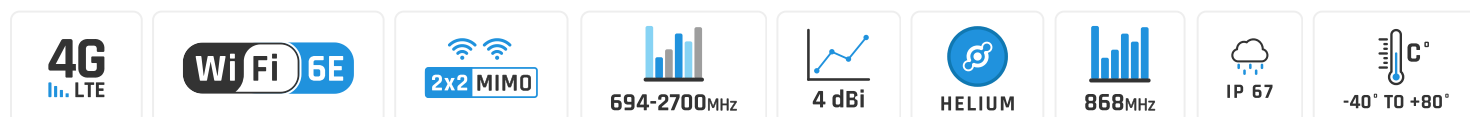


# QuMax for Robustel R1520-LG

## 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.



OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP67



MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION



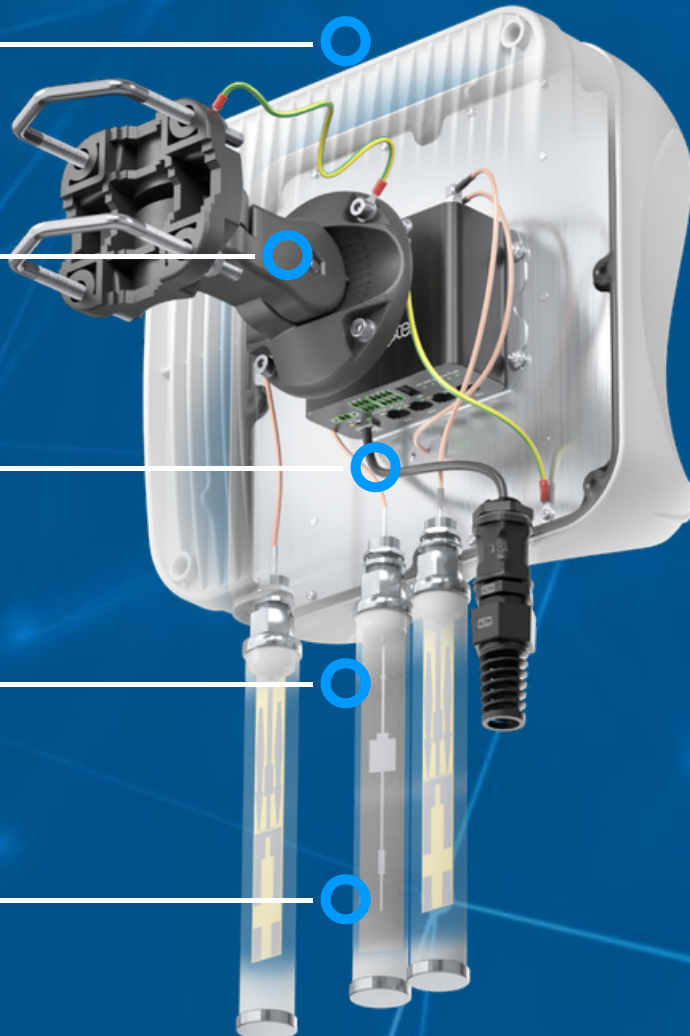
ANTENNA PERFECTLY MATCHED WITH THE ROBUSTEL R1520-LG



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

## 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 $\Omega$

## MECHANICAL SPECIFICATION

MATERIALS	ABS, aluminum, PTFE
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP67
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
MAST DIAMETER	25-60mm 0.98-2.36 inch

# **FREQUENCY BANDS**

**LTE / 4G GSM**

	5	6	8	12	13	14	17	
617 MHz	18	19	20	26	27	28	29	960 MHz
	44	67	68	85	n81	n82	n83	
	n89							

