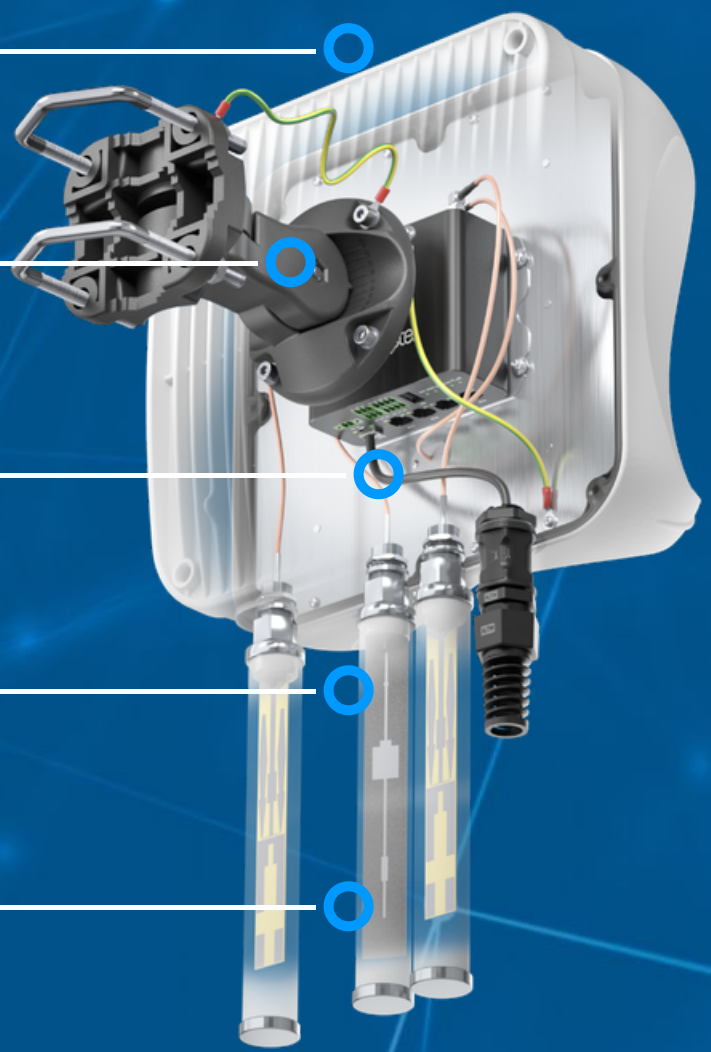
QuMax for Robustel R1520-LG

INTEGRATED LORA ANTENNA + WIFI OMNI ANTENNA + MULTI-BAND LTE OMNI ANTENNA + PLACE TO INSTALL ROBUSTEL R1520-LG (ALL-IN-ONE)

QuMax all-in-one antenna for Robustel R1520-LG router is the perfect choice for extending the reach and reliability of your Long Range (LoRa) wireless communication networks. It has embedded omni LTE, omni Wi-Fi and LoRa antenna. If you use R1520-LG with QuMax antenna, you get an integrated complete solution with embedded gateway and multi band antennas in one enclosure.

4G LTE | Wi Fi 6E | 2x2 MIMO | 694-2700MHz | 4 dBi | HELIUM | 868MHz | IP 68 | -40° TO +80°

- OUTDOOR ANTENNA WORKS IN **ANY WEATHER CONDITIONS**, IP68
- MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION
- ANTENNA PERFECTLY MATCHED WITH THE ROBUSTEL R1520-LG
- ALL ANTENNAS AND ROBUSTEL ROUTER INTEGRATED IN ONE ENCLOSURE
- MADE IN **EUROPE**



LORA ANTENNA SPECIFICATION

FREQUENCY	868 MHz (EU868, IN865, RU864)
GAIN	8.5 dBi
VSWR	<1.80, max <2.00
BEAMWIDTH	75°/75° ±10°
POLARIZATION	Vertical
IMPEDANCE	50 Ω
FRONT TO BACK	>17 dB

LTE ANTENNA SPECIFICATION

FREQUENCY	694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz
GAIN	694 - 960 MHz : 2 dBi 1.7 - 2.2 GHz : 2 dBi 2.2 - 2.7 GHz : 3 dBi
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, 33, 34, 35, 36, 37, 38, 39, 44, 65, 66, 67, 68, 69, 85, 103, n80, n81, n82, n83, n84, n86, n89, n95, n98, n100, n101, n256
VSWR	<1.50, max <2.50
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω

