

QuPanel 5G/LTE MIMO 2x2

Directional High Power multiband 5G/LTE MIMO 2x2 antenna

QuPanel 5G/LTE directional MIMO 2x2 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, n256
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
VSWR	<1.70, max <2.00
BEAMWIDTH	70° /70° ±15°
POLARIZATION	Dual polarized X-Pol
IMPEDANCE	50 Ω

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: AP5G2) or 10m (P/N: AP5G2-1) or Nf connector (P/N: AP5G2-N)
CABLE TYPE	LMR195 white
CONNECTOR TYPE	2x integrated cables with SMA plug or 2x Nf connectors
MAST DIAMETER	25-66mm 0.98-2.60 inch

FREQUENCY BANDS

LTE / 4G

	1	2	3	4	5	7	8	
	9	10	12	13	14	17	18	
	19	20	22	25	26	27	28	
694 MHz	29	30	33	34	35	36	37	3800 MHz
	38	39	40	41	42	43	44	
	48	49	52	53	65	66	67	
	68	69	85	103	106			

5G

	n1	n2	n3	n5	n7	n8	n12	
	n13	n14	n18	n20	n25	n26	n28	
694 MHz	n29	n30	n34	n38	n39	n40	n41	3800 MHz
	n48	n53	n65	n66	n67	n78	n80	
	n81	n82	n83	n84	n85	n86	n89	
	n90	n95	n97	n98	n100	n101	n256	

COMPATIBLE ROUTERS

VARIANTS: AP5G2, AP5G2-1

TELTONIKA

RUT200, RUT206, RUT230, RUT240, RUT241, RUT260, RUT271, RUT276, RUT281, RUT900, RUT901, RUT950, RUT951, RUT951 PoE+, RUT955, RUT956, RUT976, RUT981, RUT986, RUTC40, RUTC41, RUTM09, RUTM11, RUTM16, RUTM56, RUTX09, RUTX11, TRB160

ROBUSTEL

EG5100, LG5100, R1500, R1510, R1511, R1511P, R1520 Global, R1520-4L (S), R1520-4L (V), R2010, R2011, R201x, R2110, R2120, R3000, R3000 Industrial, R3000 LG, R3000 Lite, R3000 Quad, R3010

ACKSYS

AirBox LTE, AirWan

ADVANTECH

ICR-2031

ANYBUS

Wireless Router WLAN

CISCO

Z4C

COMSET

CM210A-W, CM210Q-W, CM510Q-W, CM685T-W, CM685V-1, CM685V-4, CM685V-6, CM685V-6-G, CM820Q-4, CM820Q-6, CM820T-W, CM820V-4, CM820V-W

D-LINK

DWR-960, G415 AX1500, G416 AX1500, N300 4G

DIGI

6310-DX, 6330-MX, EX12, EX15, IX10, IX15, IX20, IX30, WR31

ERICSSON (CRADLEPOINT)

