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 | 4x4 MIMO | 694-3800MHz | 7 dBi | DIRECTIONAL | IP 67 | -40° TO +80°



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 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

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

MECHANICAL SPECIFICATION

MATERIALS	ASA, 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	694 MHz	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		
	3800 MHz							

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

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	CALYX, RUTC42, RUTC50, RUTC54, RUTM30, RUTM31, RUTM51, RUTM54, RUTM55, RUTM56, RUTM59, RUTX12, RUTX14, RUTX50, TRB500, TRB501
ROBUSTEL	EG5120, EG5200, R2000, R2120 5G, R5010, R5020, R5020 Lite, R5030
CISCO	CG418-E, CG522-E, MG41E, MG51E, MG52E
COMSET	CM550W, CM580W, CM685VX, CM770W-6, CM950W
CUDY	P5
DIGI	EX50, IX25, IX40, TX54 LTE-Advanced, TX64
EE 5G (5GEE)	Smart 5G Hub
ERICSSON (CRADLEPOINT)	E300, E3000, IBR1700, R1900, R2400, 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

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

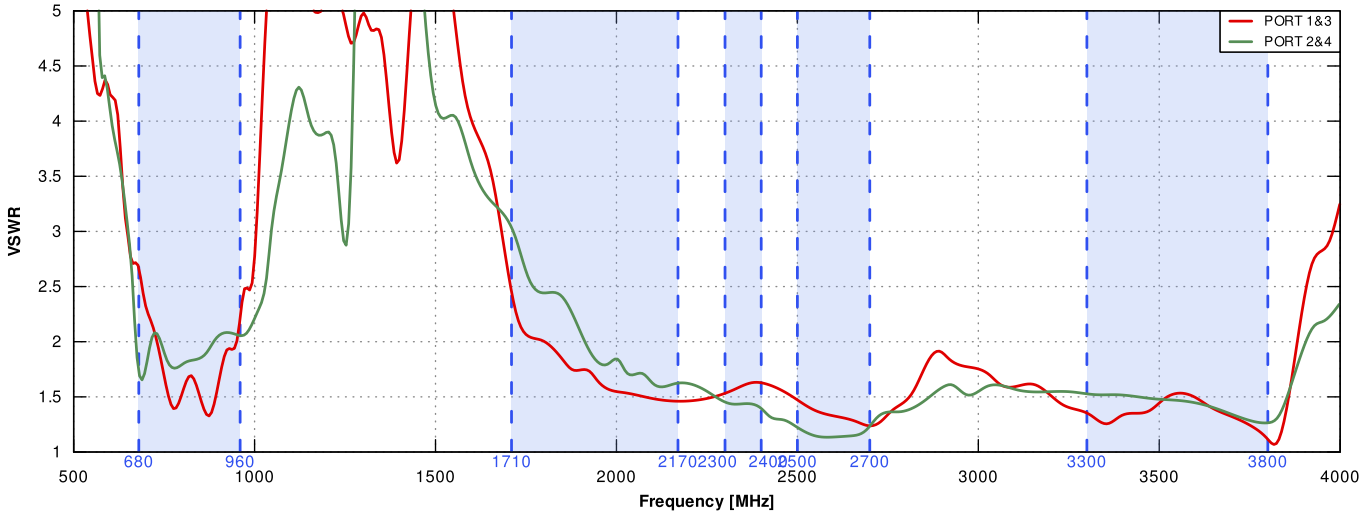
FORTINET	FEX-311F, FEX-311F
FOUR-FAITH	5G Industrial CPE F-NR200, 5G Industrial Router F-NR100, 5G SIM WiFi Router F-NR120, 5G Smart Light Pole Gateway F-G300, 5G WiFi Router with SIM Card Slot F-NR130, Smart Light Pole Gateway F-G310
MILESIGHT	UF31, UR75
PEPLINK	Balance 310 5G, Balance 310 fiber 5G, 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
PERLE	IRG7440
PROROUTE	H685 WRT M2M 5G Router, H900 5G Router
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, EG5200, R2000, R2120 5G, R5010, R5020, R5020 Lite, R5030
SEMTECH (SIERRA WIRELESS)	AirLink MG90 5G, AirLink XR60, EM9190, EM9191, EM9291, EM9293
SIEMENS	6GK5853-2EA00-2DA1, 6GK5856-2EA00-3AA1, 6GK5856-2EA00-3DA1
SIMCOM	A8200E, SIM8202X-M2, SIM8260G-M2, SIM8262X-M2 Series, SIM8380G-M2
TELIT CINTERION	FN980/FN980m, FN990A40/A28, FN990B34/B40, LM960A18 Series, MV31, MV32
TELTONIKA	CALYX, RUTC42, RUTC50, RUTC54, RUTM30, RUTM31, RUTM51, RUTM54, RUTM55, RUTM56, RUTM59, RUTX12, RUTX14, RUTX50, TRB500, TRB501
WAVETEL	W4600-NR 5G, W4A00 5G, WNR320 5G, WNR340 5G
WLINK	G230, G530, G530

