

# QuMax for Teltonika TRB160

**Integrated outdoor multi-band high power LTE directional antenna + place to install Teltonika TRB160 (All-in-one)**

QuMAX offers the most powerful directional LTE antenna of all QuWireless antennas. It is dedicated to connections with long distance to base station. It is designed to have Teltonika **TRB160** router installed inside IP67 enclosure. It is the first choice for fixed installations in industrial environment.

**4G**  
LTE  
694-2700MHz  
6 dBi  
DIRECTIONAL  
IP 67  
-40° TO +80°

ALL ANTENNAS AND TELTONIKA  
ROUTER INTEGRATED **IN ONE**  
ENCLOSURE



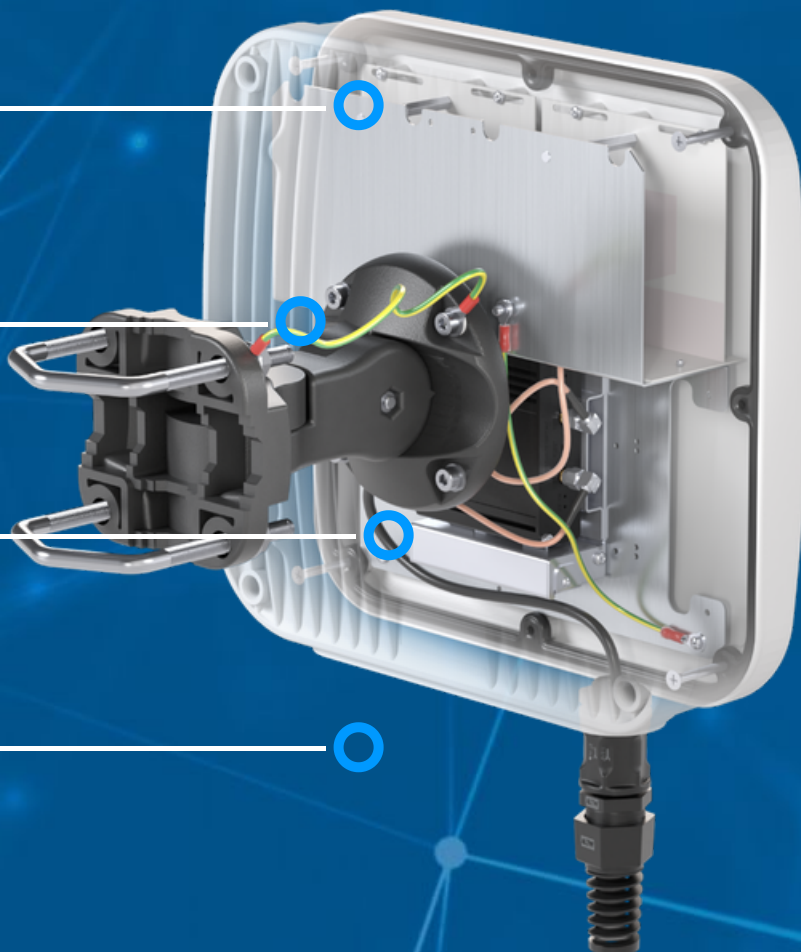
OUTDOOR ANTENNA WORKS IN ANY  
WEATHER CONDITIONS, IP67



ANTENNA **PERFECTLY MATCHED** WITH  
THE ROUTER



MADE IN **EUROPE**



## LTE ANTENNA SPECIFICATION

FREQUENCY	694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz
SUPPORTED LTE/5G BANDS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 23, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 44, 53, 59, 62, 65, 66, 67, 68, 69, 85, n80, n81, n82, n83, n84, n86, n89, n90, n95
GAIN	694 - 960 MHz : 4 dBi 1.7 - 2.2 GHz : 5 dBi 2.2 - 2.7 GHz : 6 dBi
FRONT-TO-BACK	>8 dB
VSWR	<1.30, max <1.80
BEAMWIDTH	90°/90° ±30°
POLARIZATION	Vertical
IMPEDANCE	50 $\Omega$
CONNECTOR	2x SMA

## MECHANICAL SPECIFICATION

MATERIALS	ABS, aluminum, PTFE, Fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP67
DIMENSIONS	272 x 276 x 96 mm 10.71 x 10.87 x 3.78 inch
WEIGHT	1.8 kg 3.97 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

The diagram illustrates the frequency allocation for LTE / 4G networks. It is divided into two main sections: LTE / 4G GSM and LTE / 4G UMTS.

