

# QuMax for Robustel R3000 LoRa

## INTEGRATED LORA ANTENNA + MULTI-BAND LTE OMNI ANTENNA + POE SPLITTER + PLACE TO INSTALL ROBUSTEL R3000 LG (ALL-IN-ONE)

QuMax all-in-one antenna for Robustel R3000 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 and LoRa antenna. If you use R3000 LG with QuMax antenna, you get an integrated complete solution with embedded gateway and multi band antennas in one enclosure.

The set contains a [Passive PoE splitter](#), allowing you to split data and power from a single Ethernet cable and maintain gigabit transfer speeds while protecting the LAN port from damage caused by overvoltage, short circuit or improper connection.



OUTDOOR ANTENNA WORKS IN **ANY WEATHER CONDITIONS**, IP68



MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION



ANTENNA PERFECTLY MATCHED WITH THE ROBUSTEL R3000 LG



ALL ANTENNAS AND ROBUSTEL ROUTER INTEGRATED IN ONE ENCLOSURE



MADE IN **EUROPE**



## LORA ANTENNA SPECIFICATION

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

## LTE ANTENNA SPECIFICATION

<b>FREQUENCY</b>	694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz
<b>GAIN</b>	694 - 960 MHz : 2 dBi 1.7 - 2.2 GHz : 2 dBi 2.2 - 2.7 GHz : 3 dBi
<b>SUPPORTED LTE/5G BANDS</b>	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
<b>VSWR</b>	<1.50, max <2.50
<b>BEAMWIDTH</b>	360°/25° ±5°
<b>POLARIZATION</b>	Vertical
<b>IMPEDANCE</b>	50 Ω

## MECHANICAL SPECIFICATION

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

# 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**

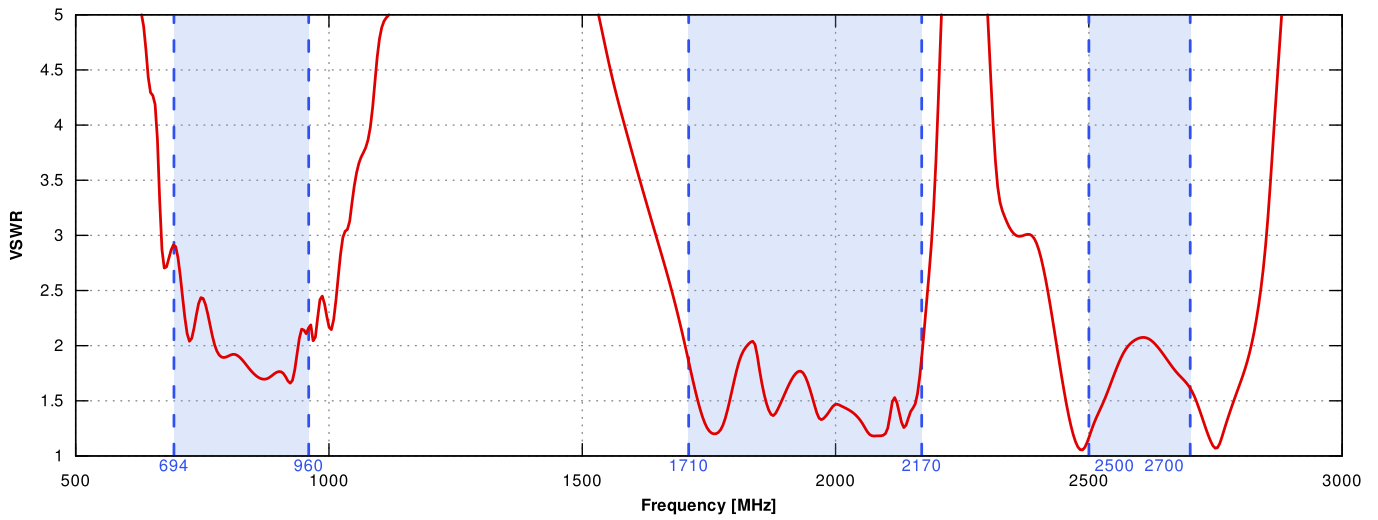
2300 MHz	30	40						2400 MHz
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**LTE / 4G**