CBA550, E100, E102, IBR200, IBR600C, IBR900, L950, R500, R920, S400, S700

FORTINET

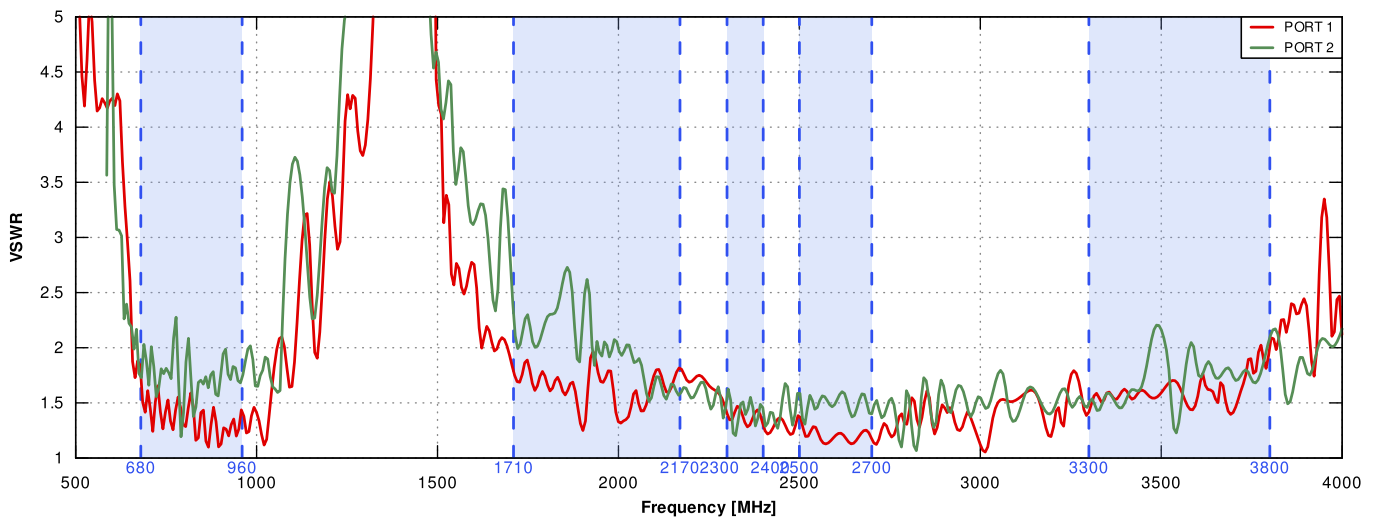
FEX-101F, FEX-201F, FEX-211E, FEX-212F, FortiGate Rugged 60F-3G4G, FortiGate Rugged 70F-3G4G

FOUR-FAITH	4G Cellular Router F-R100, 4G Industrial Computer F4931-R2H, 4G Industrial Computer F4932-R2H-DF1, Android Industrial Computer F4932-R1Q, Cellular Wireless Router F-R200, Dual Sim 4G Router F3X46, Dual-sim WiFi Router F3946, Edge Computing Gateway F-G100, Industrial WiFi Router F3X36Q, LAN Port Router F3X26 V2, LTE Industrial Router F3X27 V2, LTE Wireless Router F3x36
INHAND	IR302, IR315
MIKROTIK	RB912, RB922, RBM11G, RBM33G
MILESIGHT	UR32
OPTION	CloudGate LTE WW CAT4
PEPLINK	Balance 20X, Balance 310 5G, MAX BR1 Classic, MAX BR1 ENT, MAX BR1 IP55, MAX BR1 M2M, MAX BR1 Mini, MAX BR1 Mini (HW3), MAX BR1 Mini Core (HW3), MAX BR1 Mini M2M, MAX BR1 MK2, MAX BR1 Pro, MAX BR1 Slim
PERLE	IRG5410, IRG5520, IRG5521, IRG5540, IRG5541
PROROUTE	H685 4G Router, H685 LTE 4G CAT6 Router, H820 M2M 4G Router
QUECLINK	WR220
ROBUSTEL	EG5100, LG5100, R1500, R1510, R1511, R1511P, R1520 Global, R1520-4L (S), R1520-4L (V), R2010, R2011, R201x, R2110, R2120, R3000, R3000 Industrial, R3000 LG, R3000 Lite, R3000 Quad, R3010
SEMTECH (SIERRA WIRELESS)	AirLink EX400, AirLink LX40, AirLink LX60, AirLink MP70, AirLink RV50X, AirLink RV55, AirLink RX400, AirLink RX55
SIEMENS	6GK5876-4AA00-2BA2, 6GK5876-4AA00-2DA2, 6GK5876-4AA10-2BA2
TELTONIKA	RUT200, RUT206, RUT230, RUT240, RUT241, RUT260, RUT271, RUT276, RUT281, RUT900, RUT901, RUT950, RUT951, RUT951 PoE+, RUT955, RUT956, RUT976, RUT981, RUT986, RUTC40, RUTC41, RUTM09, RUTM11, RUTM16, RUTM56, RUTX09, RUTX11, TRB160

