

# QuCube for Teltonika TRB500

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

**QuCube for Teltonika TRB500** is a revolutionary outdoor antenna solution that combines minimized dimensions with exceptional antenna performance. Designed specifically as an **antenna for Teltonika TRB500 router**, it delivers reliable, high-speed wireless connectivity in even the most demanding environments. This all-in-one unit integrates high-gain omnidirectional **5G antennas** with Teltonika routers into a compact, rugged **IP68-rated waterproof enclosure**. The integration reduces installation complexity while enabling rapid deployment of advanced outdoor 5G solutions.

Engineered for outdoor and mobile applications, **QuCube** is ideal for use in transportation systems, for underground connectivity or urban and public installations. It ensures consistent performance wherever dependable connectivity is essential.

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!



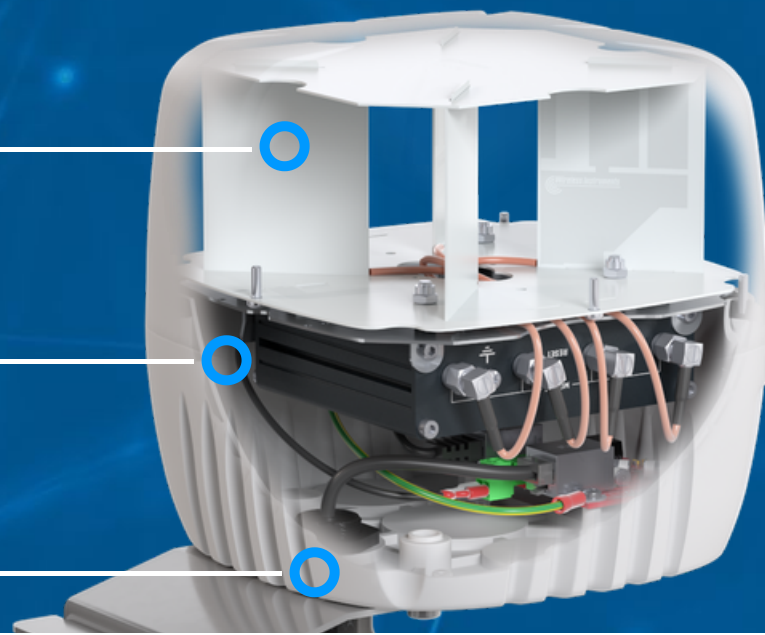
OUTDOOR ANTENNA WORKS IN **ANY WEATHER CONDITIONS**, IP68



ANTENNA **PERFECTLY MATCHED** WITH THE ROUTER



MADE IN **EUROPE**



## 5G/LTE SPECIFICATION

<b>FREQUENCY</b>	0.58 - 2.0 GHz 2.0 - 3.5 GHz 3.5 - 5.0 GHz 5.0 - 6.35 GHz
<b>MAX. GAIN</b>	0.58 - 2.0 GHz : 2 dBi 2.0 - 3.5 GHz : 3.2 dBi 3.5 - 5.0 GHz : 3.1 dBi 5.0 - 6.35 GHz : 3.8 dBi
<b>SUPPORTED LTE BANDS</b>	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 65, 66, 67, 68, 69, 70, 71, 74, 75, 76, 85, 103, 106, 107, 111, 252, 253, 254, 255, 256
<b>SUPPORTED 5G BANDS</b>	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n24, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n50, n51, n53, n54, n65, n66, n67, n68, n70, n71, n74, n75, n76, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n91, n92, n93, n94, n95, n97, n98, n99, n100, n101, n105, n106, n109, n110, n250, n251, n252, n253, n254, n255, n256
<b>VSWR</b>	<2.50, max <3.00
<b>BEAMWIDTH</b>	360°/35° ±5°
<b>POLARIZATION</b>	Vertical
<b>IMPEDANCE</b>	50 Ω