**LTE / 4G GSM:** This section shows a frequency range from 694 MHz to 960 MHz. The available frequency blocks are:

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

**LTE / 4G UMTS:** This section shows a frequency range from 1710 MHz to 2170 MHz. The available frequency blocks are:

- 1, 2, 3, 4, 9, 10, 25
- 33, 34, 35, 36, 37, 39, 59
- 62, n80, n84, n85, n95

**LTE / 4G WCS DARS**

2300  
MHz

30

40

2400  
MHz

**LTE / 4G**

2400  
MHz

7

38

41

53

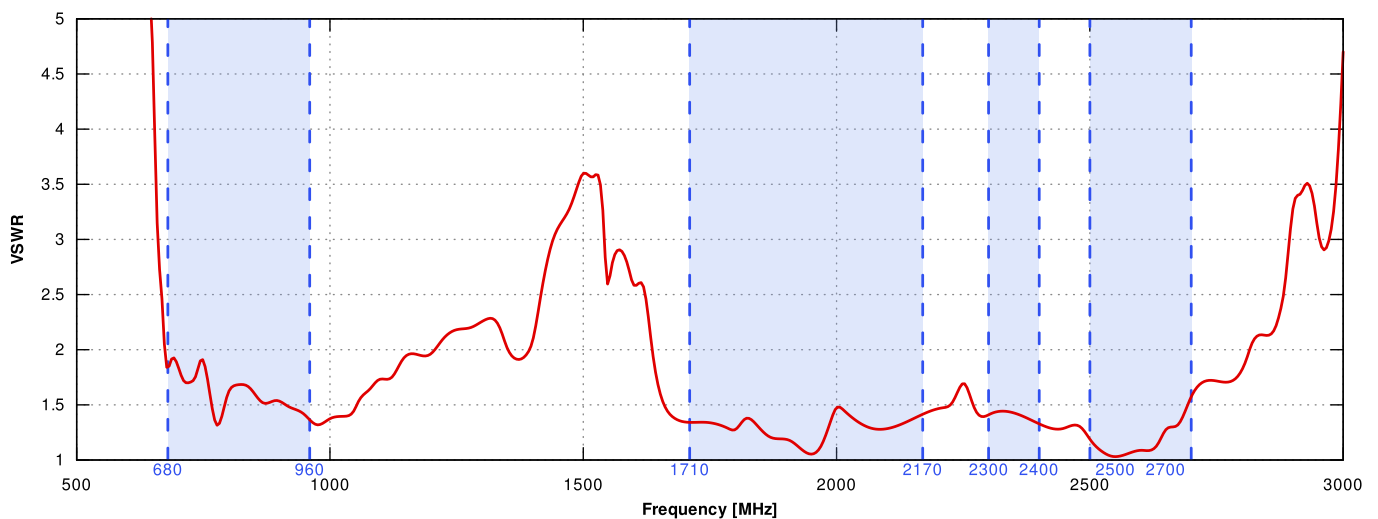
69

n90

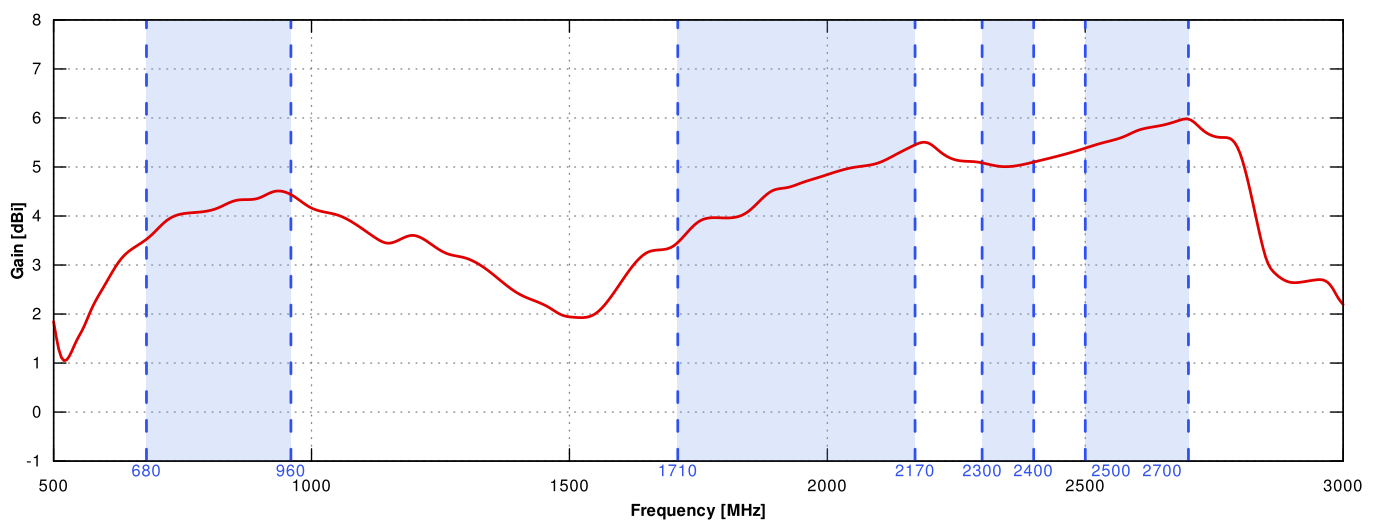
2700  
MHz

## PLOTS

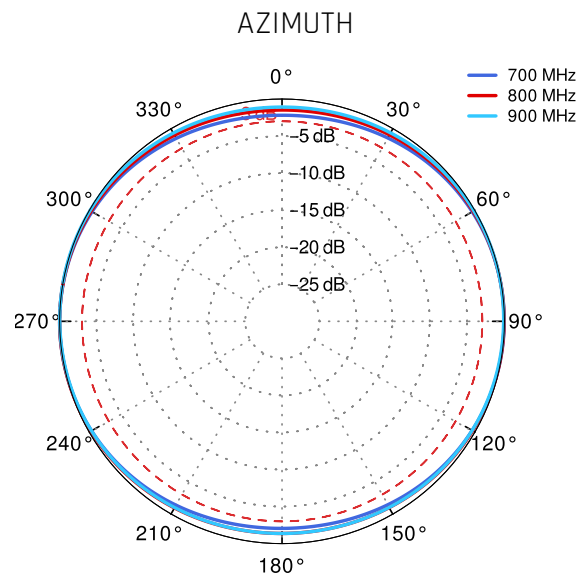
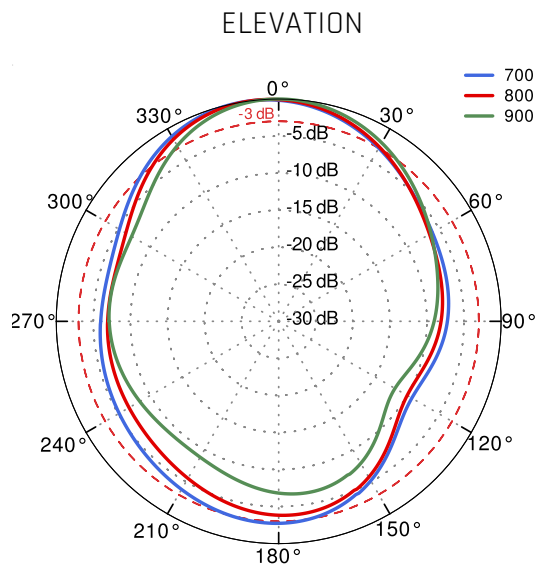
VSWR for LTE antenna



