

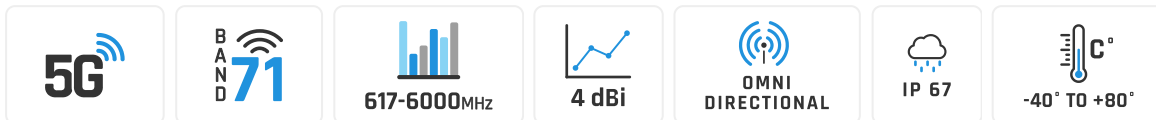
# QuMax Omni for Teltonika TRB500

## 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 6.0GHz. 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 / LTE ANTENNA SPECIFICATION

<b>FREQUENCY</b>	0.617 - 0.96 GHz 1.7 - 2.7 GHz 3.3 - 6.0 GHz
<b>GAIN</b>	0.617 - 0.96 GHz: 3 dBi 1.7 - 2.7 GHz: 3,5 dBi 3.3 - 6.0 GHz : 4dBi
<b>SUPPORTED LTE BANDS</b>	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
<b>SUPPORTED 5G BANDS</b>	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
<b>VSWR</b>	<1.80, max <2.00
<b>BEAMWIDTH</b>	360°/35° ±5°
<b>POLARIZATION</b>	Vertical
<b>IMPEDANCE</b>	50 Ω

## MECHANICAL SPECIFICATION

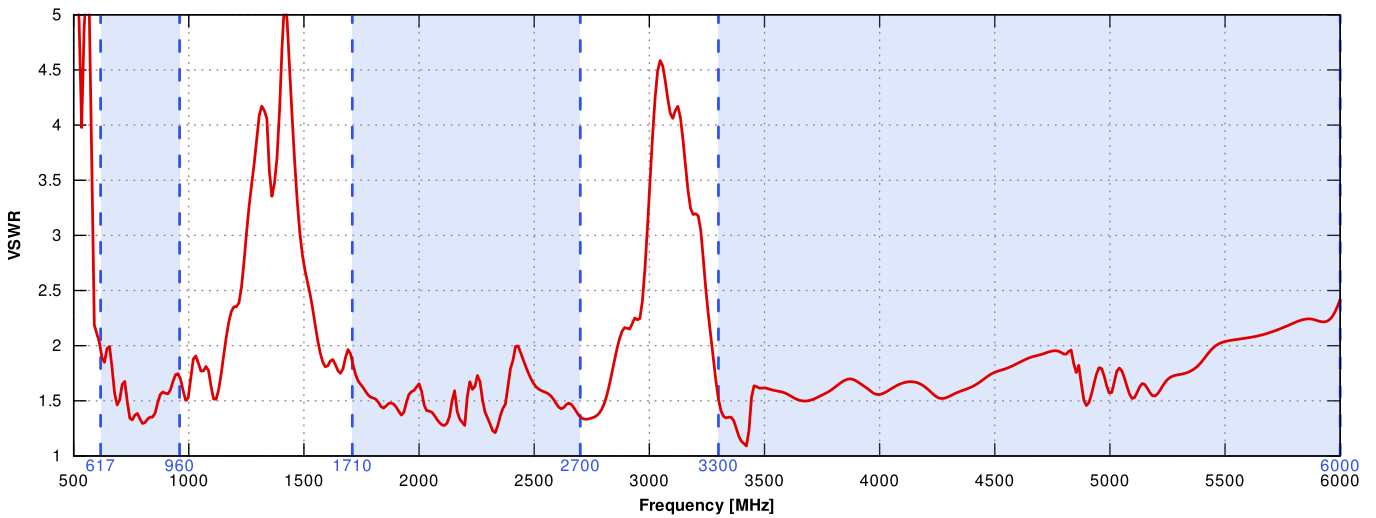
<b>MATERIALS</b>	ABS, aluminum, PTFE, Fiberglass
<b>CONNECTOR TYPE</b>	RJ45
<b>INGRESS PROTECTION</b>	IP67
<b>DIMENSIONS</b>	486.0 x 292.2 x 105.6 mm 19.13 x 11.50 x 4.16 inch
<b>WEIGHT</b>	2.5 kg 5.51 lbs
<b>OPERATING TEMPERATURE</b>	From -40°C to 70°C From -40°F to 167°F
<b>MAST DIAMETER</b>	25-66mm 0.98-2.60 inch
<b>ENCLOSURE RECOMMENDED TIGHTENING TORQUE</b>	0.6 - 0.8 Nm