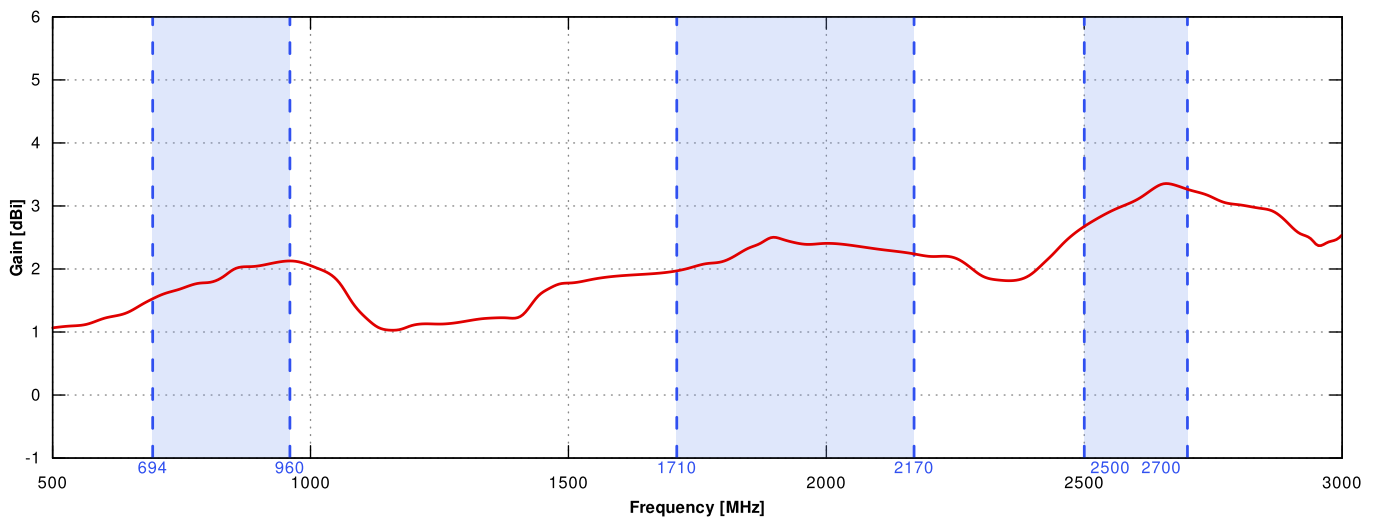
2400 MHz	7	38	41	53	69	n90	2700 MHz
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# PLOTS