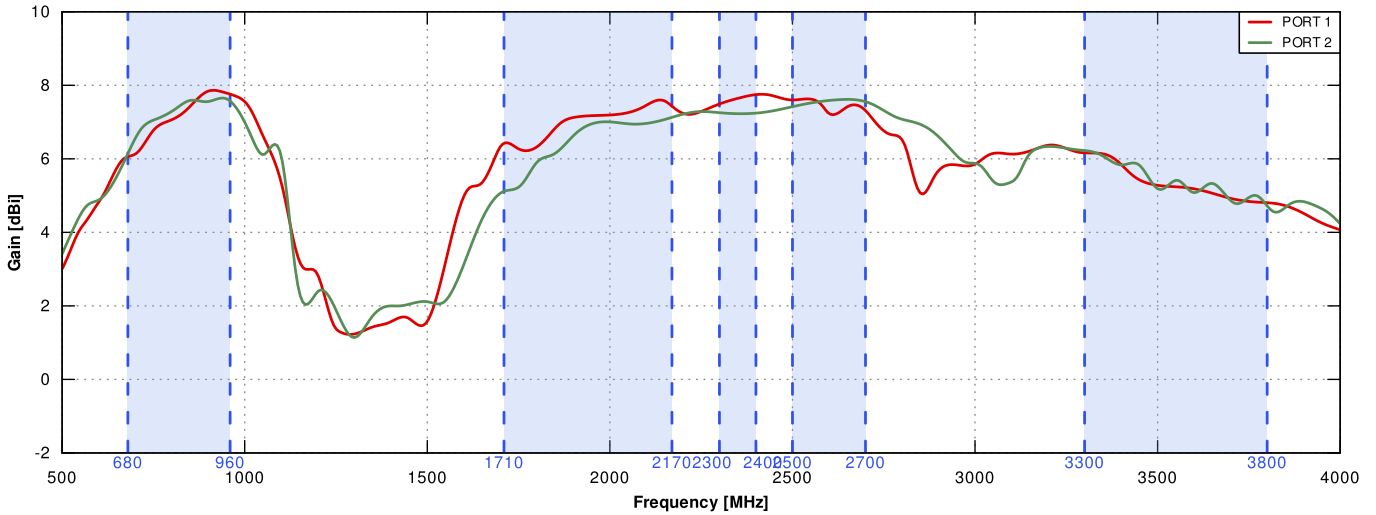
WAVETEL	W2400 LTE , W3600 4G/LTE Dual WAN, W3604 Multi-WAN, W3608 Multi-WAN, W421, W4600, W4600-S2
WLINK	ER120, G200, G510, G520, R210, R220, R520
ZYXEL	LTE3202-M437, LTE3301-PLUS, LTE5388-M804, LTE5398-M904, NR5101
OTHER	2 * SMA, 3 * SMA