## MECHANICAL SPECIFICATION

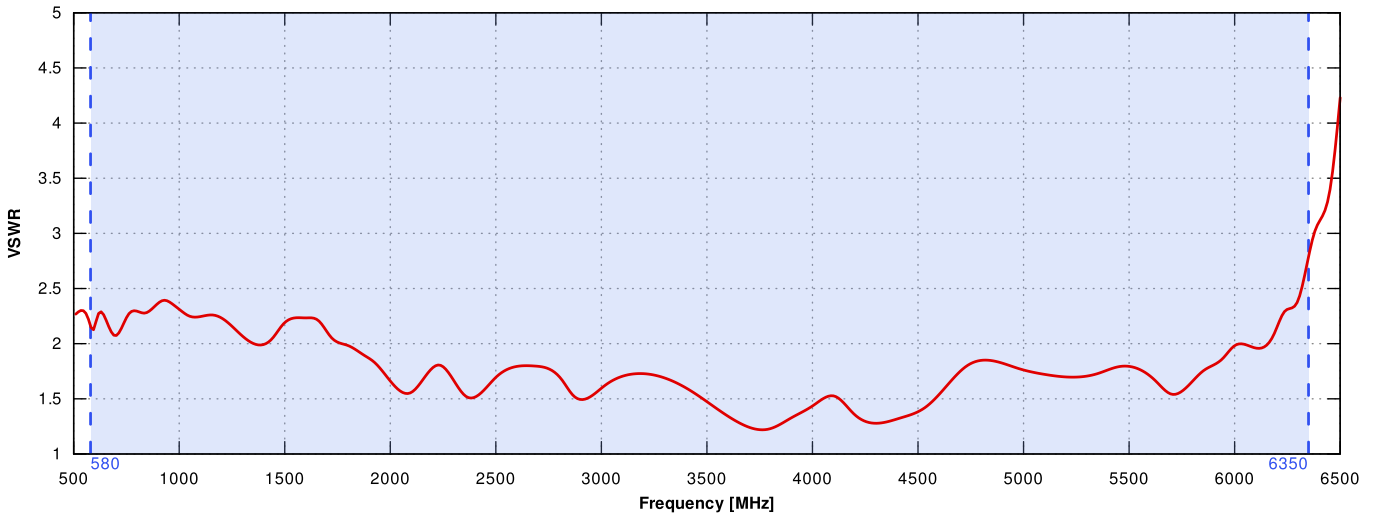
<b>MATERIAL</b>	ABS
<b>CONNECTOR</b>	QuRJ45
<b>OUTER DIMENSIONS</b>	160 x 160 x 155 mm 6.3 x 6.3 x 6.10 inch
<b>WEIGHT</b>	1.5 kg
<b>OPERATING TEMPERATURE</b>	-40°C to 80°C -40°F to 176°F
<b>INGRESS PROTECTION</b>	IP67 and IP68

## MOUNTING KIT

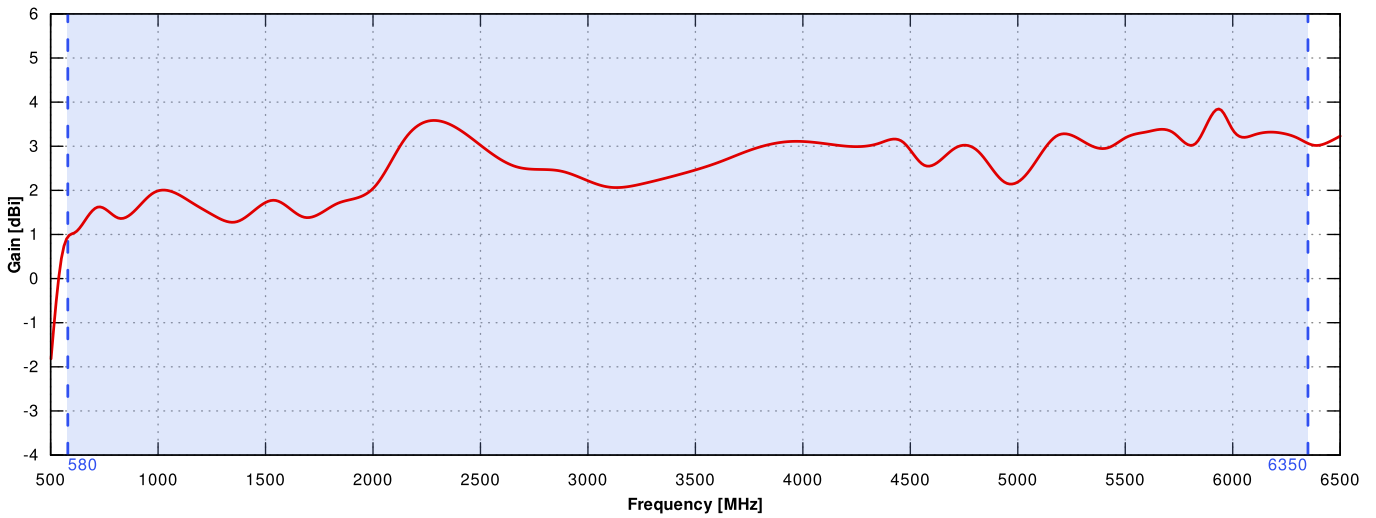
<b>MATERIAL</b>	Galvanized steel
<b>WEIGHT</b>	0.4kg
<b>MOUNTING PLACE</b>	Wall or mast
<b>MAST DIAMETER</b>	25-66 mm 0.98-2.60 inch