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WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.4 - 2.5 GHz 5.0 - 7.125 GHz
GAIN	2.40 - 2.50 GHz : 6 dBi 5.0 - 7.125 GHz : 7.5 dBi
VSWR	<1.70, max <2.00
BEAMWIDTH	360°/25° +/- 5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω

MECHANICAL SPECIFICATION

MATERIALS	ASA, aluminum, PTFE
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP68
DIMENSIONS	160 x 160 x 240 mm 6.3 x 6.3 x 9.45 inch
WEIGHT	1.5 kg 3.31 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F
ENCLOSURE RECOMMENDED TIGHTENING TORQUE	0.6 - 0.8 Nm
MAST DIAMETER	25-66mm 0.98-2.60 inch

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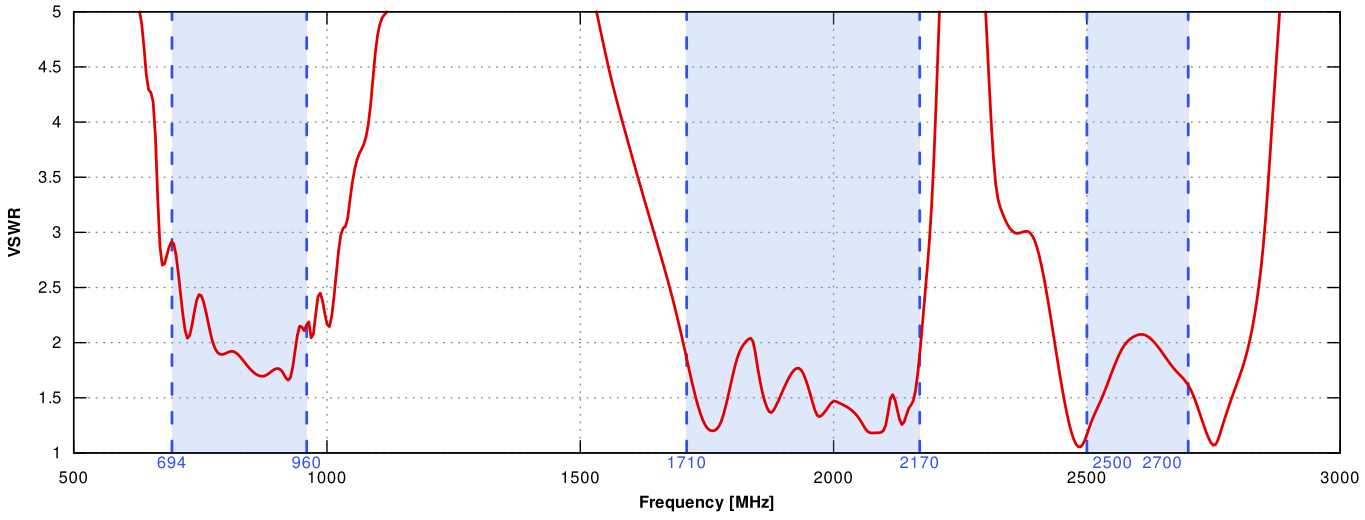
FREQUENCY BANDS

LTE / 4G GSM	617 MHz	5	6	8	12	13	14	17	960 MHz
		18	19	20	26	27	28	29	
		44	67	68	85	n81	n82	n83	
		n89							
LTE / 4G UMTS	1710 MHz	1	2	3	4	9	10	25	2170 MHz
		33	34	35	36	37	39	59	
		62	n80	n84	n86	n95			
LTE / 4G WCS DARS	2300 MHz	30	40						2400 MHz
LTE / 4G	2400 MHz	7	38	41	53	69	n90		2700 MHz