**LTE / 4G UMTS**

	1	2	3	4	9	10	25	
1710 MHz	33	34	35	36	37	39	59	2170 MHz
	62	n80	n84	n86	n95			

**LTE / 4G WCS DARS**

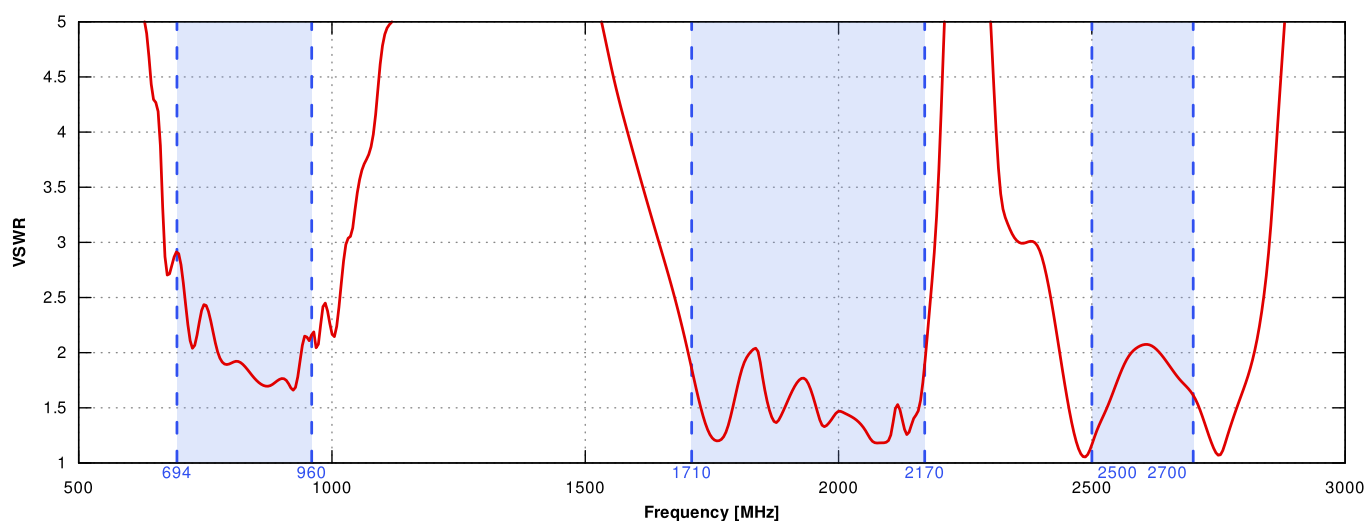
2300 MHz	30	40						2400 MHz
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**LTE / 4G**

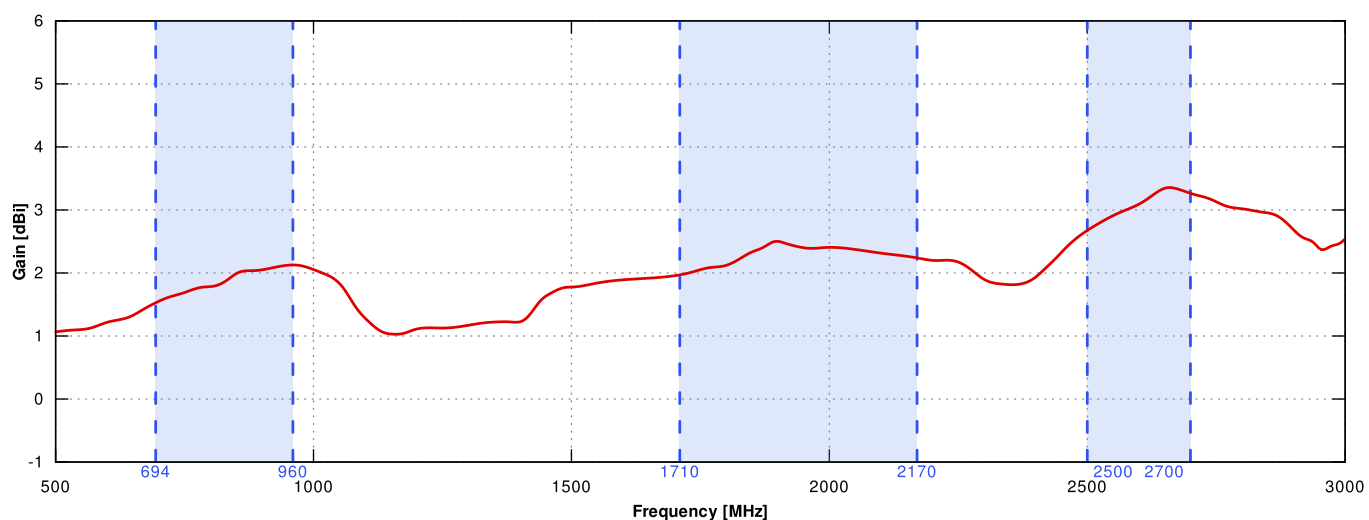
2400 MHz	7	38	41	53	69	n90		2700 MHz
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## PLOTS