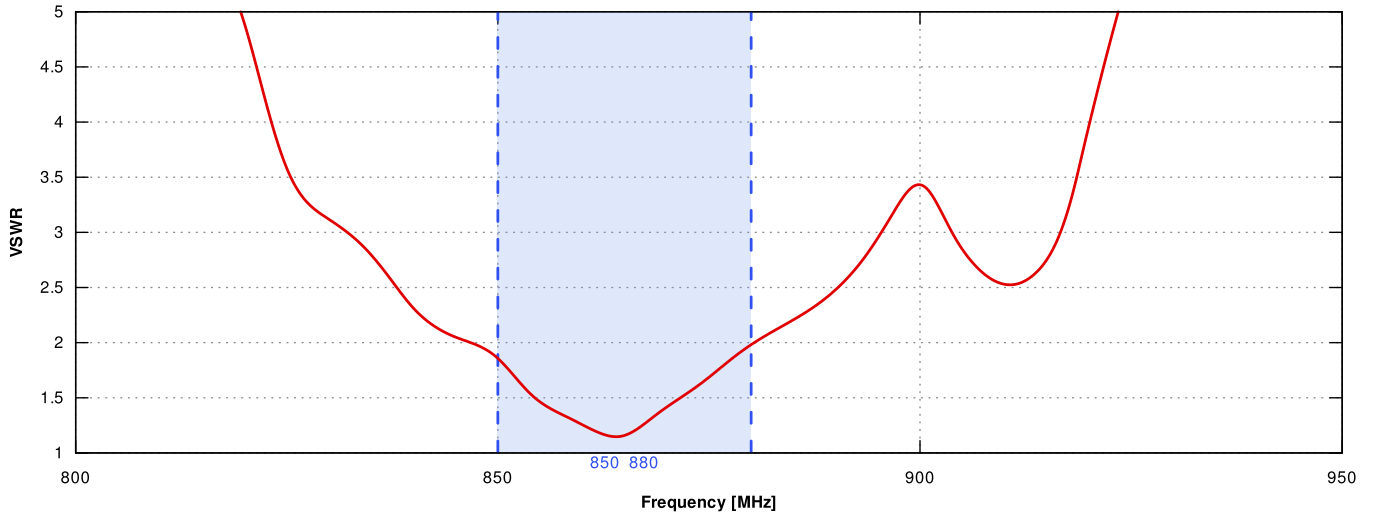
## LTE VSWR



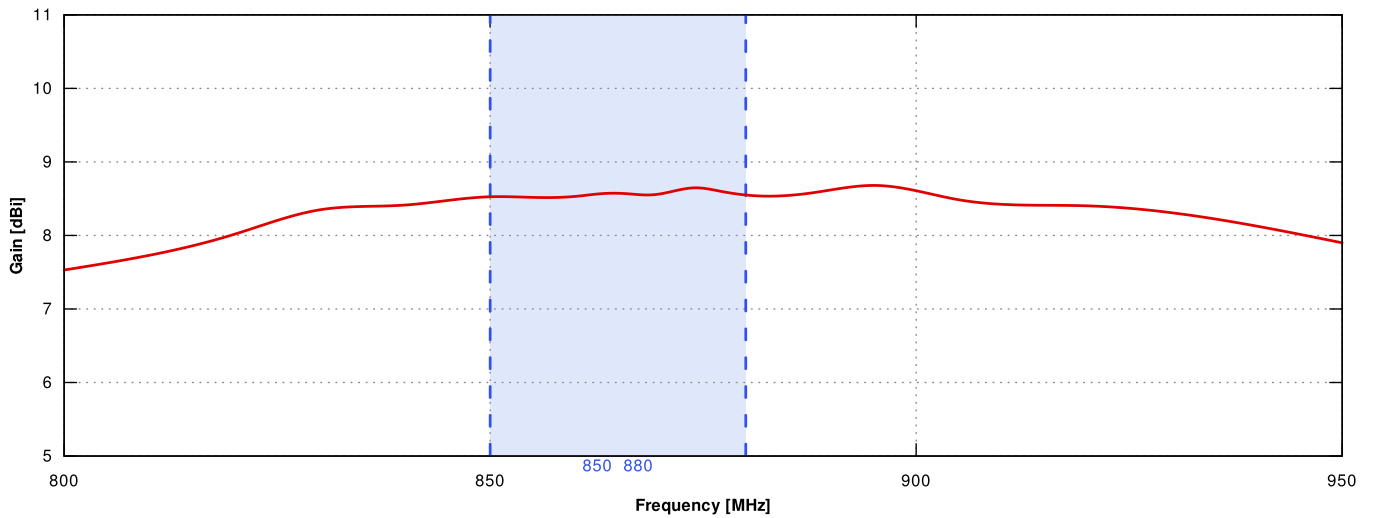
## LTE Gain



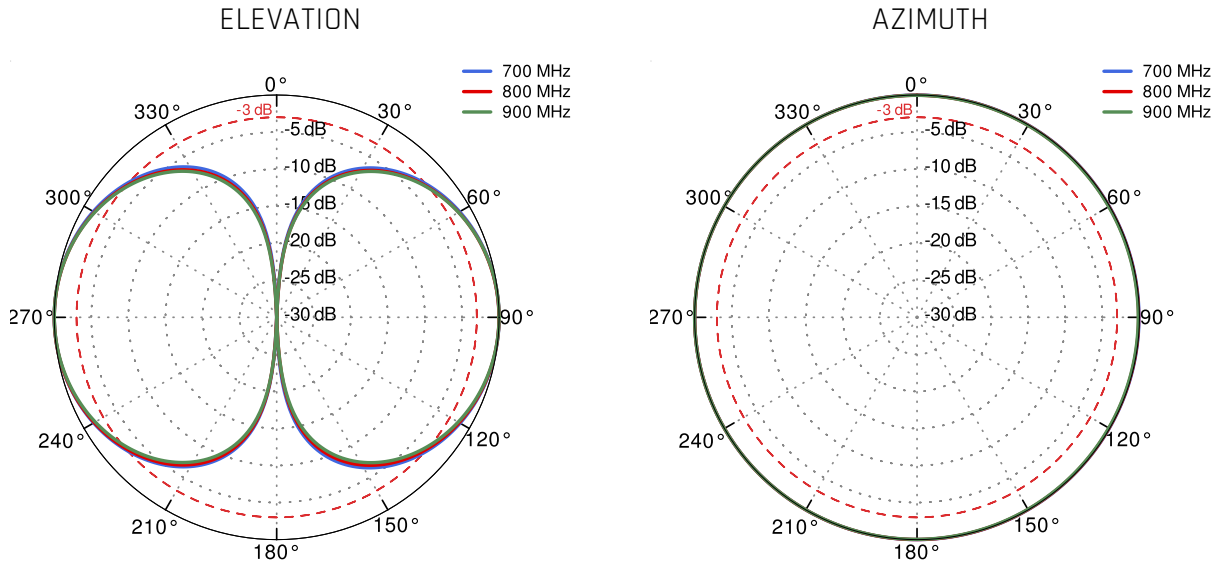