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

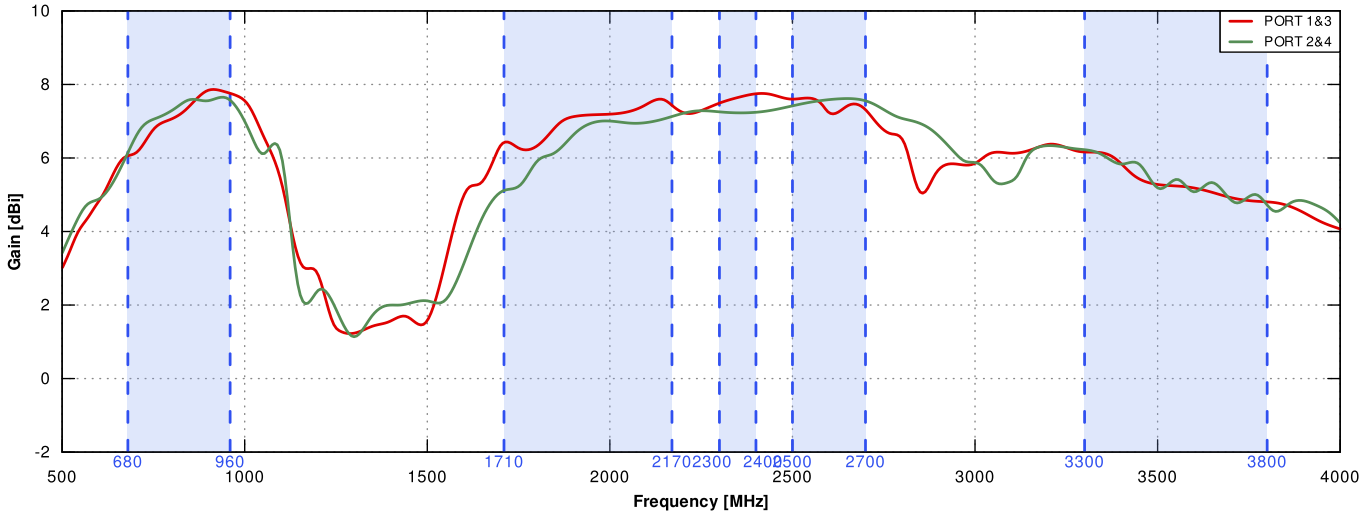
ZTE	ZM9020
ZYXEL	Nebula FWA510, NR5103
OTHER	4 * SMA