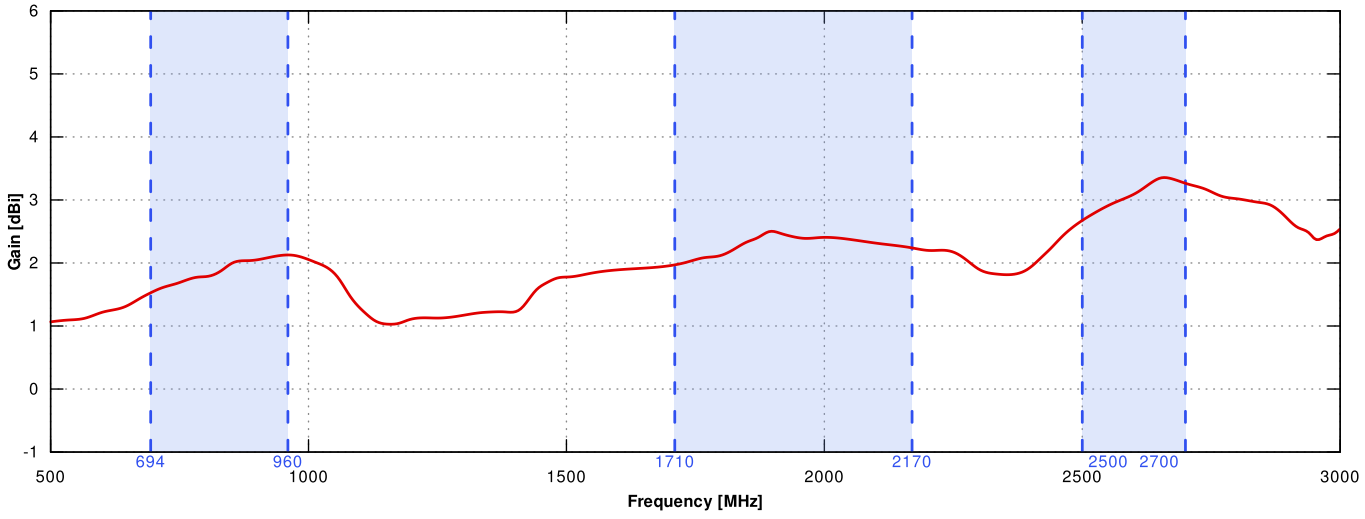
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PLOTS