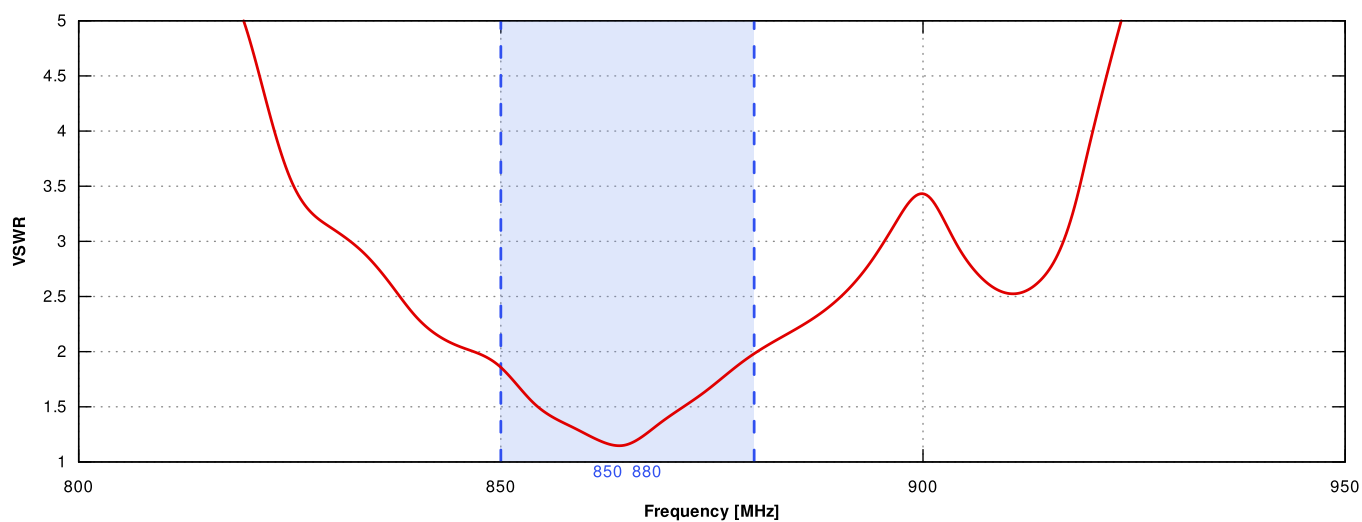
### LTE VSWR



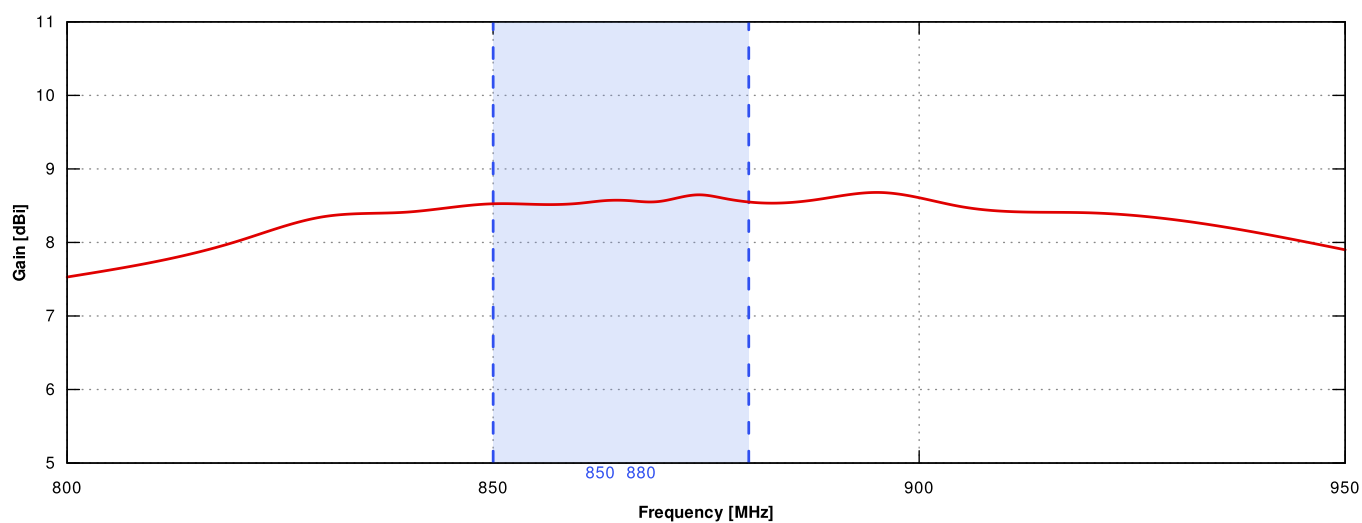