PLOTS

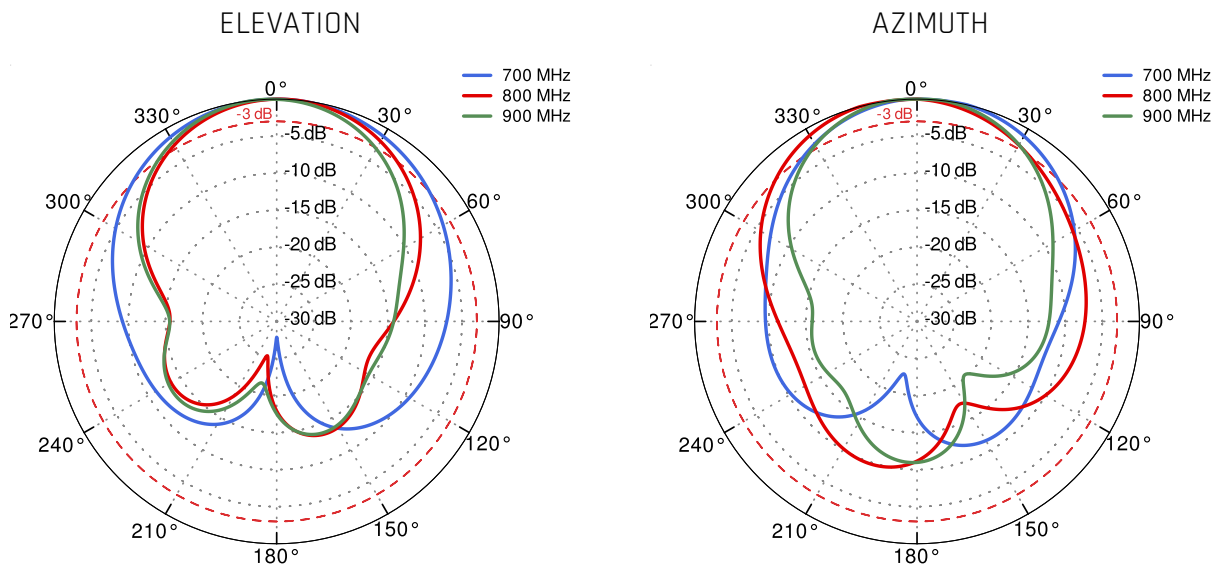
VSWR



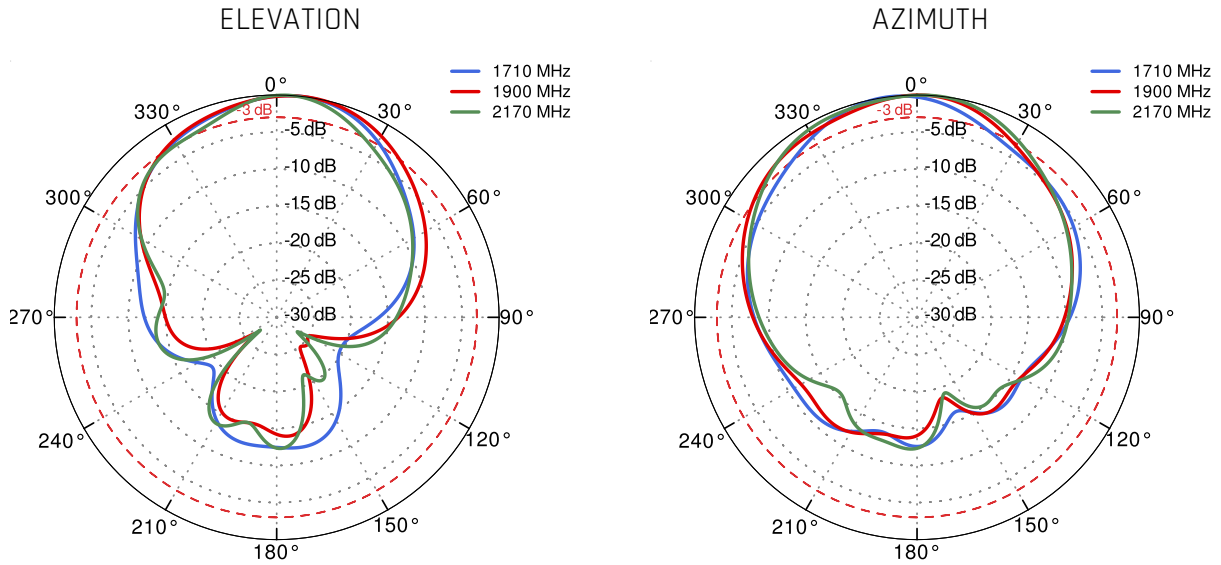
Gain



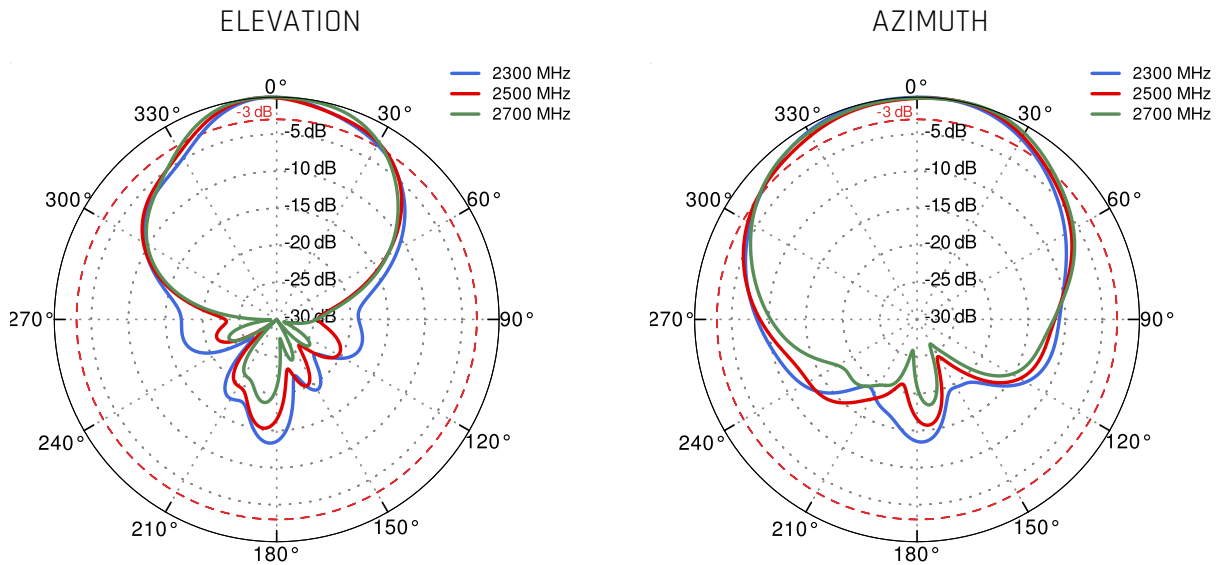