LTE VSWR

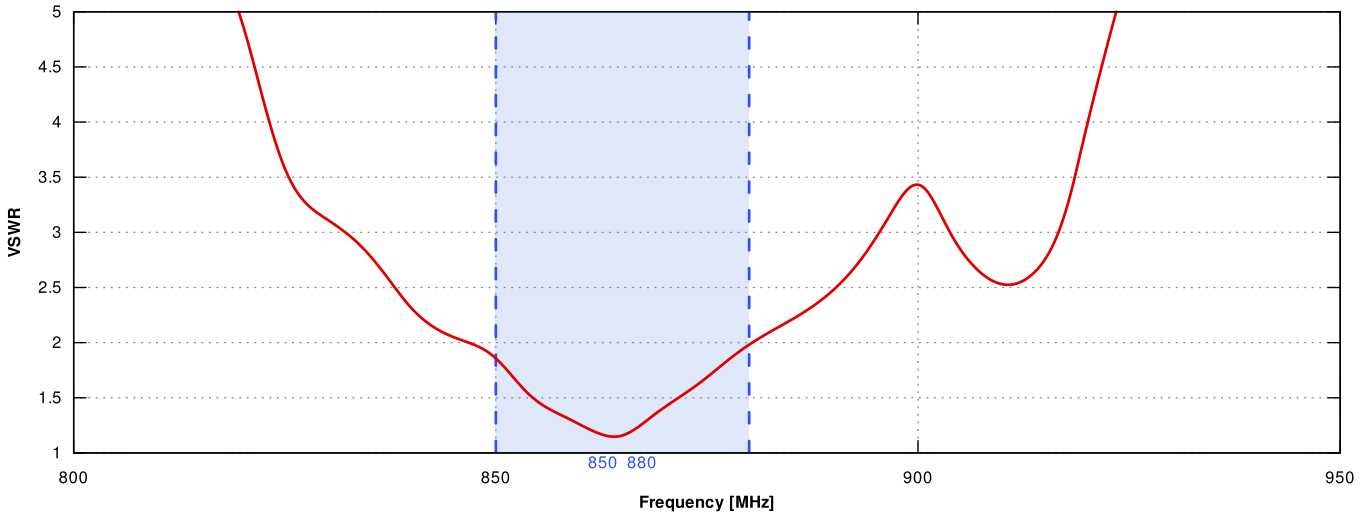


LTE Gain

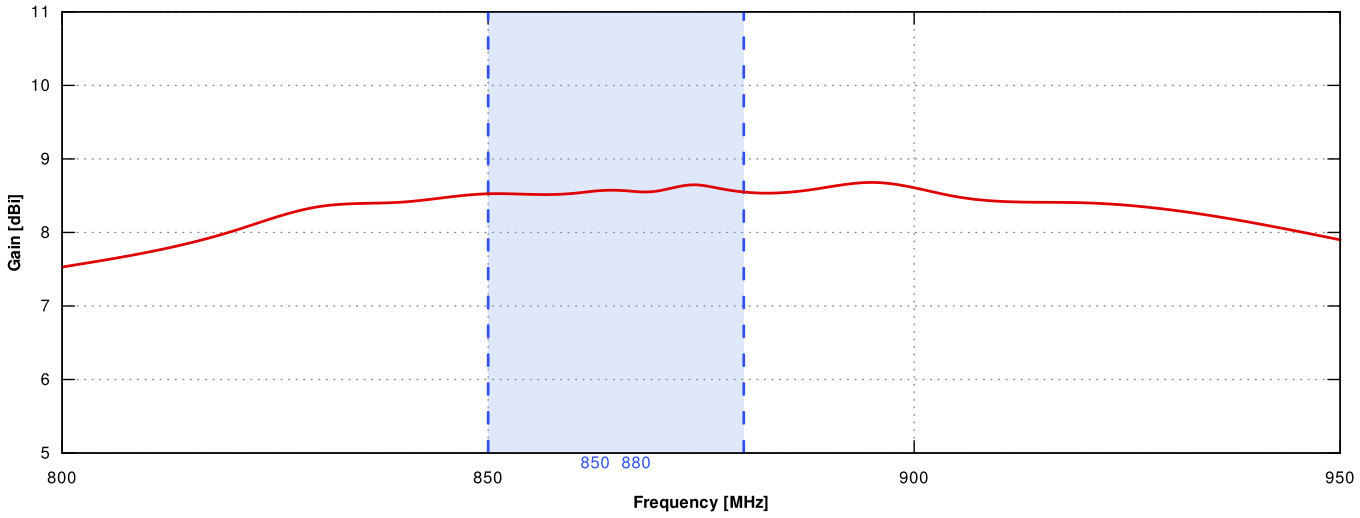


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LoRa VSWR

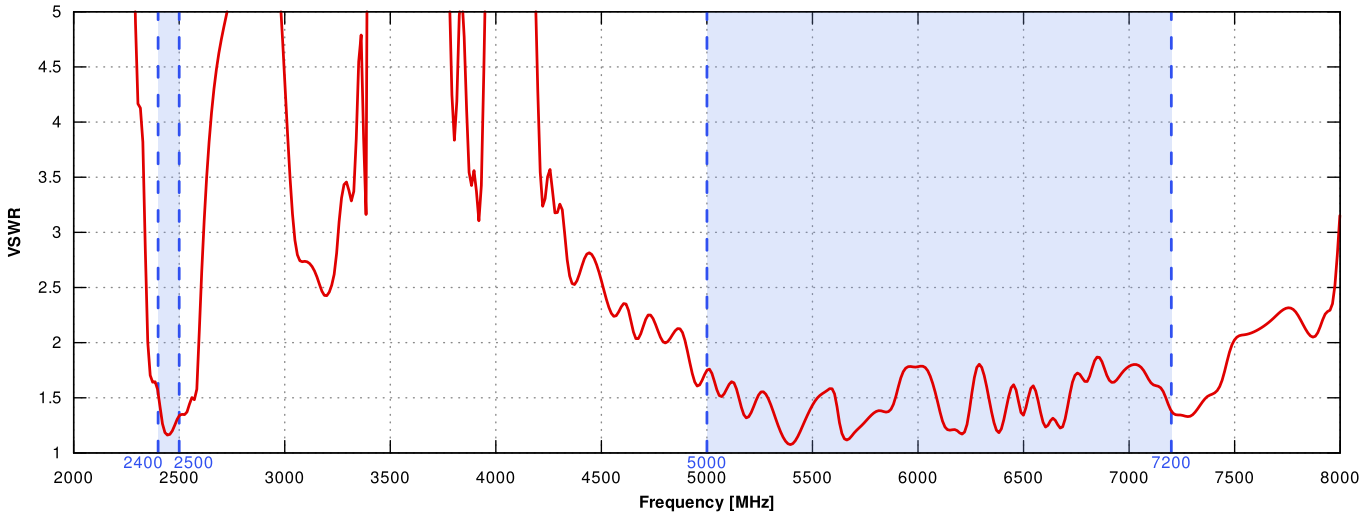


LoRa Gain

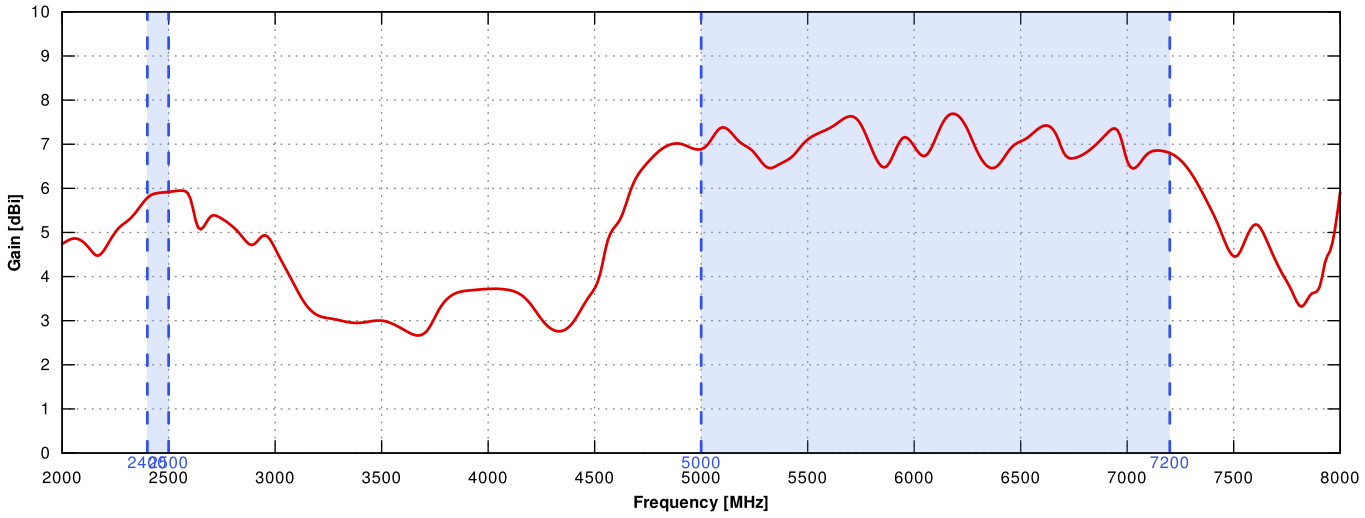