### LTE Gain



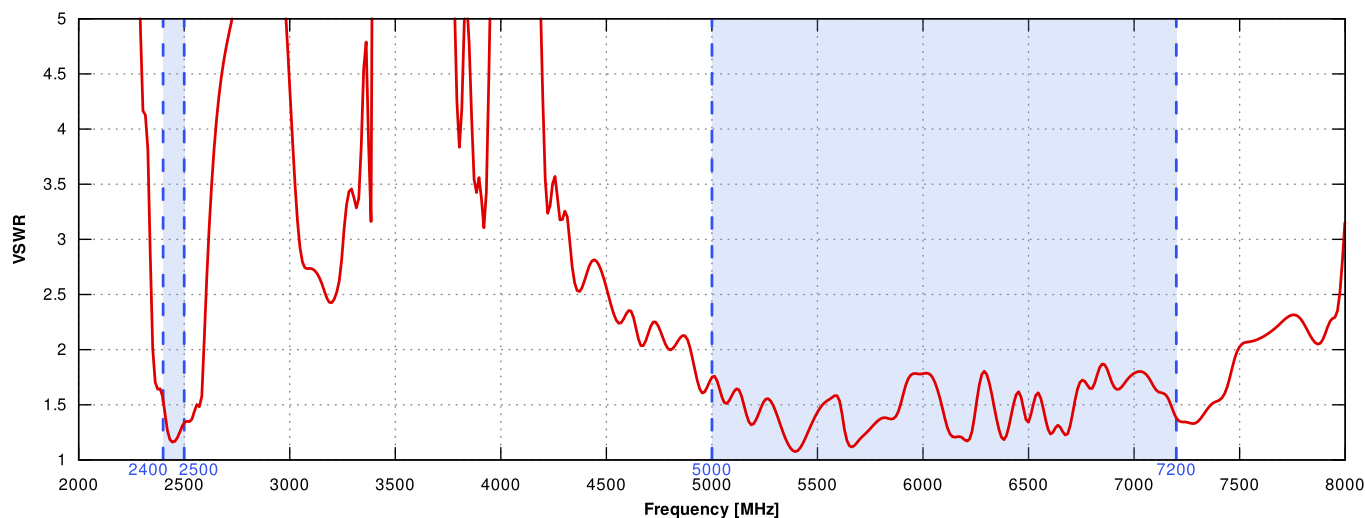
## LoRa VSWR



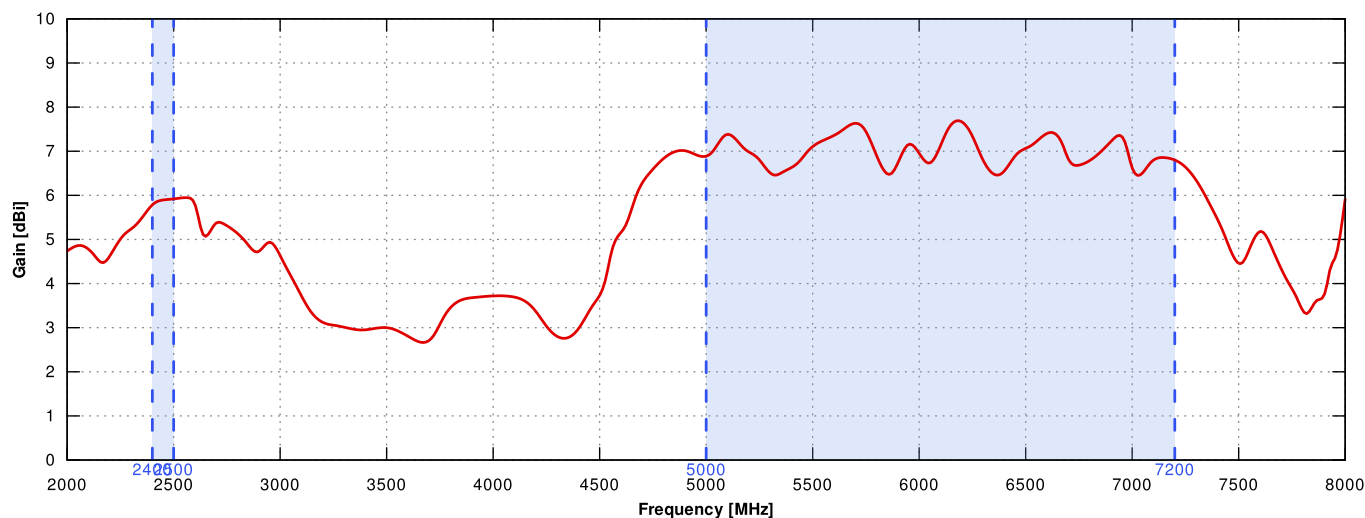