Port 1 700MHz to 900MHz



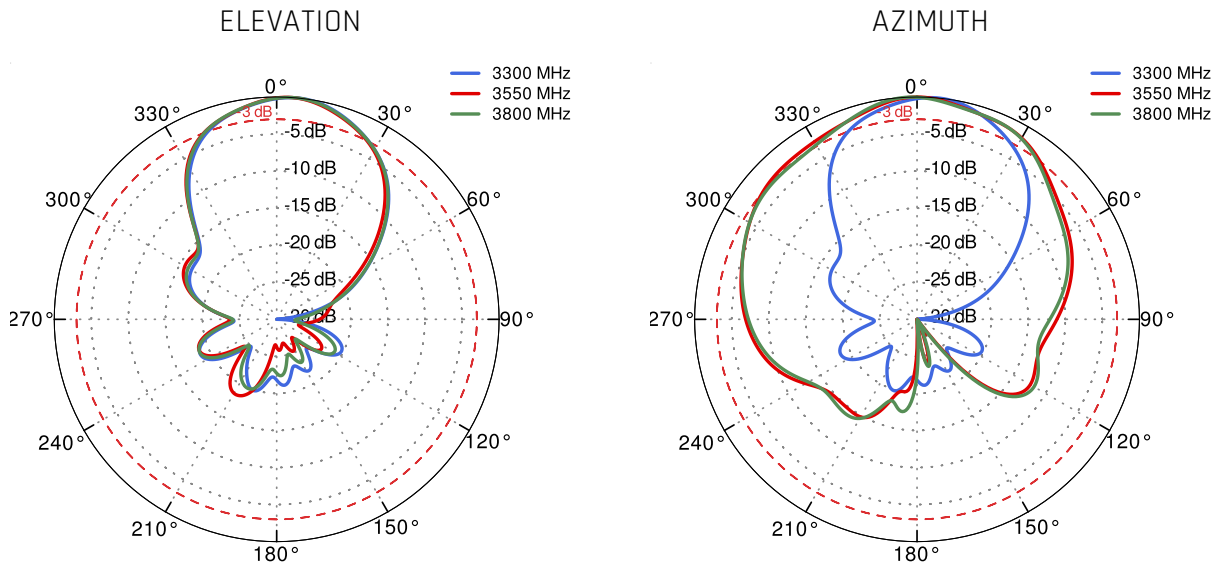
Port 1 1.71GHz to 2.17GHz



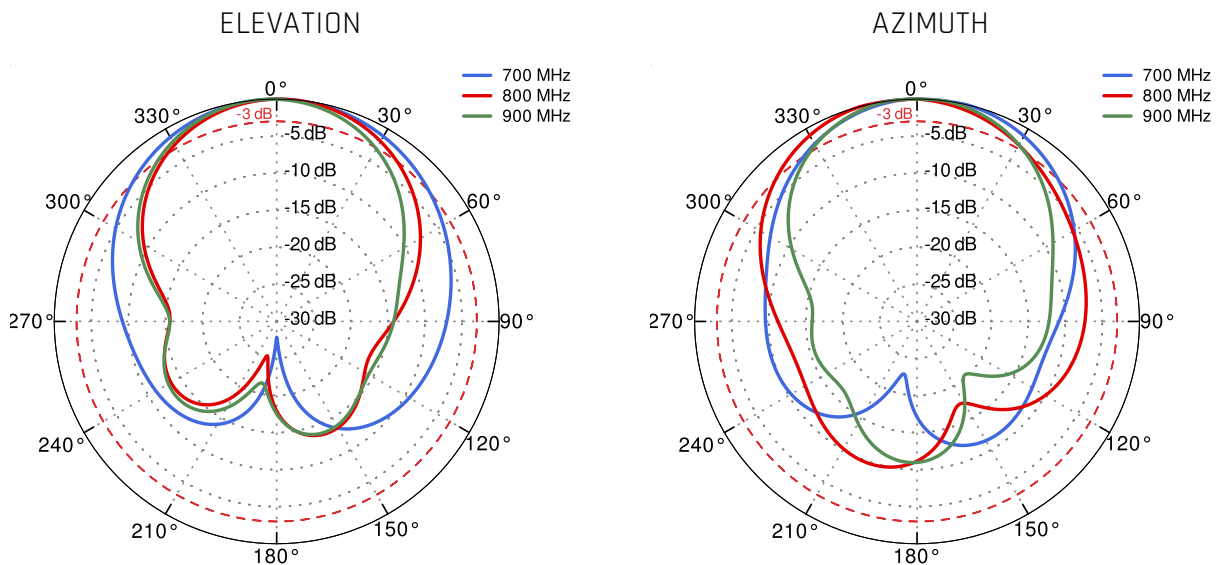
