# QuSpot for Teltonika TRB501

## INTEGRATED MULTI-BAND LTE & 5G OMNI ANTENNA + PLACE TO INSTALL TELTONIKA TRB501 (ALL-IN-ONE)

**QuSpot for TRB501** is an outdoor antenna designed to provide reliable wireless connectivity in a variety of environments. This product is an all in one solution that integrates a high gain omnidirectional 5G antennas with TRB501 into a single IP68 enclosure. Such integration allows implementation of new outdoor TRB501 solutions. QuSpot for TRB501 is an ideal solution for outdoor wireless connectivity in moving applications such as transportation, yachting, boats and camping but also city centres with high signal density.

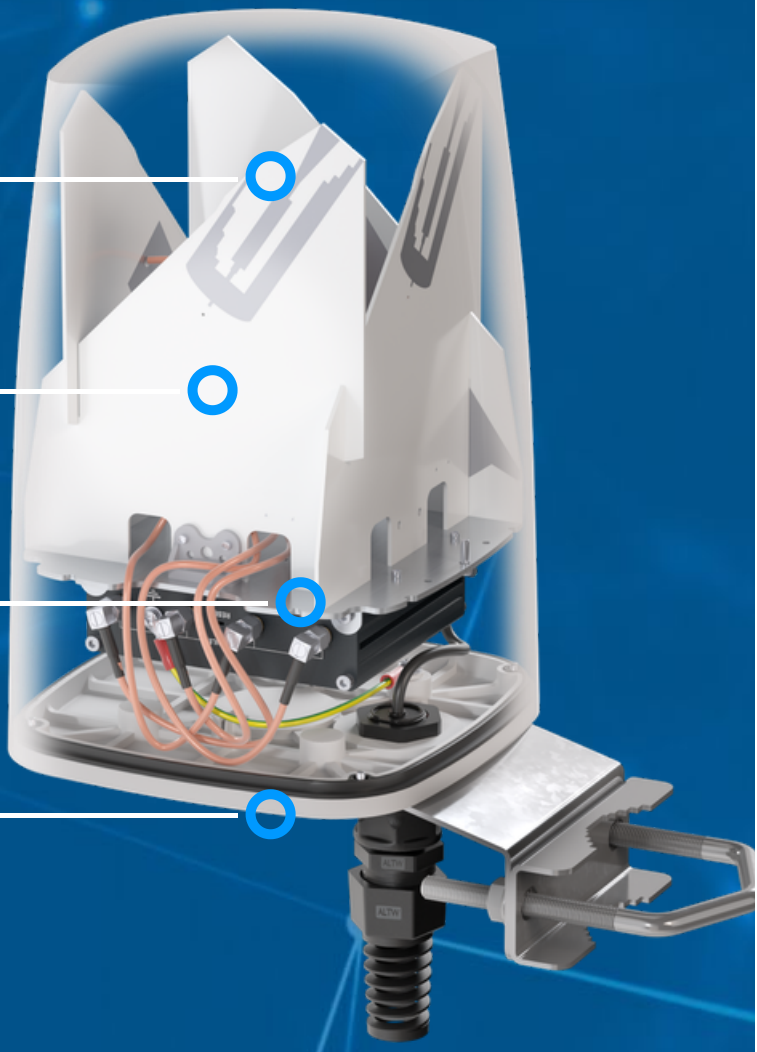
5G | GPS | 617-6000MHz | 4 dBi | OMNI DIRECTIONAL | IP 68 | BAND 71

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

ANTENNA **PERFECTLY MATCHED** WITH THE ROUTER

PASSIVE **POE SUPPORT**

MADE IN **EUROPE**



# 5G ANTENNA SPECIFICATION

| | |
|---|---|
| FREQUENCY | 0.617 - 0.960 GHz<br>1.6 - 3.0 GHz<br>3.0 - 5.0 GHz<br>5.0 - 6.0 GHz |
| MAX. GAIN | 0.617 - 0.960 GHz : 2 dBi<br>1.6 - 3.0 GHz : 4 dBi<br>3.0 - 5.0 GHz : 4 dBi<br>5.0 - 6.0 GHz : 2 dBi |
| SUPPORTED LTE BANDS | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 23, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 52, 53, 54, 65, 66, 67, 68, 69, 70, 71, 85, 103, 106, 111, 252, 254, 256 |
| SUPPORTED 5G BANDS | n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n53, n54, n65, n66, n67, n68, n70, n71, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n99, n100, n101, n106, n252, n254, n256 |
| VSWR | <2.00, max <3.00 |
| BEAMWIDTH | 360°/35° ±5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |


Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

# MECHANICAL SPECIFICATION

| | |
|---|---|
| RADOME MATERIAL | UV-resistant ASA |
| OPERATING HUMIDITY | up to 100% RH |
| MATERIALS | aluminum, PTFE |
| CONNECTOR TYPE | RJ45 |
| INGRESS PROTECTION | IP68 |
| DIMENSIONS | 160 x 160 x 240 mm<br>6.3 x 6.3 x 9.45 inch |
| WEIGHT | 1.5 kg<br>3.31 lbs |
| OPERATING TEMPERATURE | From -40°C to 75°C<br>From -40°F to 167°F |
| MAST DIAMETER | 25-66 mm<br>0.98-2.60 inch |
| ENCLOSURE RECOMMENDED TIGHTENING TORQUE | 0.5 - 0.7 Nm |


Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

# FREQUENCY BANDS

**LTE / 4G**

617 MHz

| | | | | | | |
|---|---|---|---|---|---|---|
| 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 | |

4300 MHz

**5G**

617 MHz

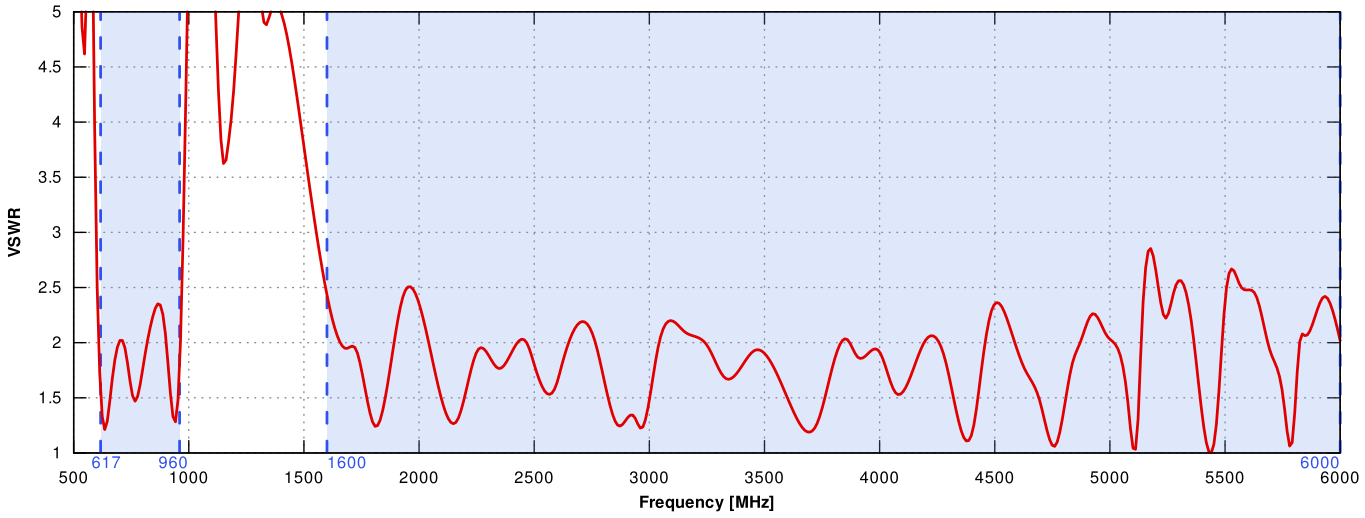
| | | | | | | |
|---|---|---|---|---|---|---|
| n1 | n2 | n3 | n5 | n7 | n8 | n12 |
| n13 | n14 | n18 | n20 | n25 | n26 | n28 |
| n29 | n30 | n34 | n38 | n39 | n40 | n41 |
| n48 | n53 | n65 | n66 | n67 | n71 | n77 |
| n78 | n80 | n81 | n82 | n83 | n84 | n85 |
| n86 | n89 | n90 | n95 | n97 | n98 | n100 |
| n101 | n256 | | | | | |