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Wi-Fi VSWR



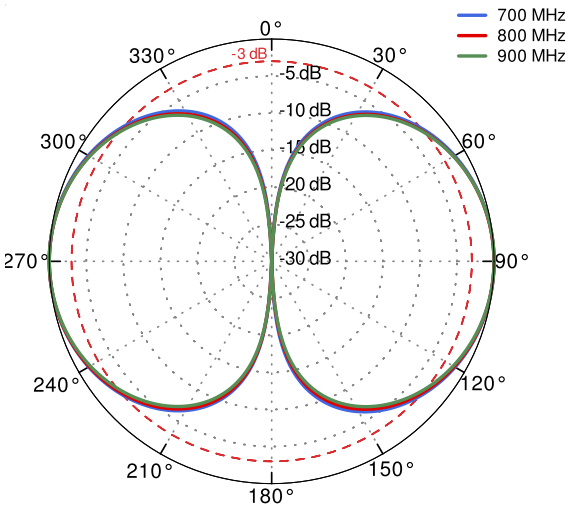
Wi-Fi Gain



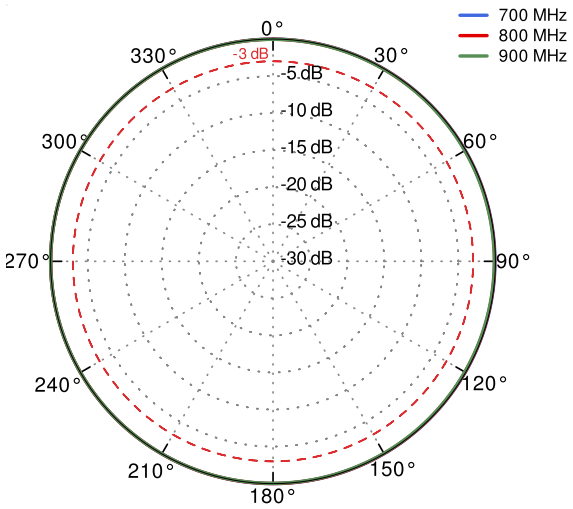
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LTE From 700MHz to 900MHz

