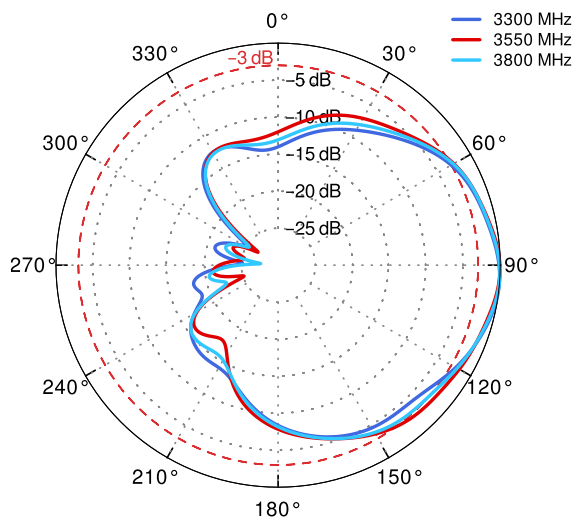


From 2.3GHz to 2.7GHz

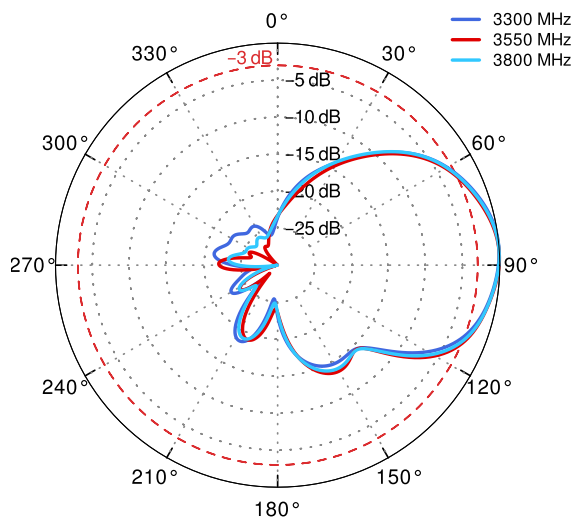


From 3.3GHz to 3.8GHz

PORT 2&4 ELEVATION



PORT 2&4 AZIMUTH



DIMENSIONS

