

# QuMax Omni for Teltonika TRB500

## INTEGRATED MULTI-BAND LTE & 5G OMNI ANTENNA + PLACE TO INSTALL TELTONIKA TRB500 (ALL-IN-ONE)

**QuMax Omni** is a 5G omnidirectional MIMO 4x4 antenna for the **Teltonika TRB500** gateway. The antenna covers a wide frequency range from 617MHz (Band71) to 3.8GHz. Additional router compartment inside the housing creates a variety of new outdoor (IP67) scenarios. It is recommended for moving applications, like trains, buses, yachts or campers, but also to improve signal quality in rural areas.

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. **NOTE:** should only be used with a 24V (or lower voltage) Passive PoE power supply it is not compatible with an 802.3af/at power source!

NOTE! The antenna doesn't support B32 band and n77 (above 3800MHz) band!

**5G****BAND  
71**  
**617-3800MHz**  
**4 dBi**  
**OMNI  
DIRECTIONAL**  
**IP 67**  
**-40° TO +80°****PASSIVE POE SUPPORT****ANTENNA PERFECTLY MATCHED WITH  
THE ROUTER****OUTDOOR ANTENNA WORKS IN ANY  
WEATHER CONDITIONS, IP67****MADE IN EUROPE**

## 5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.617 - 0.96 GHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz 3.3 - 3.8 GHz
GAIN	0.617 - 0.96 GHz: 3 dBi 1.7 - 2.2 GHz: 3,5 dBi 2.3 - 2.7 GHz: 3,5 dBi 3.3 - 3.8 GHz: 4 dBi
SUPPORTED LTE BANDS	1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 48, 49, 52, 53, 65, 66, 67, 68, 69, 71, 85, 103, 106
SUPPORTED 5G BANDS	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n48, n53, n65, n66, n67, n71, n77, n78, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256
VSWR	<1.80, max <2.00
BEAMWIDTH	360°/35° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 $\Omega$

## MECHANICAL SPECIFICATION

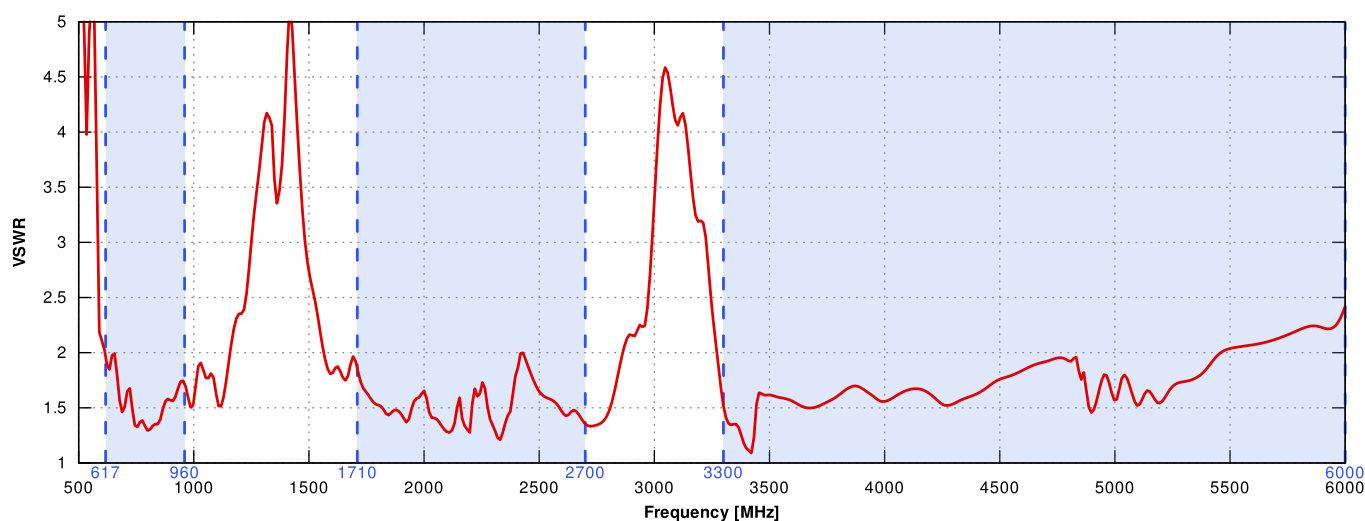
MATERIALS	ABS, aluminum, PTFE, Fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP67
DIMENSIONS	486.0 x 292.2 x 105.6 mm 19.13 x 11.50 x 4.16 inch
WEIGHT	2.5 kg 5.51 lbs
OPERATING TEMPERATURE	From -40°C to 70°C From -40°F to 167°F
MAST DIAMETER	25-60mm 0.98-2.36 inch