4300 MHz

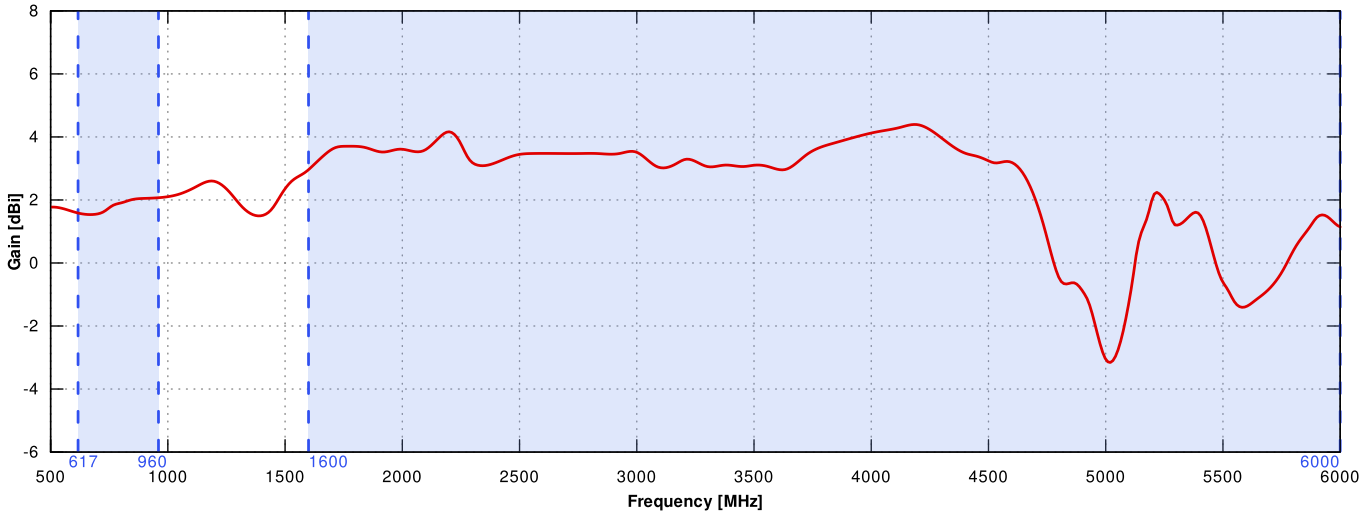

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

# PLOTS

## VSWR for 5G/LTE antenna




## Gain for 5G/LTE antenna

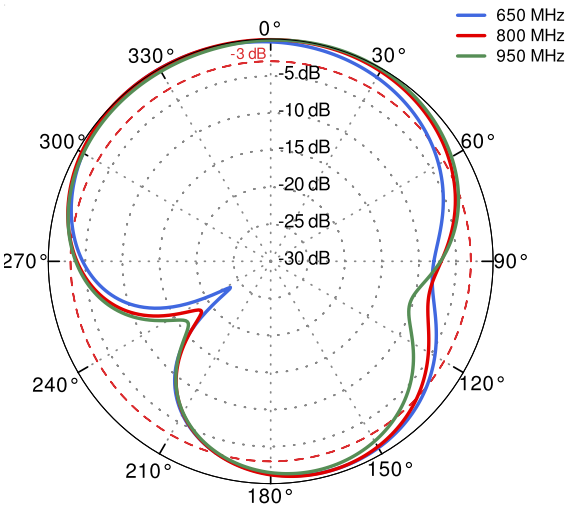




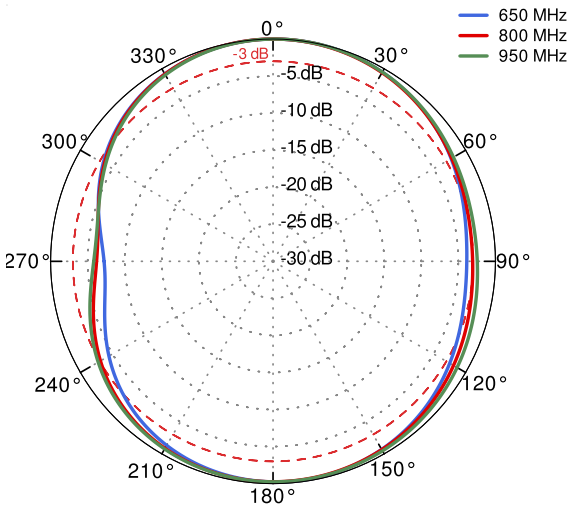

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