PLOTS

VSWR



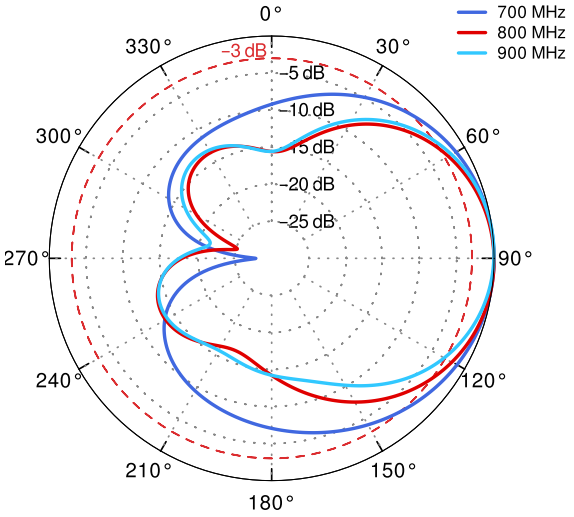
Gain



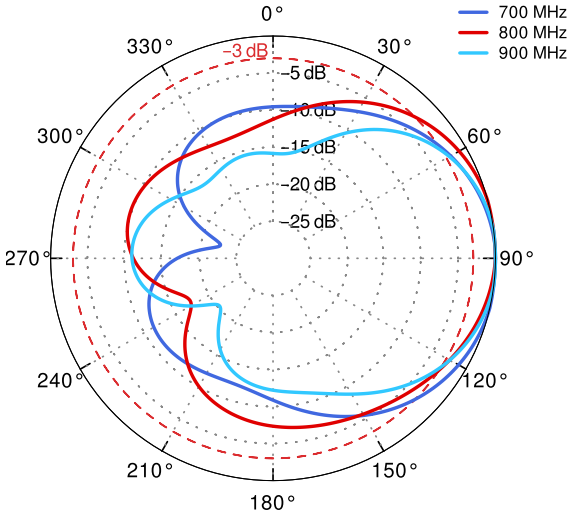
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

