

# 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 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.

**4G**  
LTE**2x2 MIMO**  
**694-2700MHz**  
**4 dBi**  
**OMNI  
DIRECTIONAL**  
**HELIUM**  
**868MHz**  
**IP 67**  
**-40° TO +80°**

OUTDOOR ANTENNA WORKS IN ANY  
WEATHER CONDITIONS, IP67



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

FREQUENCY	868 MHz (EU868, IN865, RU864)
GAIN	8.5 dBi
VSWR	<1.80, max <2.00
BEAMWIDTH	75°/75° ±10°
POLARIZATION	Vertical
IMPEDANCE	50 $\Omega$
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 $\Omega$

## 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	<div>56812131417</div> <div>617 MHz<div>18192026272829</div><div>44676885n81n82n83</div><div>n89</div><div>960 MHz</div></div>
LTE / 4G UMTS	<div>123491025</div> <div>1710 MHz<div>33343536373959</div><div>62n80n84n86n95</div><div>2170 MHz</div></div>

**LTE / 4G WCS DARS**

2300  
MHz

30

40

2400  
MHz

**LTE / 4G**

2400  
MHz

7

38

41

53

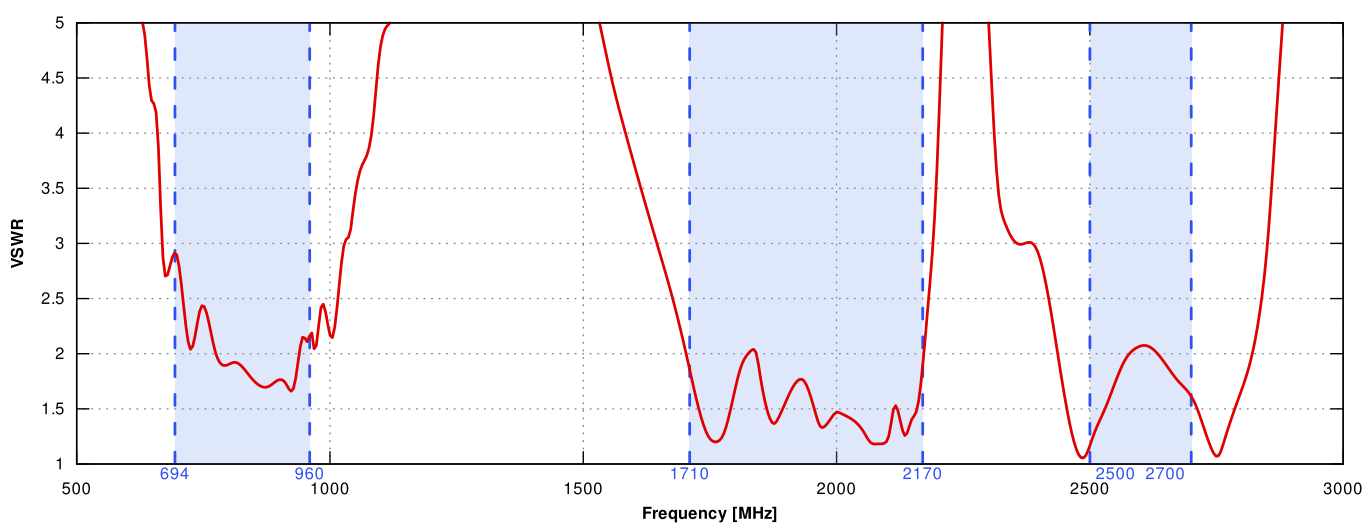
69

n90

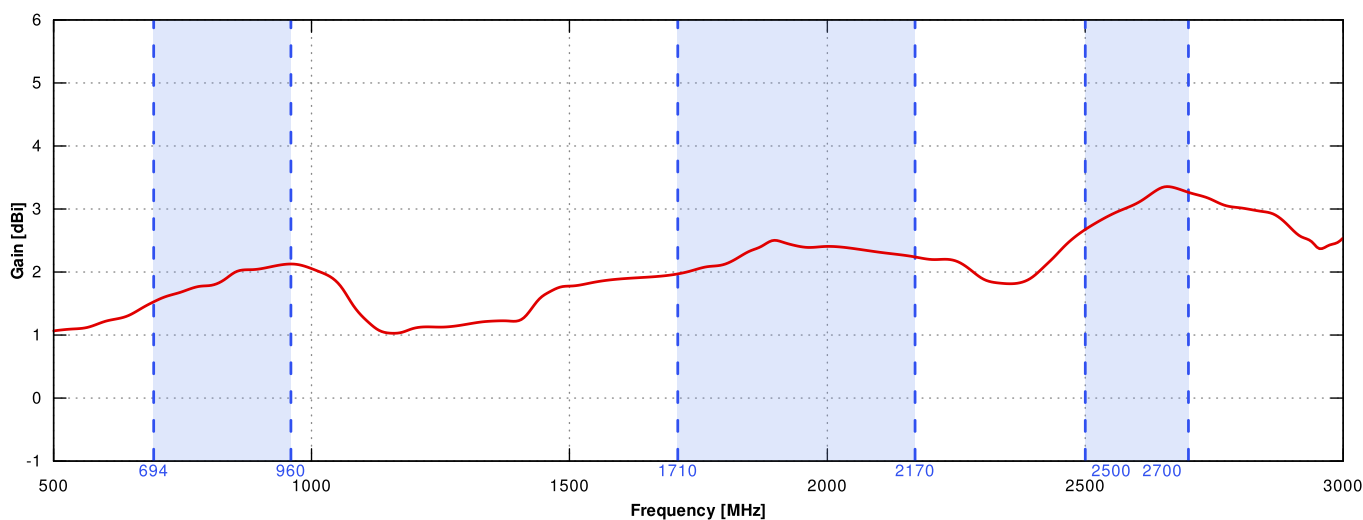
2700  
MHz

## PLOTS

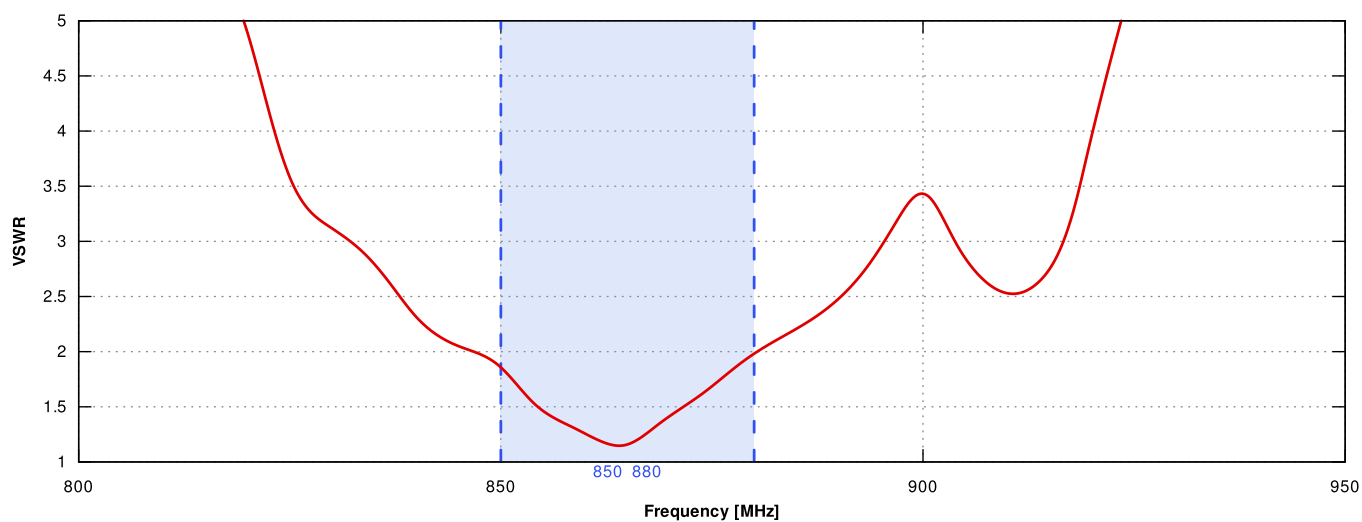
LTE VSWR 



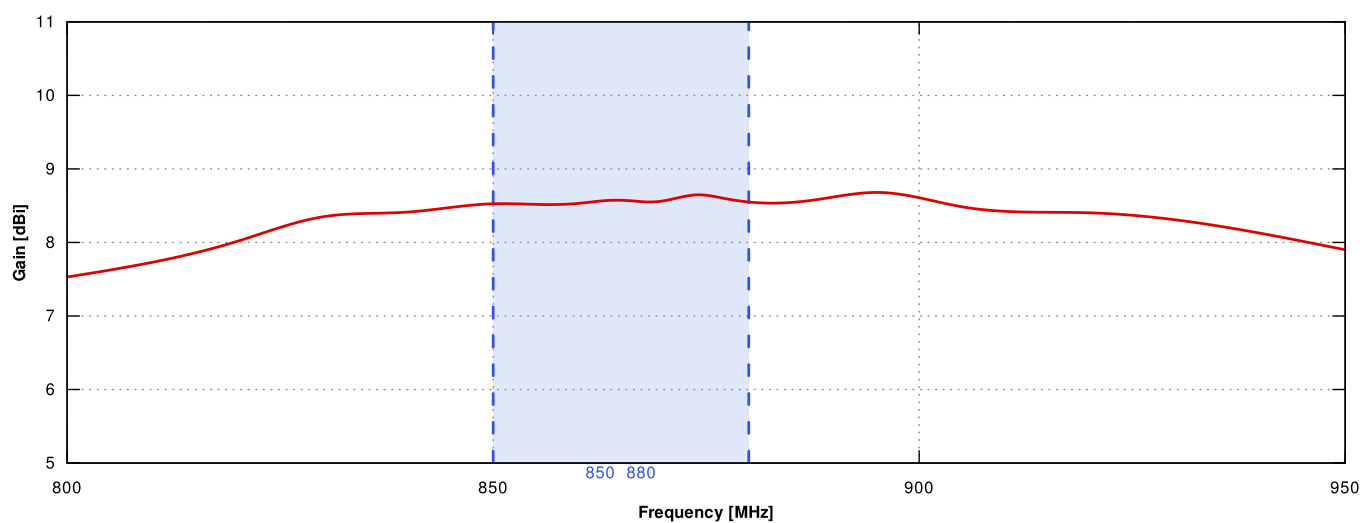
LTE Gain 



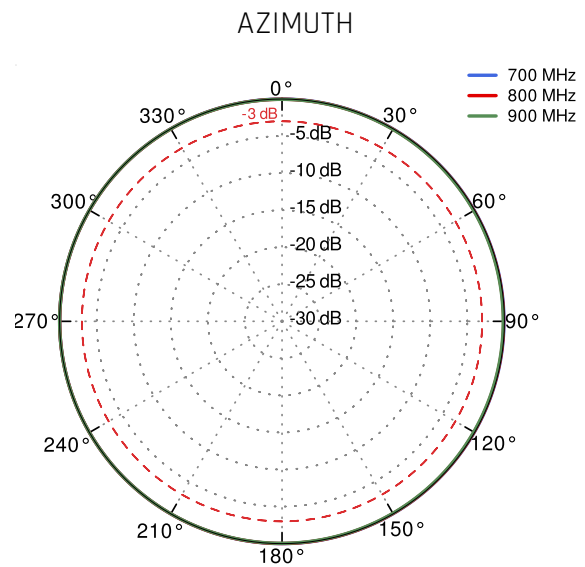
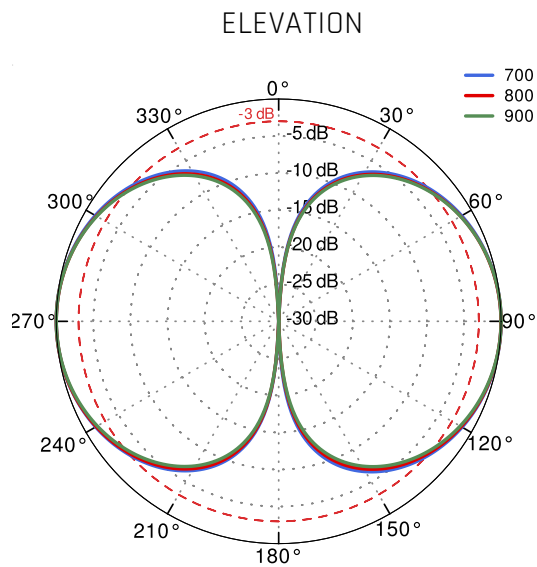
## LoRa VSWR