### LoRa VSWR



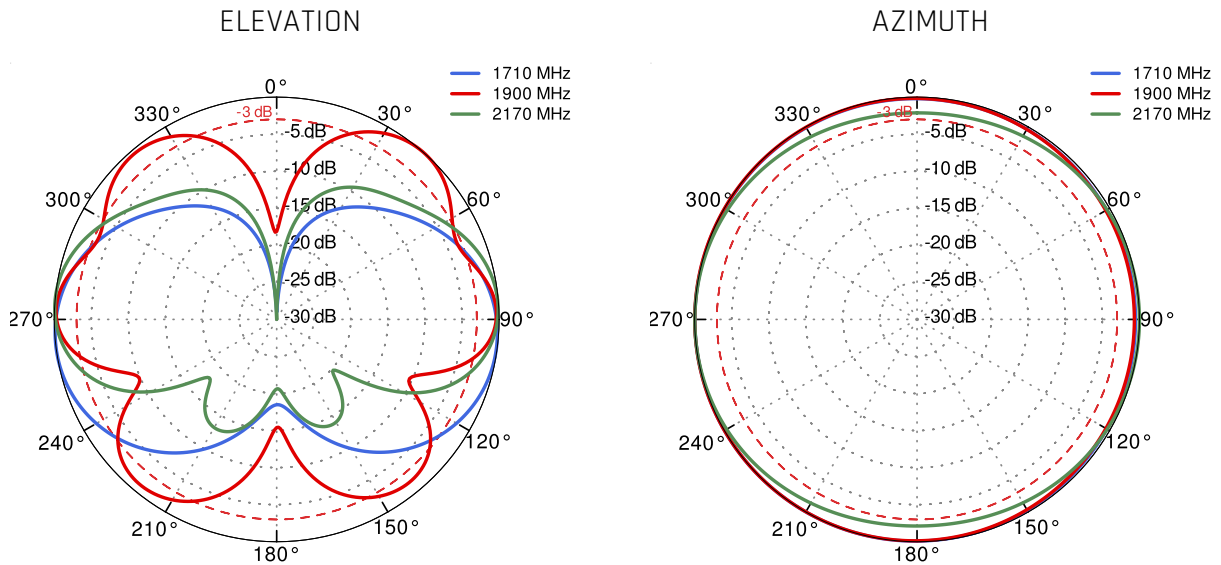
### LoRa Gain



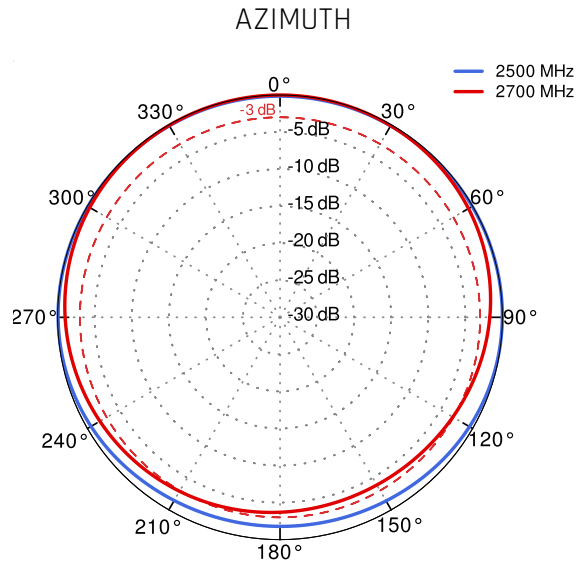
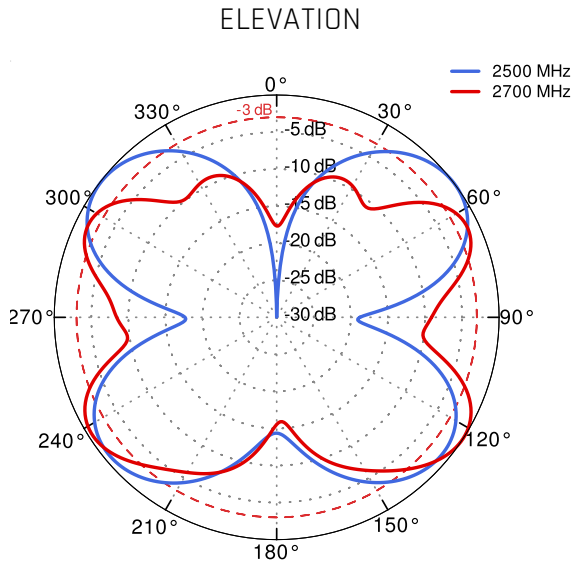
LTE From 700MHz to 900MHz