From 700MHz to 900MHz

PORT 1&3 ELEVATION

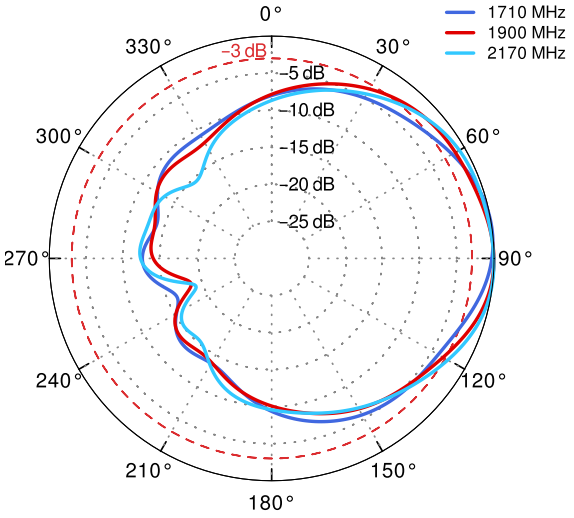


PORT 1&3 AZIMUTH

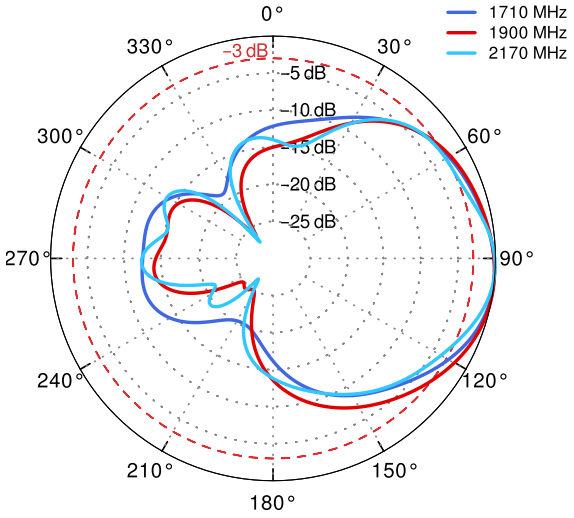


From 1.71GHz to 2.17GHz

PORT 1&3 ELEVATION ELEVATION



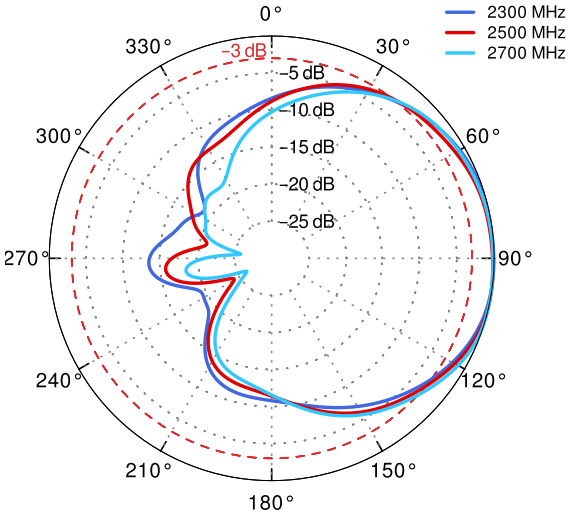
PORT 1&3 AZIMUTH



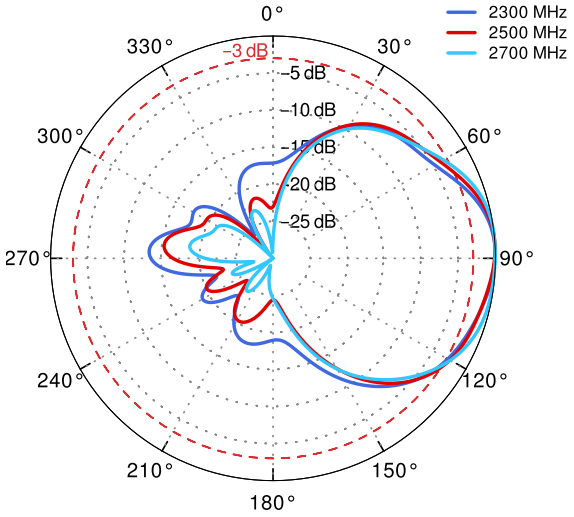
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