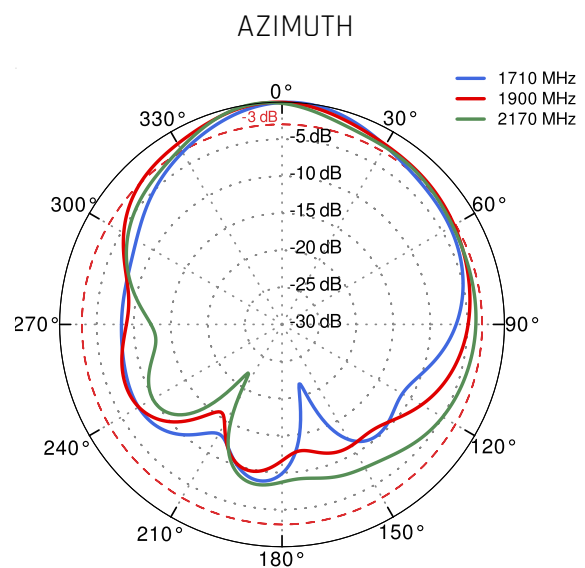
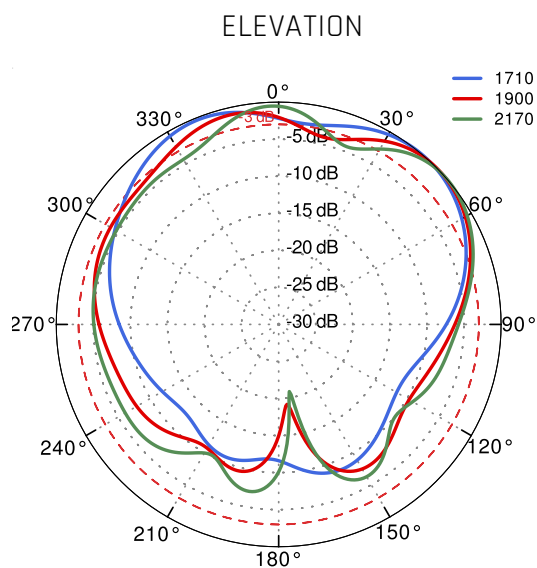
Gain for LTE antenna



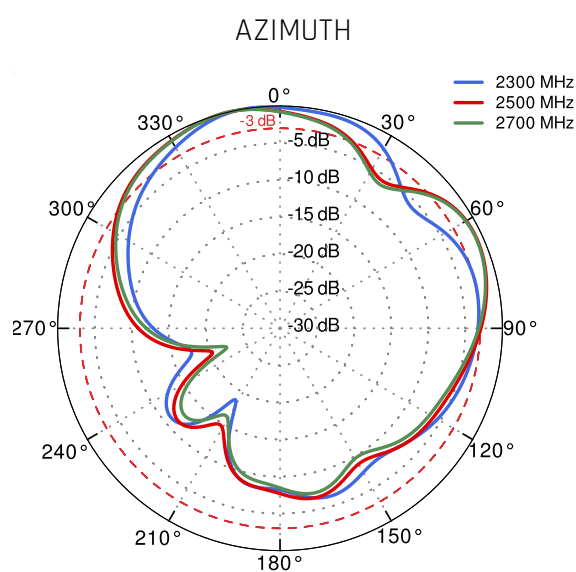
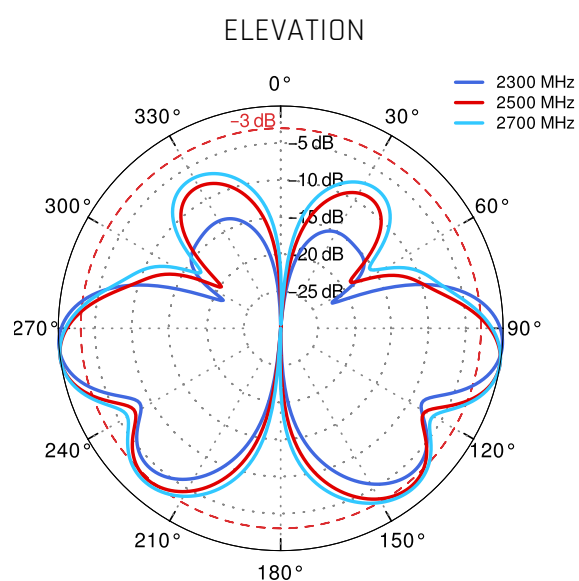
## LTE from 700MHz to 900MHz



## LTE from 1.71GHz to 2.17GHz



LTE from 2.3GHz to 2.7GHz



## DIMENSIONS