ELEVATION

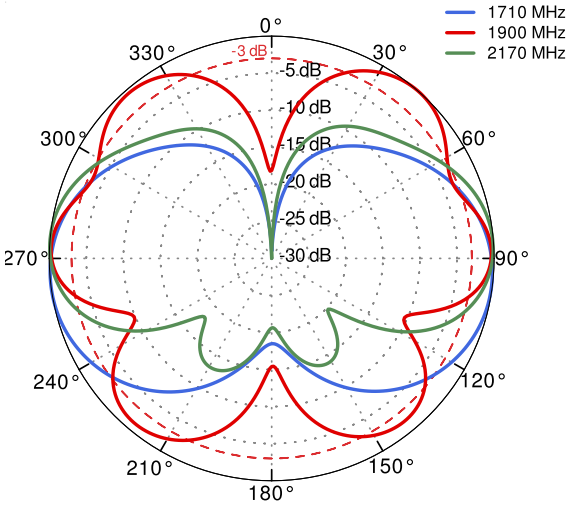


AZIMUTH

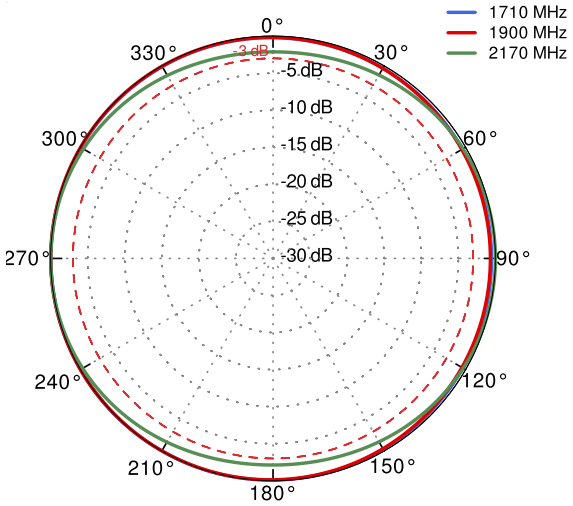


LTE From 1.71GHz to 2.17GHz

ELEVATION



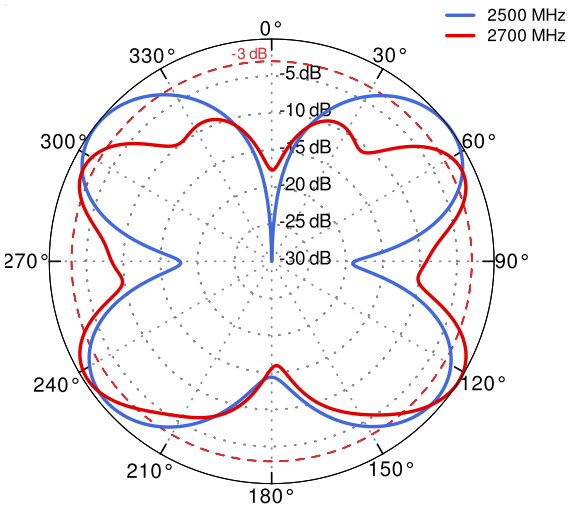
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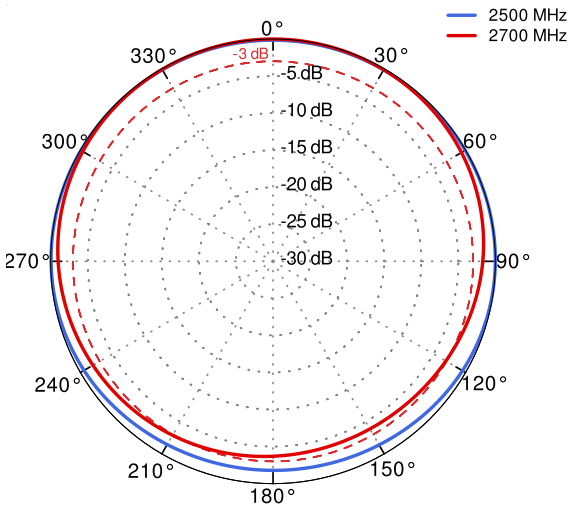
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LTE From 2.3GHz to 2.7GHz