From 2.3GHz to 2.7GHz

PORT 1&3 ELEVATION

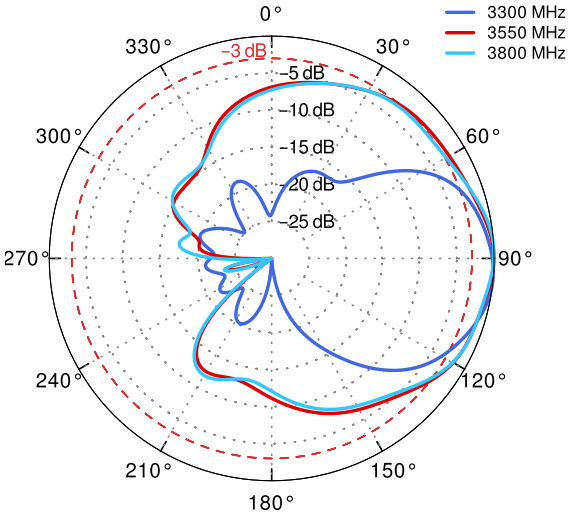


PORT 1&3 AZIMUTH

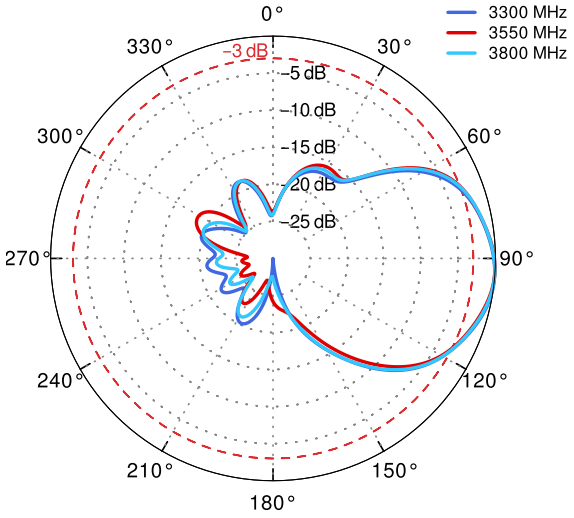


From 3.3GHz to 3.8GHz

PORT 1&3 ELEVATION



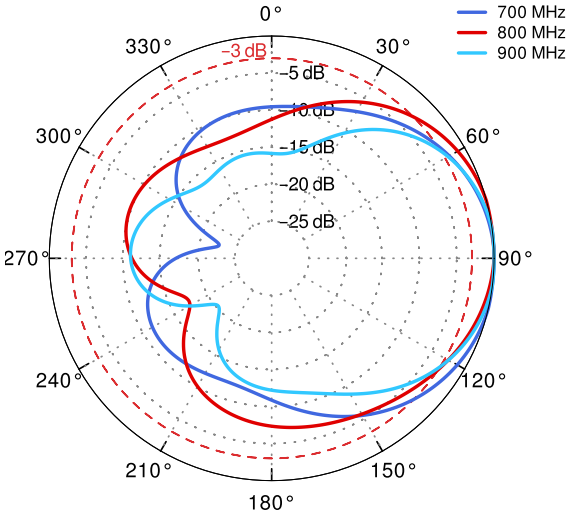
PORT 1&3 AZIMUTH



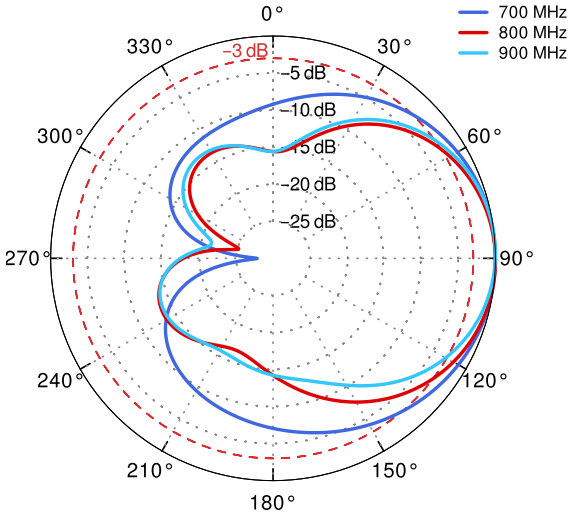
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