Port 1 2.3GHz to 2.7GHz



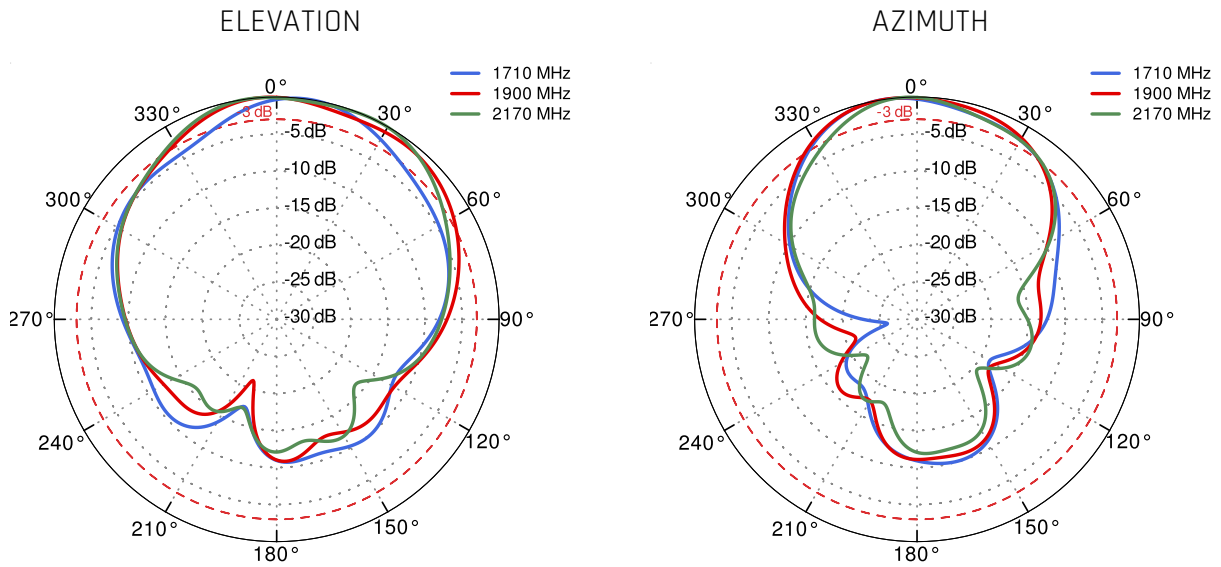
Port 1 3.3GHz to 3.8GHz



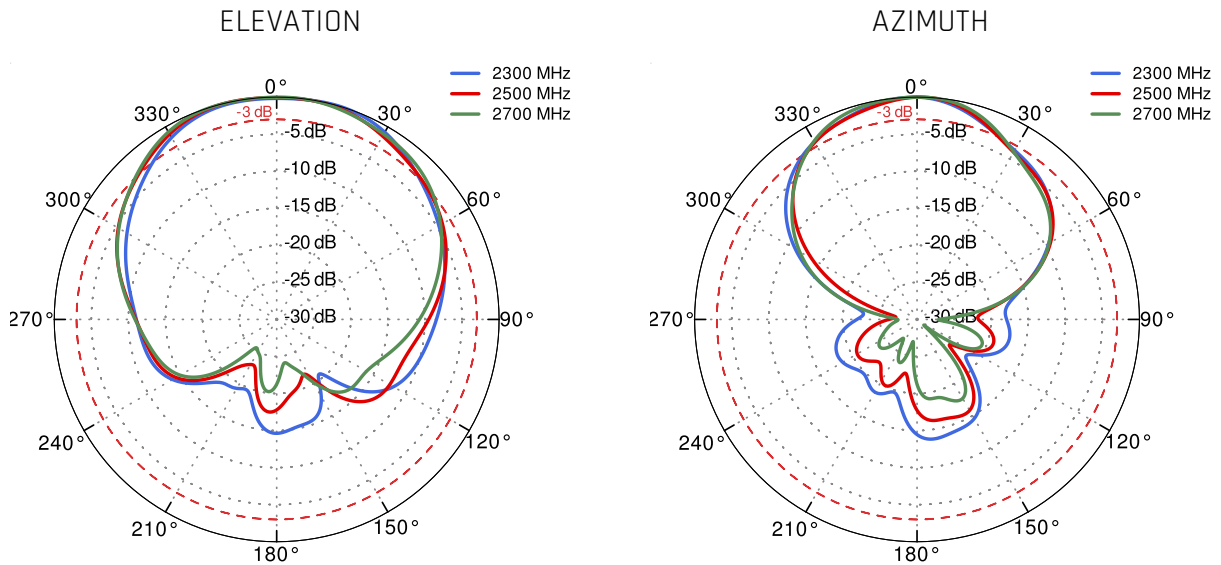
Port 2 700MHz to 900MHz