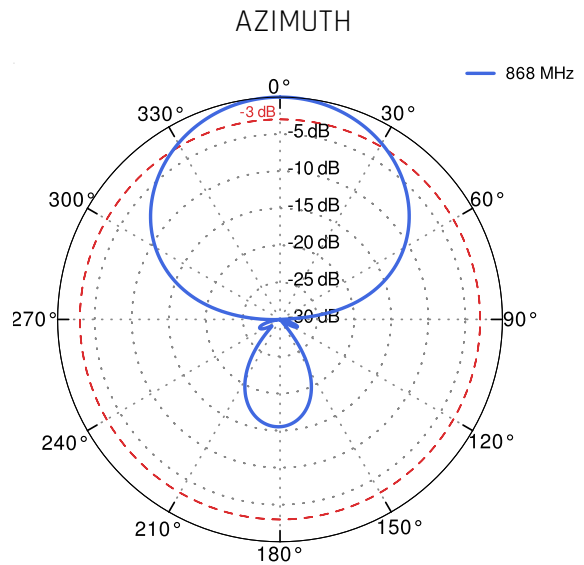
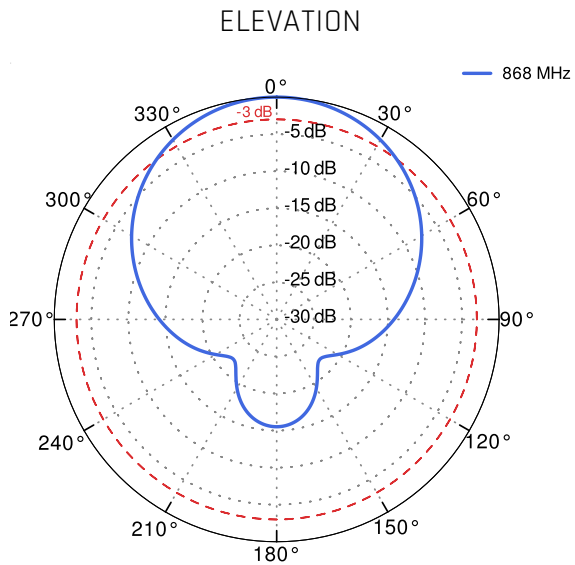
LTE From 1.71GHz to 2.17GHz



LTE From 2.3GHz to 2.7GHz



LoRa 868 MHz



## **DIMENSIONS**