## POE SPECIFICATION

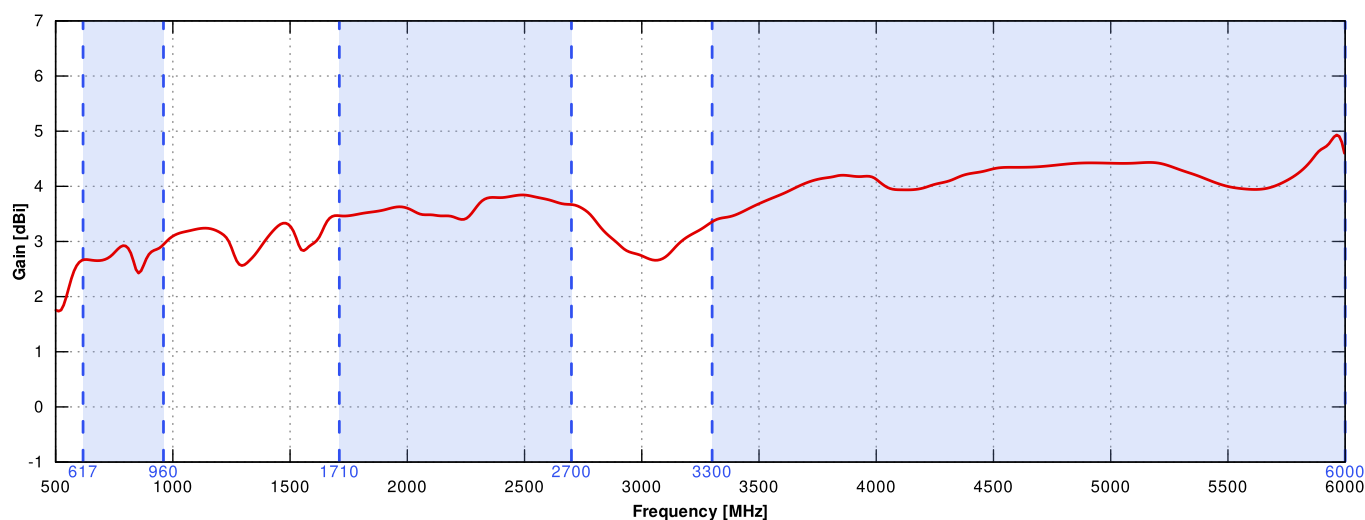
POE TYPE	Passive PoE up to 24V, not compatible with an 802.3af/at power source!
POE IN MODE	Mode type: B
IEEE STANDARD	IEEE 802.3ab 1000Base-T Gigabit Ethernet