## POE SPECIFICATION

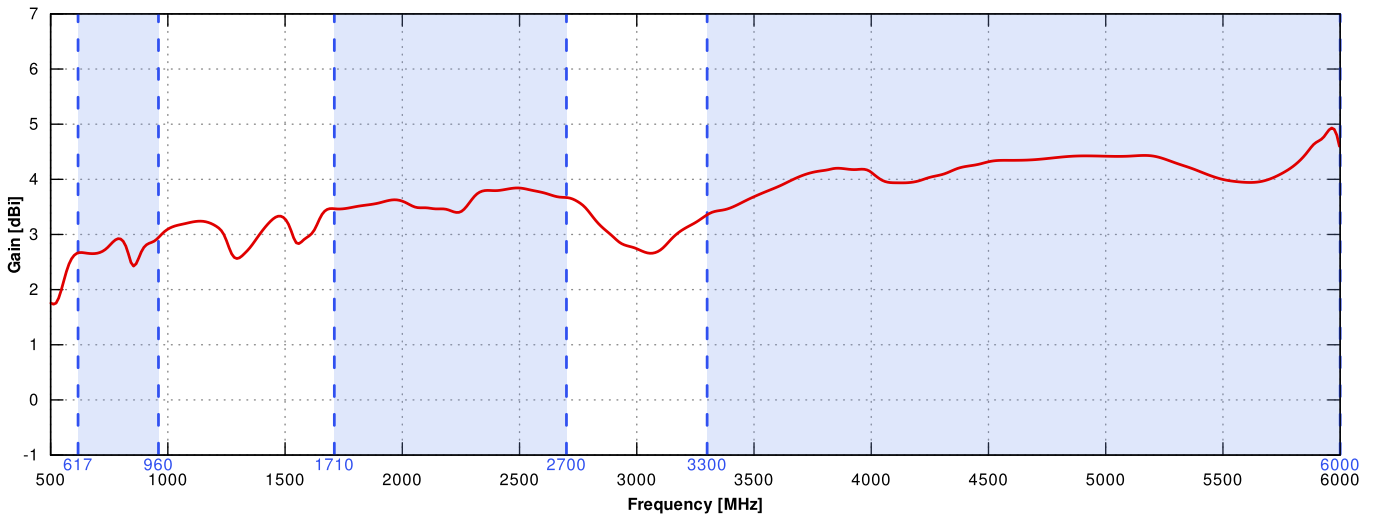
<b>POE TYPE</b>	Passive PoE up to 24V, not compatible with an 802.3af/at power source!
<b>POE IN MODE</b>	Mode type: B
<b>IEEE STANDARD</b>	IEEE 802.3ab 1000Base-T Gigabit Ethernet