ELEVATION

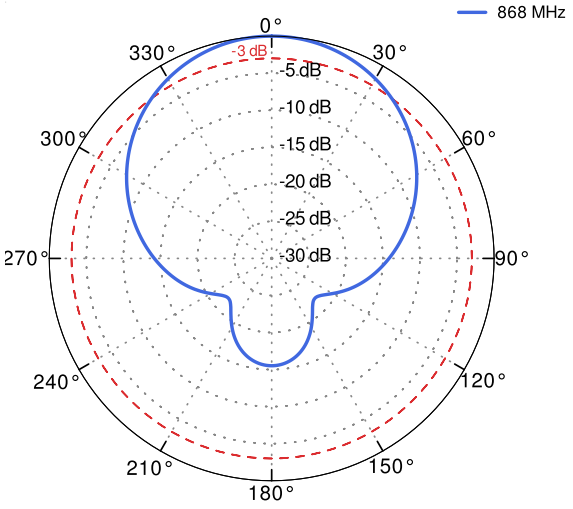


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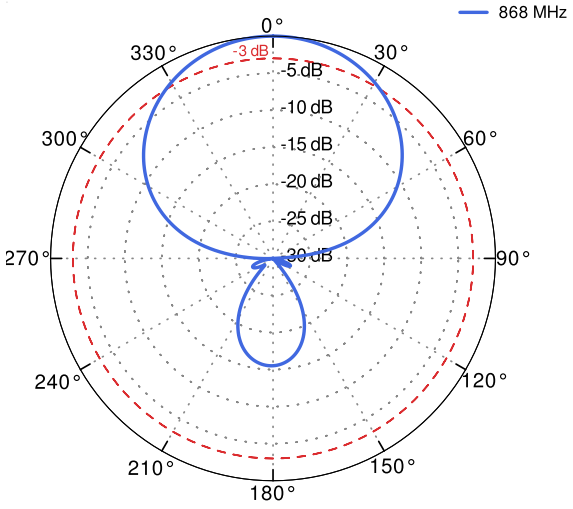


LoRa 868 MHz

ELEVATION



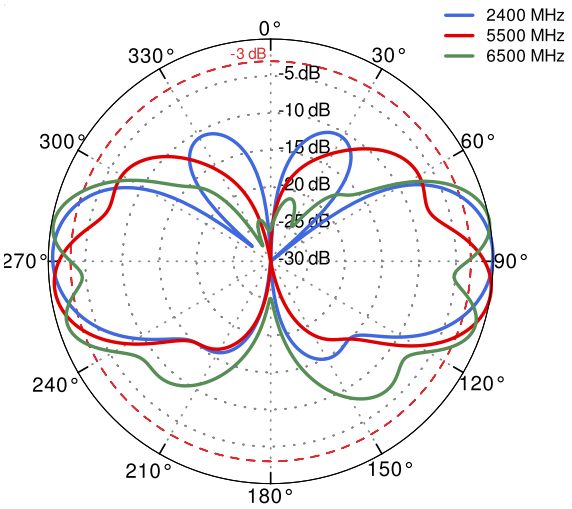
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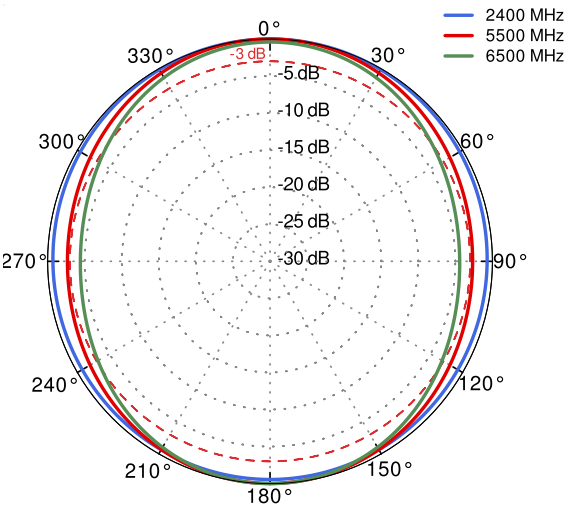
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Wi-Fi From 2.4 GHz to 6.5 GHz

ELEVATION



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DIMENSIONS



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