## **PLOTS**

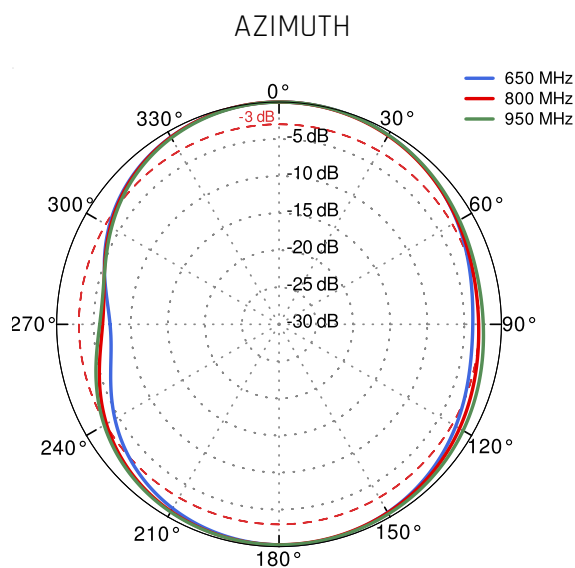
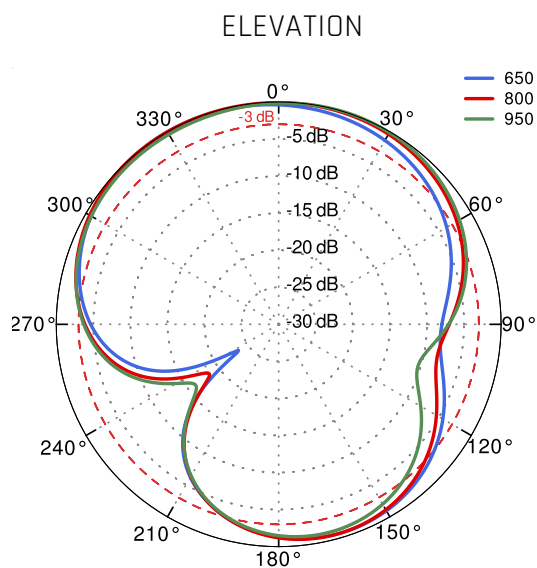
VSWR for LTE antenna



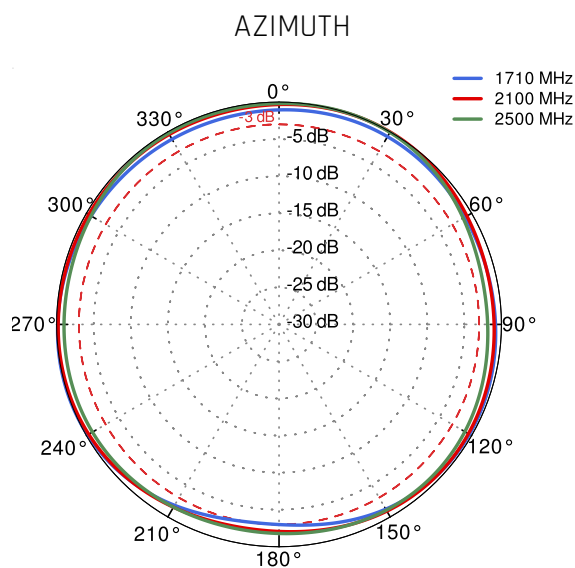
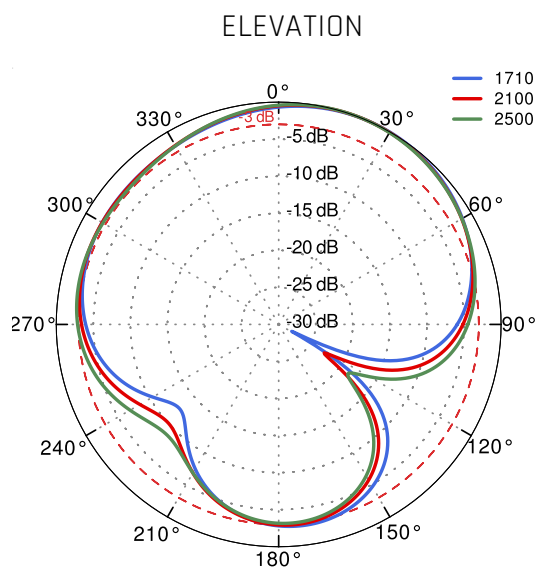
Gain for LTE antenna