From 700MHz to 900MHz

PORT 2&4 ELEVATION

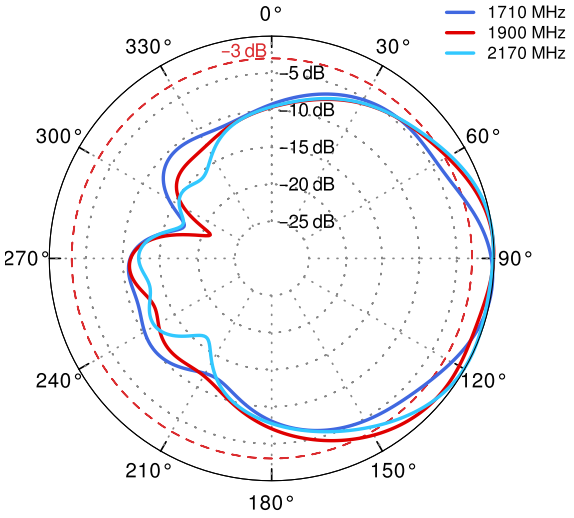


PORT 2&4 AZIMUTH

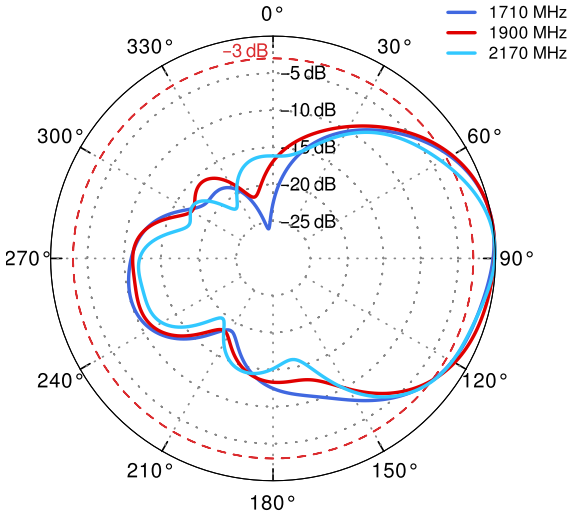


From 1.71GHz to 2.17GHz

PORT 2&4 ELEVATION



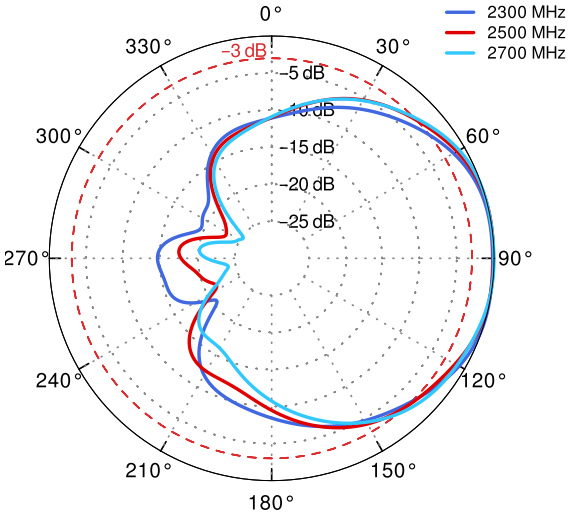
PORT 2&4 AZIMUTH



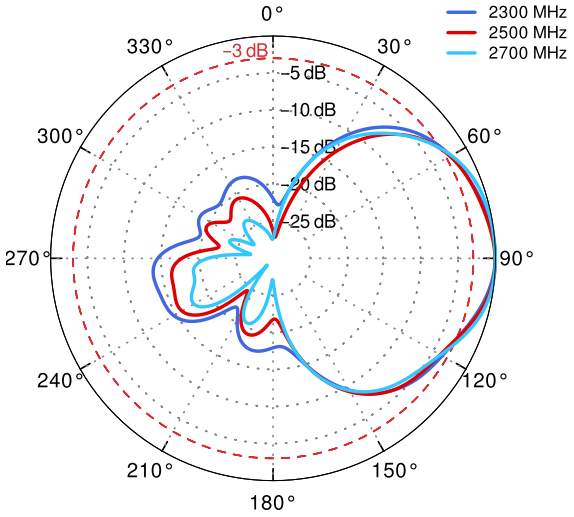
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