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

ELEVATION

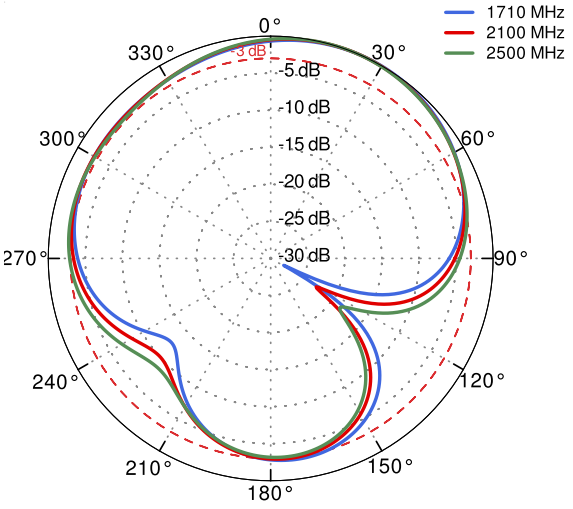



AZIMUTH

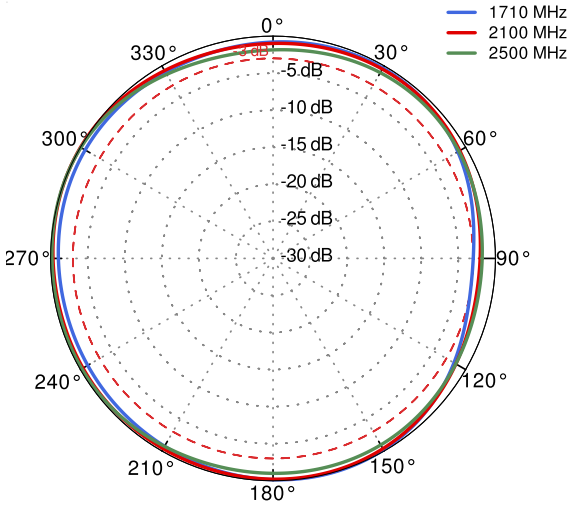



## 5G/LTE From 1710MHz to 2500MHz

ELEVATION




AZIMUTH

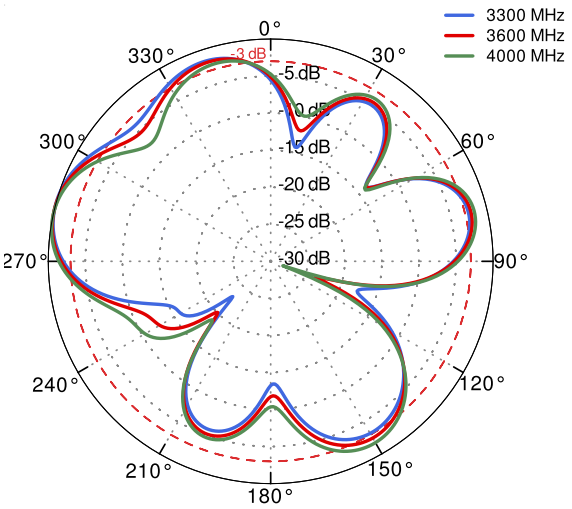




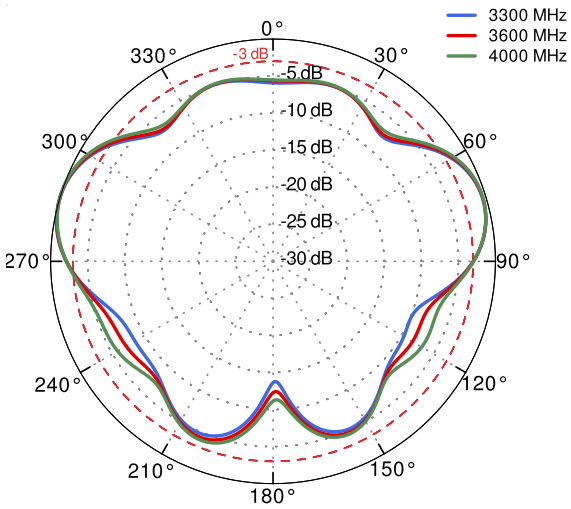
Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