## LoRa Gain



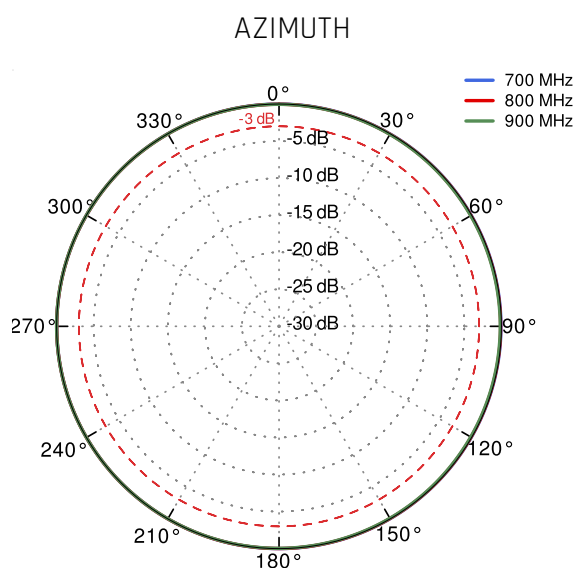
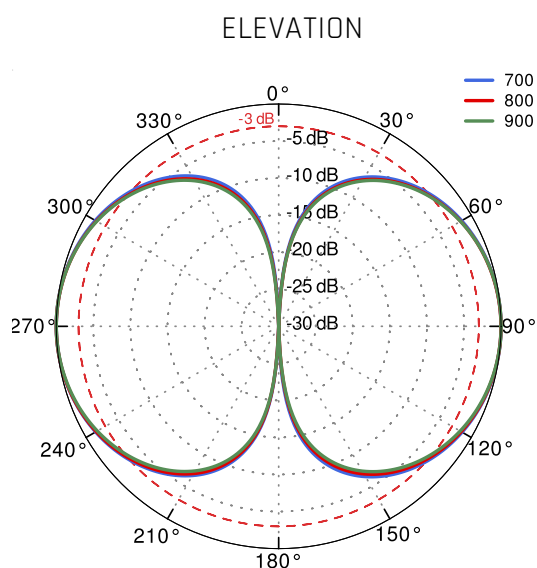
## Wi-Fi VSWR