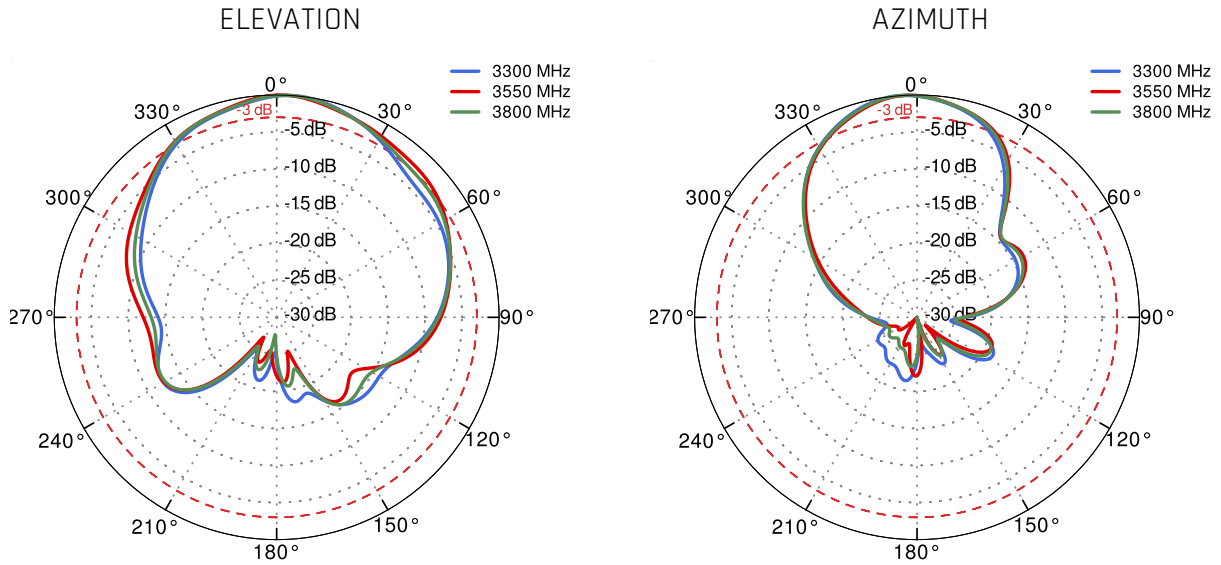
Port 2 1.71GHz to 2.17GHz



Port 2 2.3GHz to 2.7GHz



From 3.3GHz to 3.8GHz



DIMENSIONS