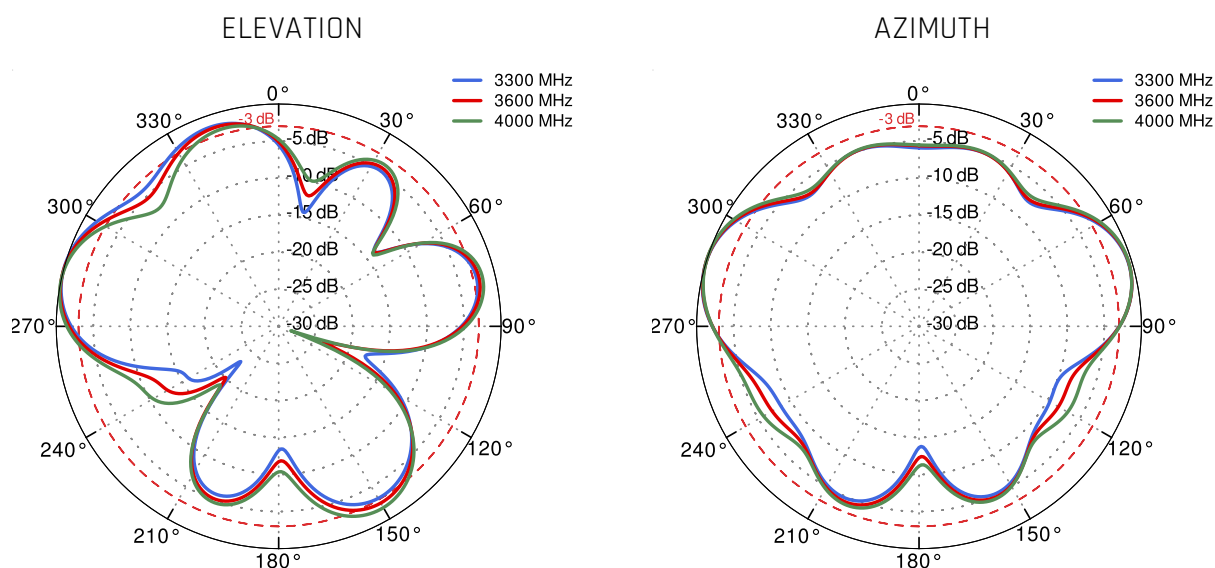
## 5G/LTE from 650MHz to 950MHz



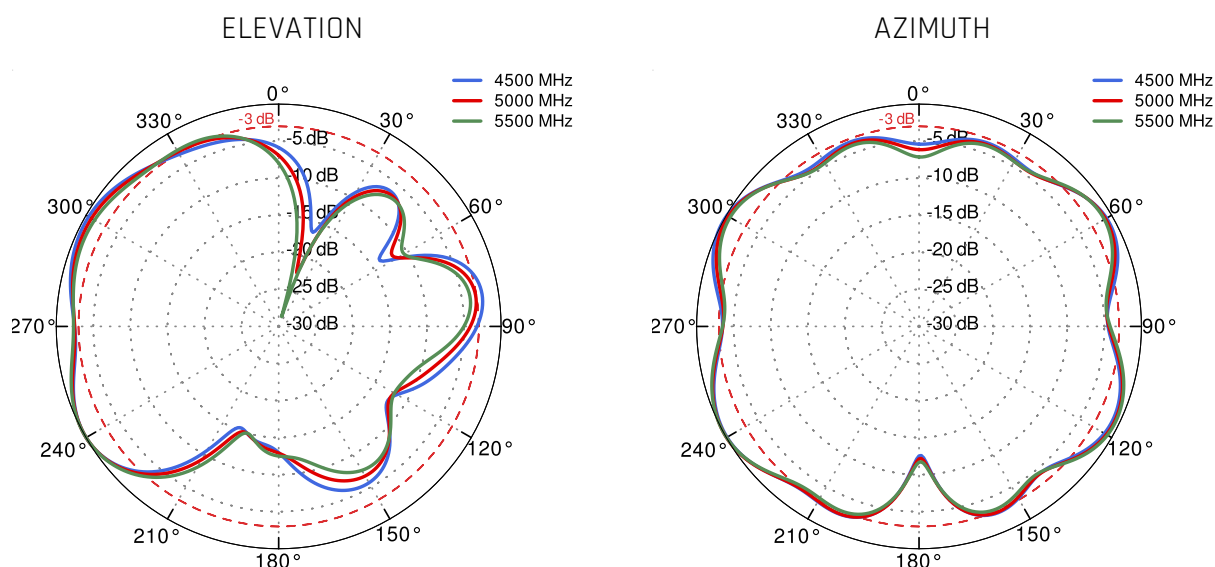
## 5G/LTE from 1.71GHz to 2.5GHz



## 5G/LTE from 3.3GHz to 4.0GHz



## 5G/LTE from 4.5GHz to 5.5GHz



## DIMENSIONS