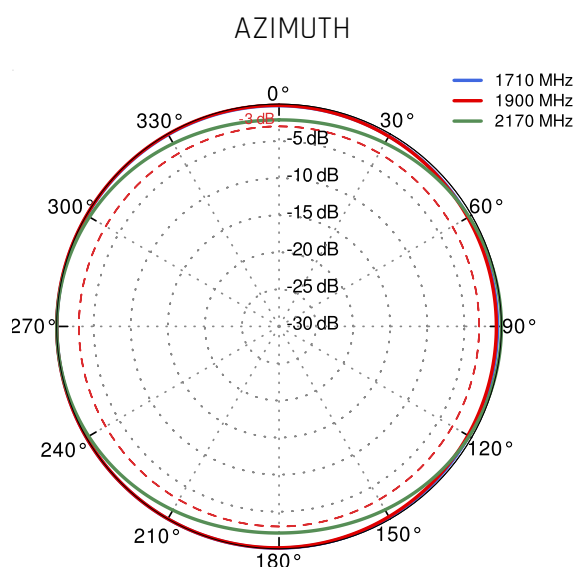
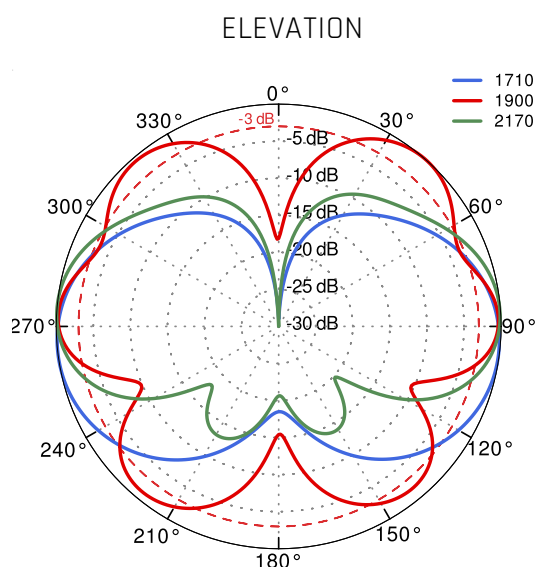
## Wi-Fi Gain



## LTE From 700MHz to 900MHz

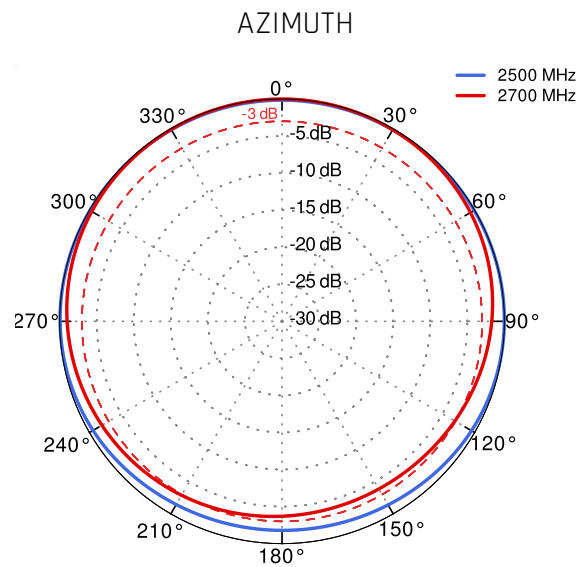
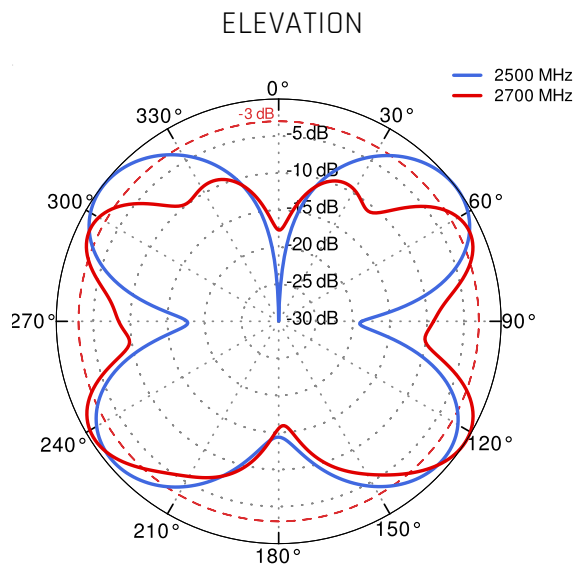