# PLOTS

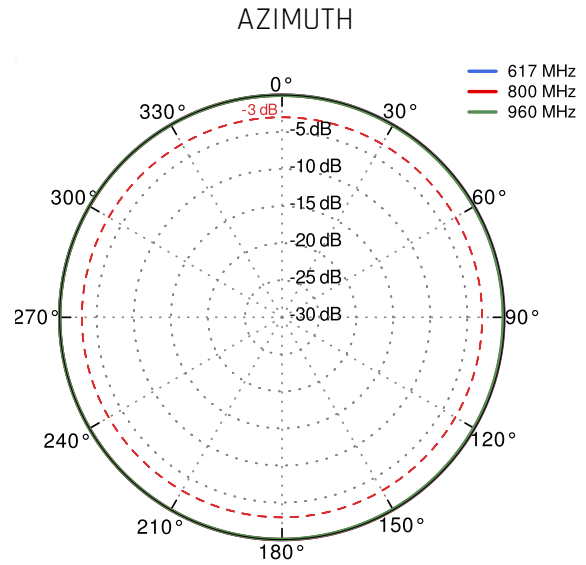
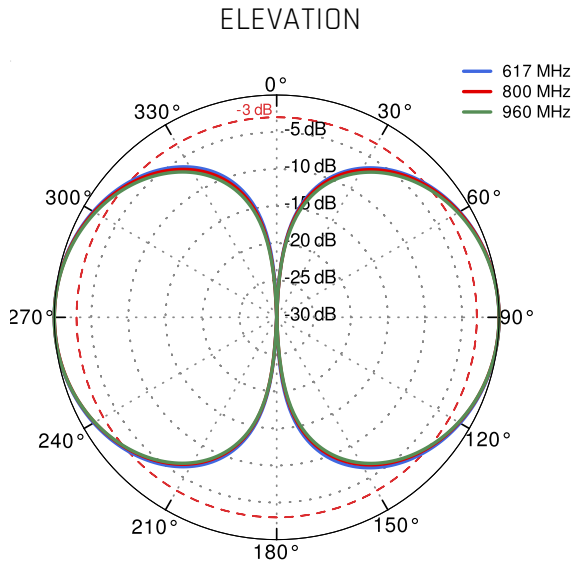
VSWR for LTE antenna



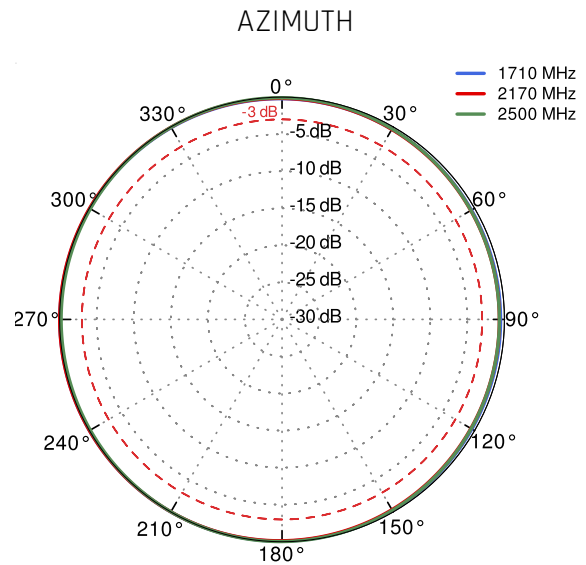
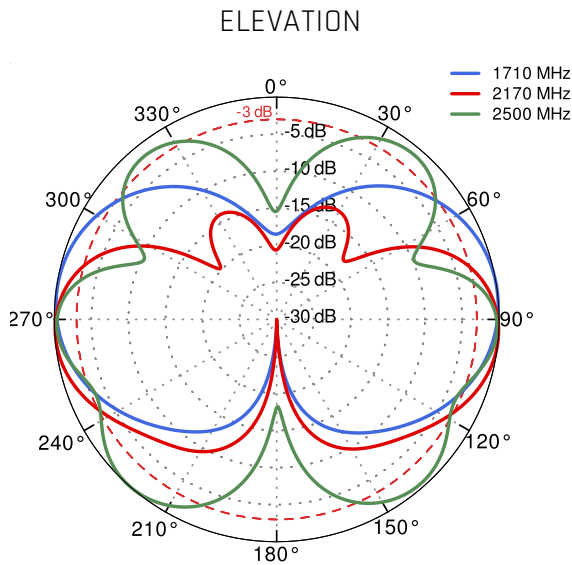
Gain for LTE antenna