# PLOTS

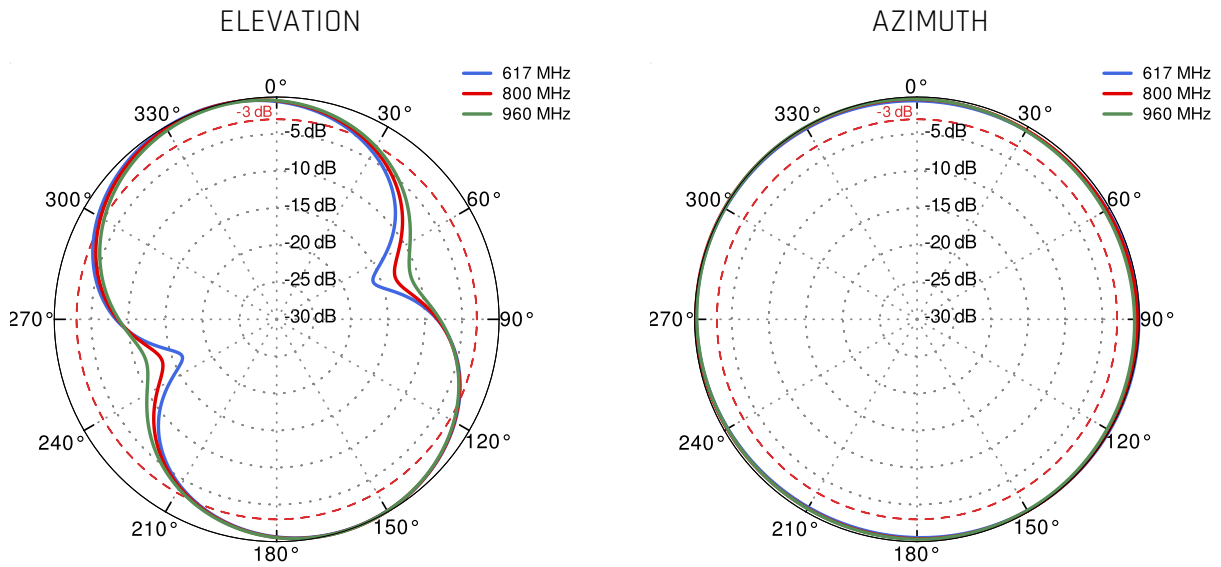
## 5G/LTE VSWR



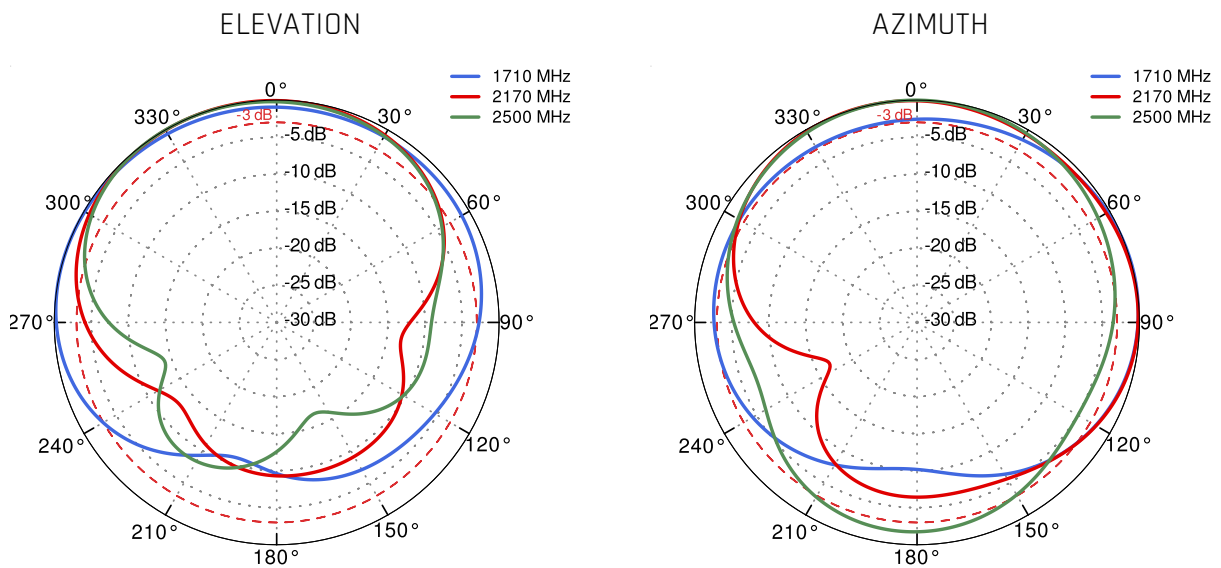
## 5G/LTE GAIN



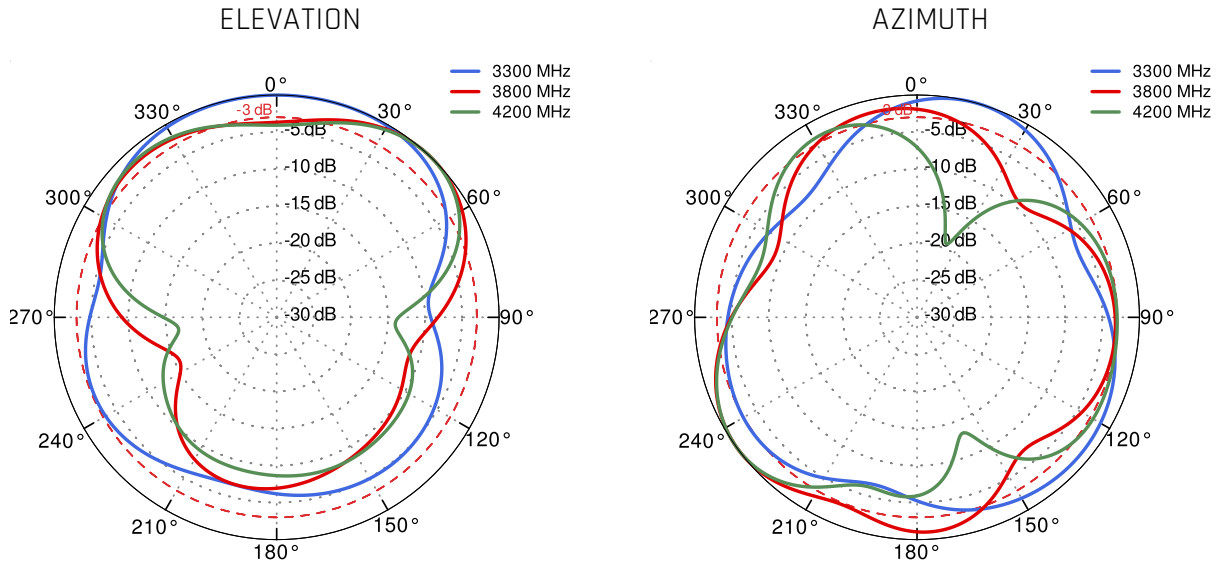