From 2.3GHz to 2.7GHz

PORT 2&4 ELEVATION

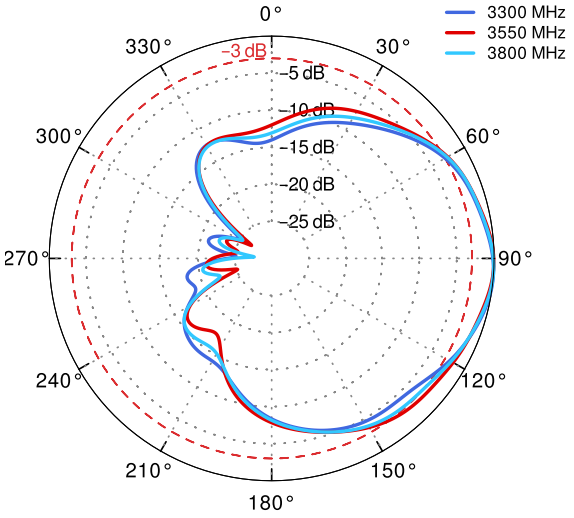


PORT 2&4 AZIMUTH

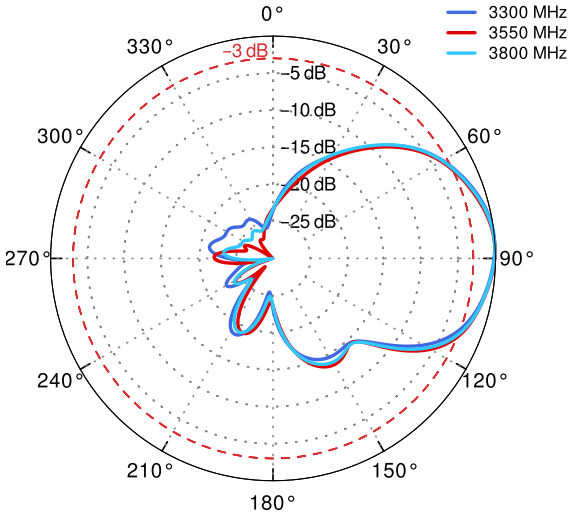


From 3.3GHz to 3.8GHz

PORT 2&4 ELEVATION

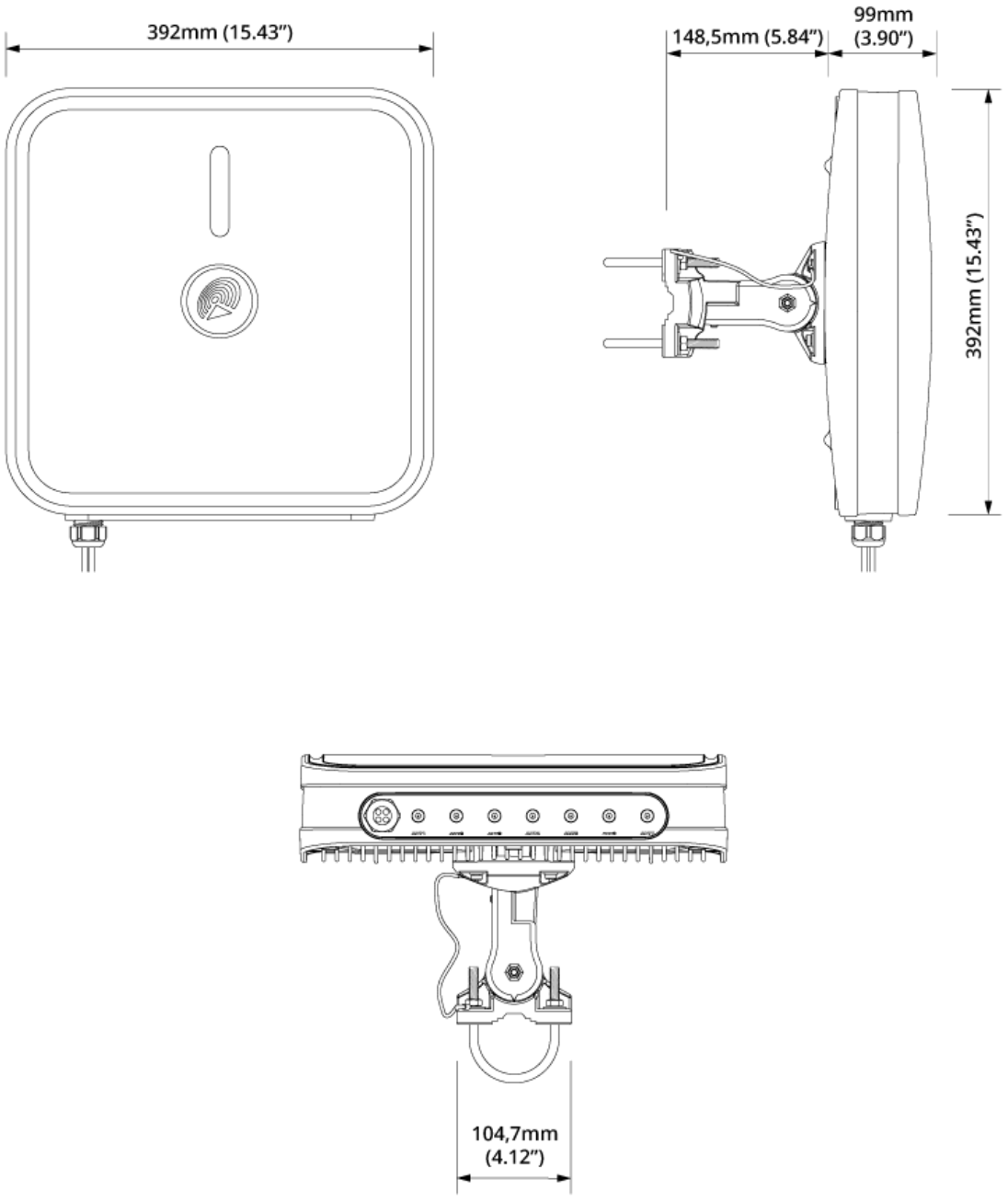


PORT 2&4 AZIMUTH



Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

DIMENSIONS



QuWireless
WWW.QUWIRELESS.COM
Sales email: sales@quwireless.com
Tel: +48 513 900 416
Support email: support@quwireless.com
Website: www.quwireless.com
Address: Wireless Instruments Sp. z o.o., ul. Kościuszki 27, 52-116 Iwiny, Poland

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.