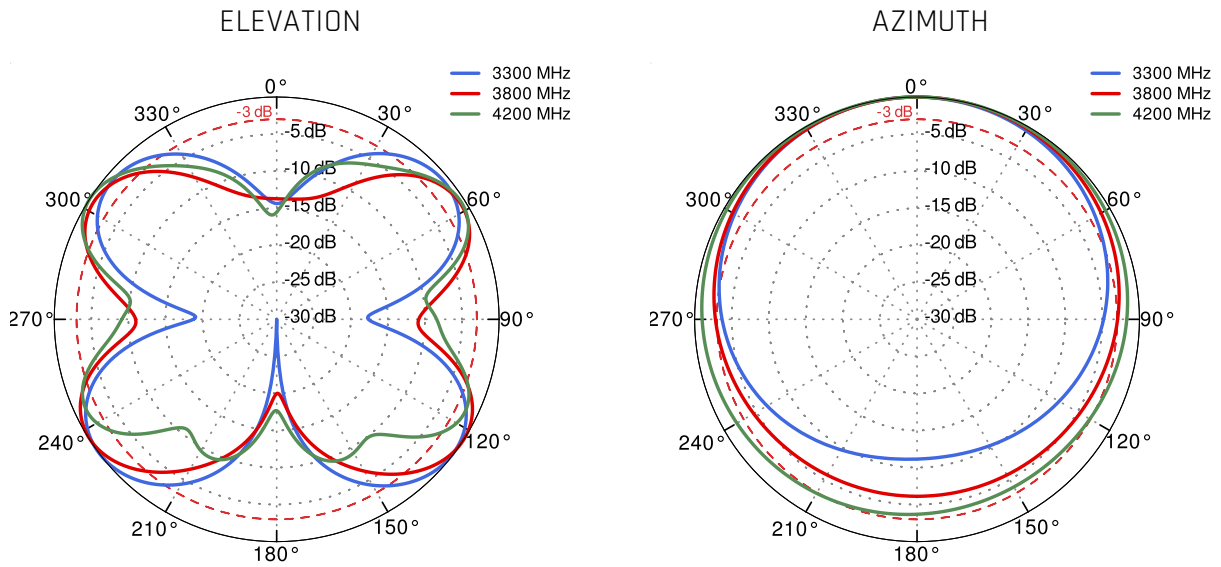
5G/LTE from 617MHz to 960MHz



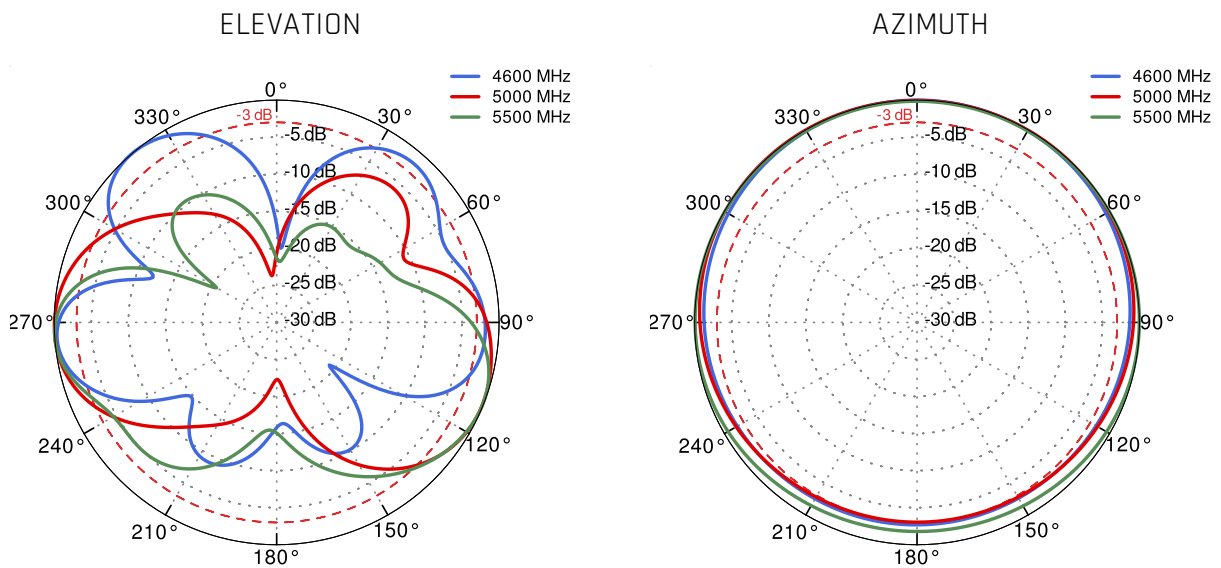
5G/LTE from 1.71GHz to 2.5GHz



5G/LTE from 3.3GHz to 4.2GHz



5G/LTE from 4.5GHz to 5.5GHz



## **DIMENSIONS**