## 5G/LTE From 3300MHz to 4000MHz

ELEVATION

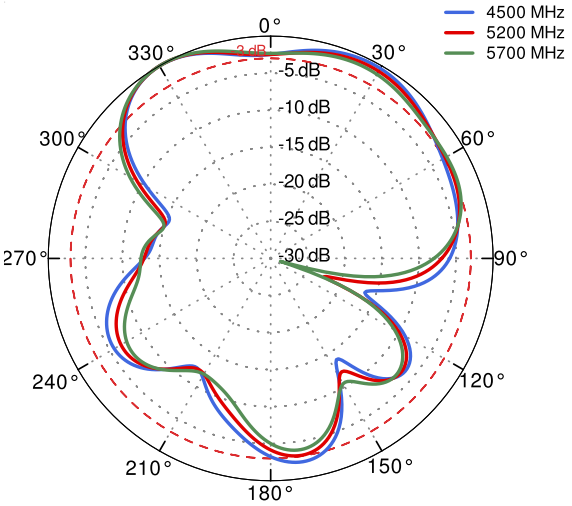



AZIMUTH

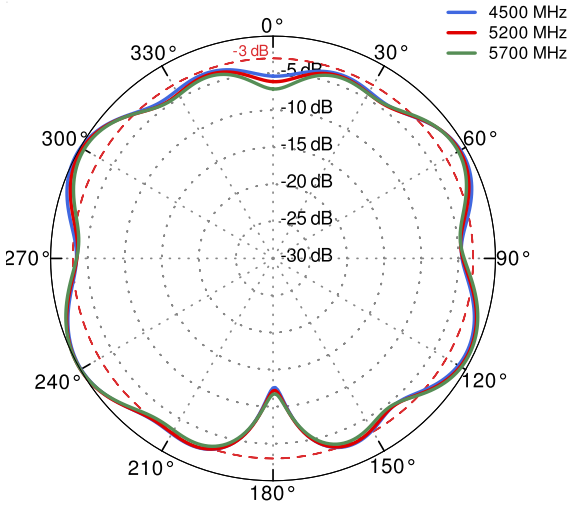



## 5G/LTE From 4500MHz to 5500MHz

ELEVATION



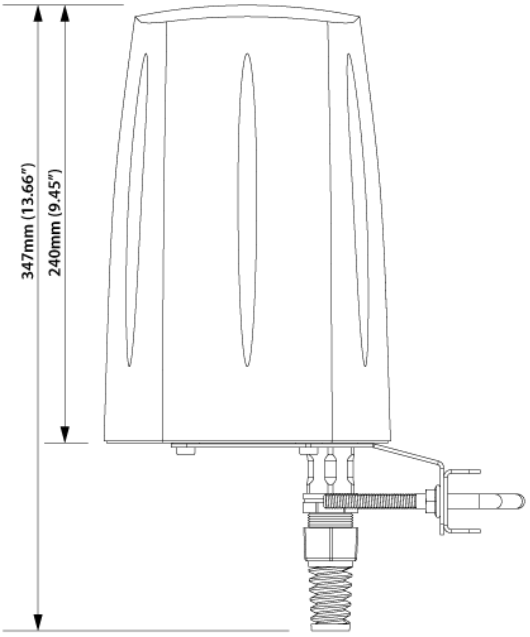

AZIMUTH

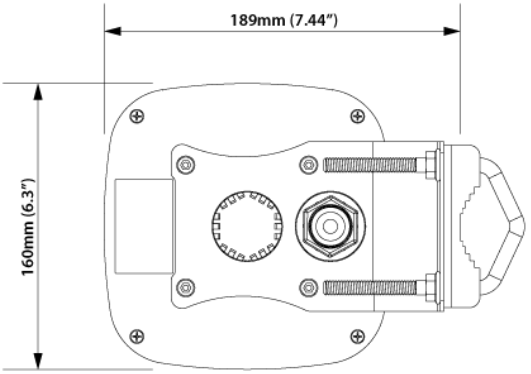




Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.

# DIMENSIONS




WWW.QUWIRELESS.COM

**Sales email:** sales@quwireless.com **Tel:** +48 513 900 416

**Support email:** support@quwireless.com **Website:** www.quwireless.com

**Address:** Wireless Instruments Sp. z o.o., ul. Kościuszki 27, 52-116 Iwiny, Poland

Copyright © 2023, Wireless Instruments. Specifications and information given in this document are subject to change without prior notice.