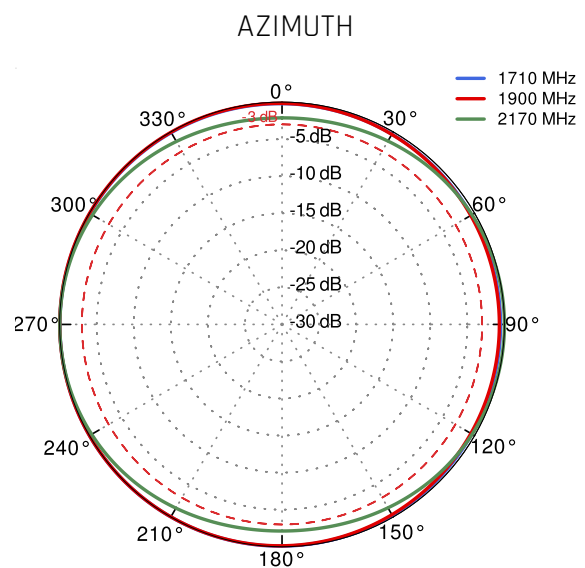
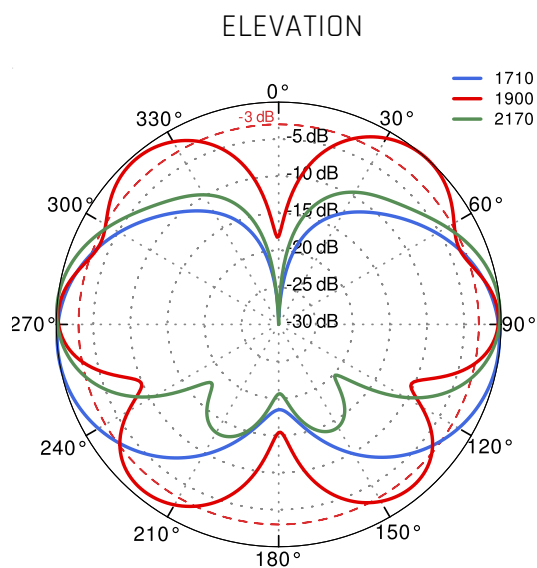
## LoRa Gain