### 5G/LTE from 617MHz to 960MHz



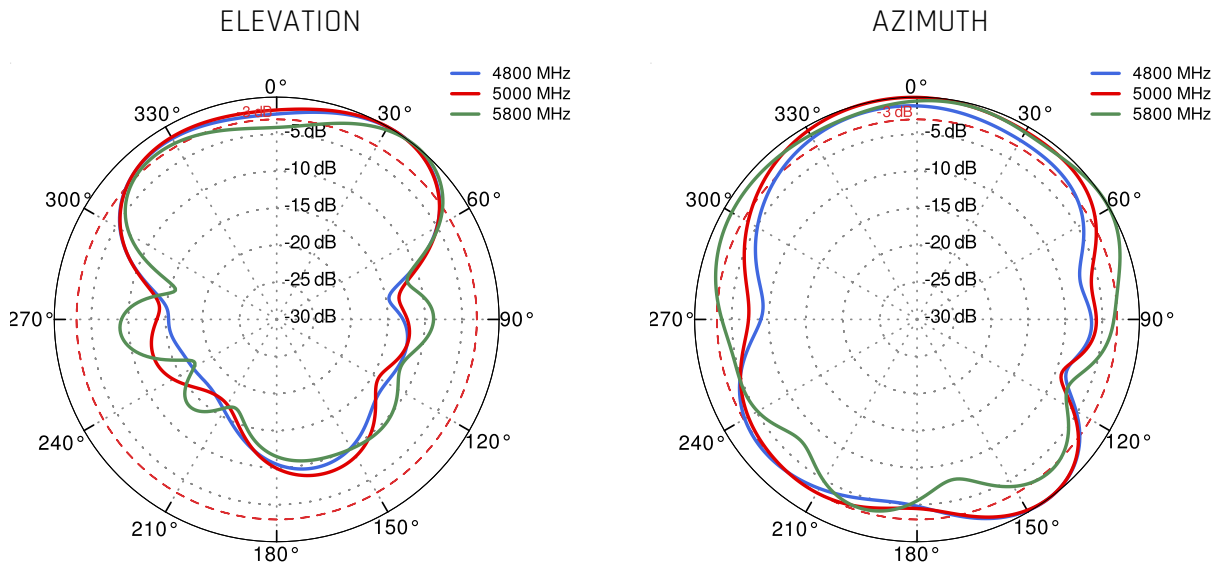
### 5G/LTE from 1.71GHz to 2.7GHz



5G/LTE from 3.3GHz to 4.2GHz



5G/LTE from 4.8GHz to 5.8GHz



## DIMENSIONS