## LTE From 1.71GHz to 2.17GHz

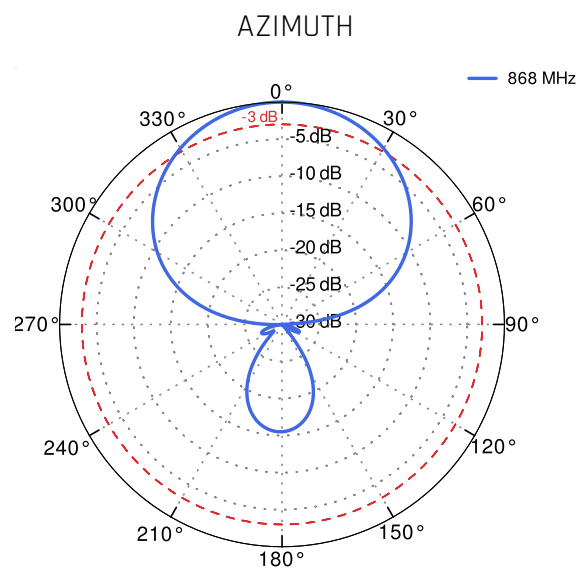
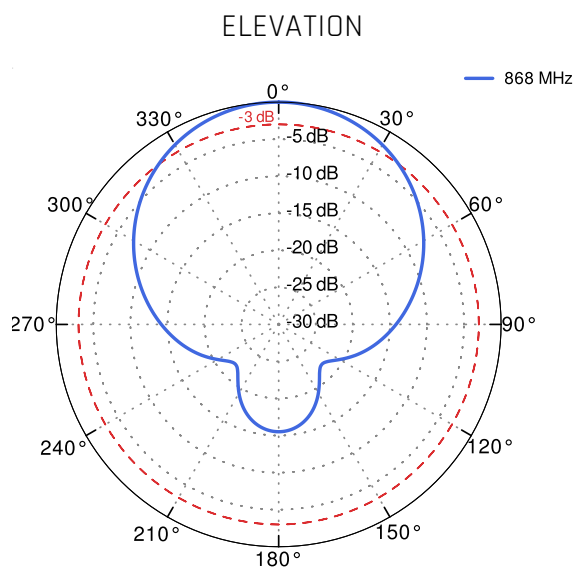




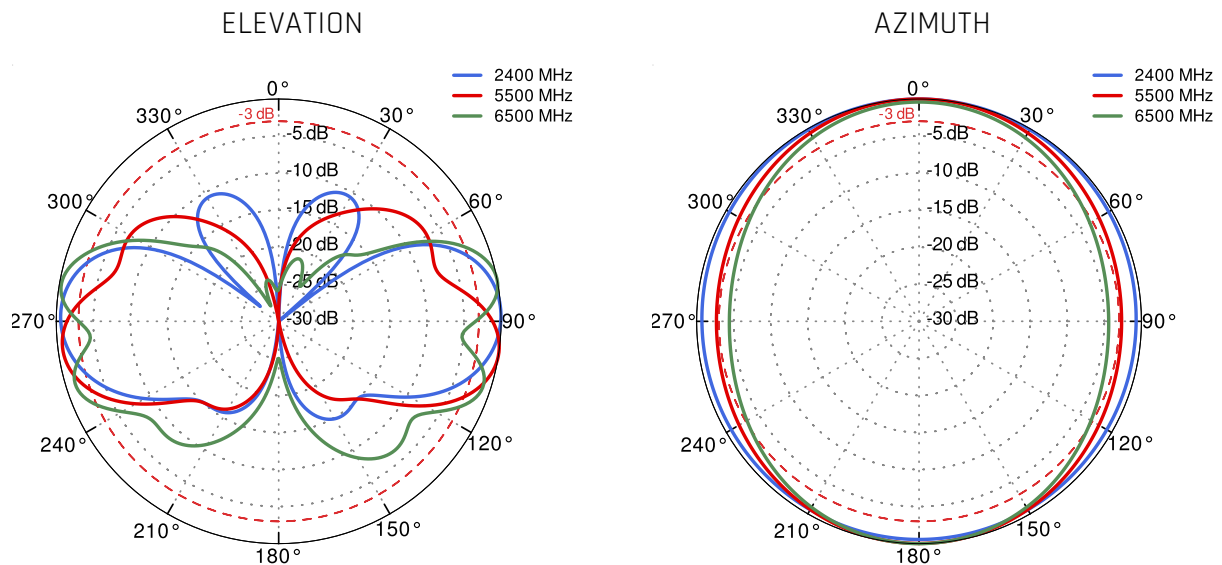
## LTE From 2.3GHz to 2.7GHz



## LoRa 868 MHz



## Wi-Fi From 2.4 GHz to 6.5 GHz



## DIMENSIONS