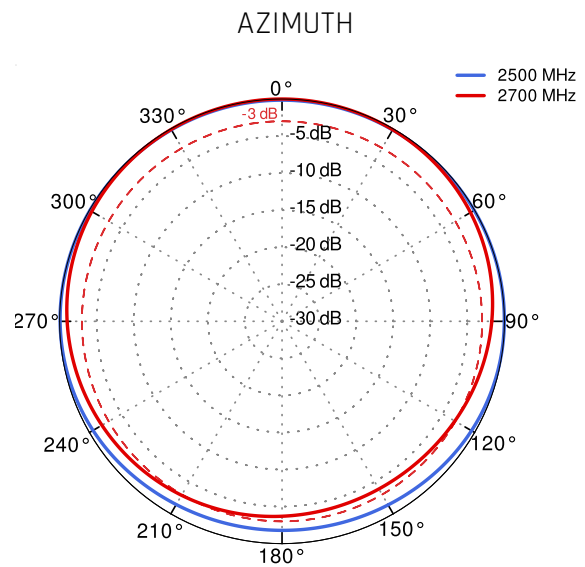
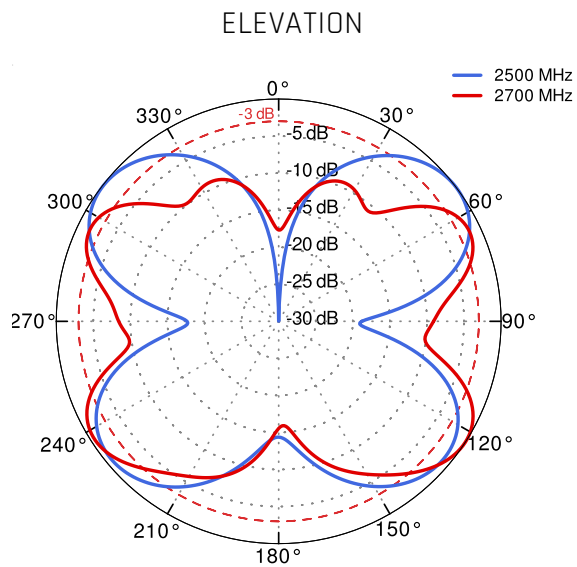
## LTE From 700MHz to 900MHz



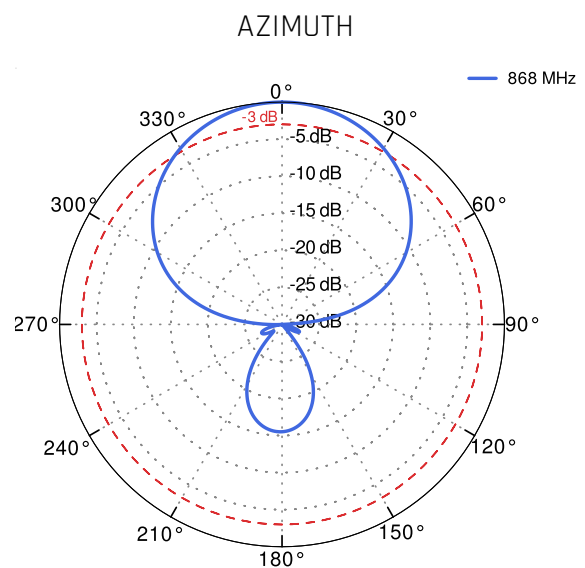
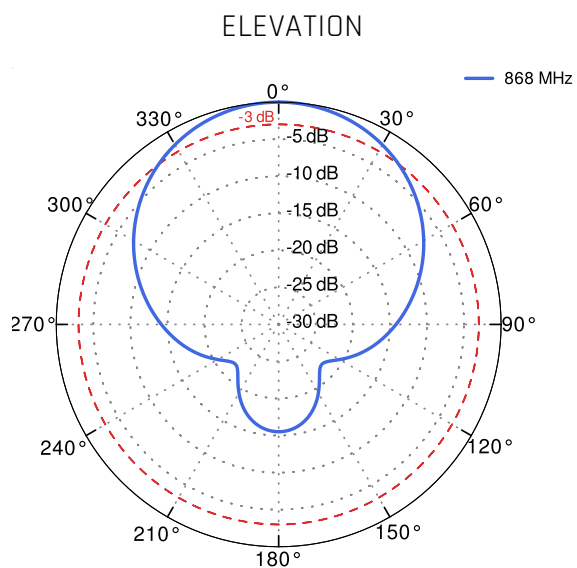
## LTE From 1.71GHz to 2.17GHz



## LTE From 2.3GHz to 2.7GHz



## LoRa 868 MHz



## DIMENSIONS

