# QuSpot for Teltonika RUTX12/RUTX14

**Integrated multi-band 5G/LTE omni antenna + WiFi omni antenna + GPS Active antenna + Bluetooth antenna + place to install Teltonika RUTX12/RUTX14 (All-in-one)**

QuSpot omni 5G/LTE antenna for Teltonika **RUTX12** or **RUTX14** router is a perfect outdoor device for mobile and fixed installations like industrial, CCTV, hotspots, yachts, boats, campers, RV etc. It also has embedded Wi-Fi dualband 2.4 & 5 GHz omni antenna, GPS antenna and Bluetooth antenna. If you use **RUTX12** or **RUTX14** with QuSpot antenna, you get an integrated complete solution with embedded router and multi band antennas in one enclosure.

5G | Wi Fi 6E | BLUETOOTH | GPS | 617-6000MHz | 7 dBi | OMNI DIRECTIONAL | IP 68 | -40° TO +80°

- OUTDOOR ANTENNA WORKS IN **ANY WEATHER CONDITIONS**, IP68
- ANTENNA **PERFECTLY MATCHED** WITH THE ROUTER
- PASSIVE **POE SUPPORT**
- MADE IN **EUROPE**



# 5G/LTE 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 |
| CONNECTOR | 4x SMA |
| CABLE TYPE | RG316 |



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# WI-FI ANTENNA SPECIFICATION

| | |
|---|---|
| FREQUENCY | 2.4 - 2.5 GHz<br>4.7 - 6 GHz |
| MAX. GAIN | 2.4 - 2.5 GHz : 6 dBi<br>4.7 - 6 GHz : 7 dBi |
| VSWR | <1.70, max <2.00 |
| BEAMWIDTH | 360°/25° ±5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |
| CONNECTOR | 2x RPSMA |
| CABLE TYPE | RG316 |

# BLUETOOTH ANTENNA SPECIFICATION

| | |
|---|---|
| FREQUENCY | 2.4 - 2.5 GHz<br>4.7 - 6 GHz |
| GAIN | 2.4 - 2.5 GHz : 6 dBi<br>4.7 - 6 GHz : 7 dBi |
| VSWR | <1.70, max <2.00 |
| BEAMWIDTH | 360°/25° ±5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |
| CONNECTOR | 1x RPSMA |



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| | |
|---|---|
| CABLE TYPE | RG316 |

## GPS ACTIVE ANTENNA

| | |
|---|---|
| FREQUENCY | 1.56 – 1.61 GHZ |
| VSWR | < 2 |
| GAIN | 3 dBi |
| GAIN 3V | 28 dBi |
| DC POWER INPUT | 2.5 V ~ 6.5 V |
| POWER CONSUMPTION | 2.5-6.5mA |
| IMPEDANCE | 50 Ω |
| POLARIZATION | RHCP (right hand circularly polarized) |
| CONNECTOR | 1x SMA |
| CABLE TYPE | RG174 |


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# MECHANICAL SPECIFICATION

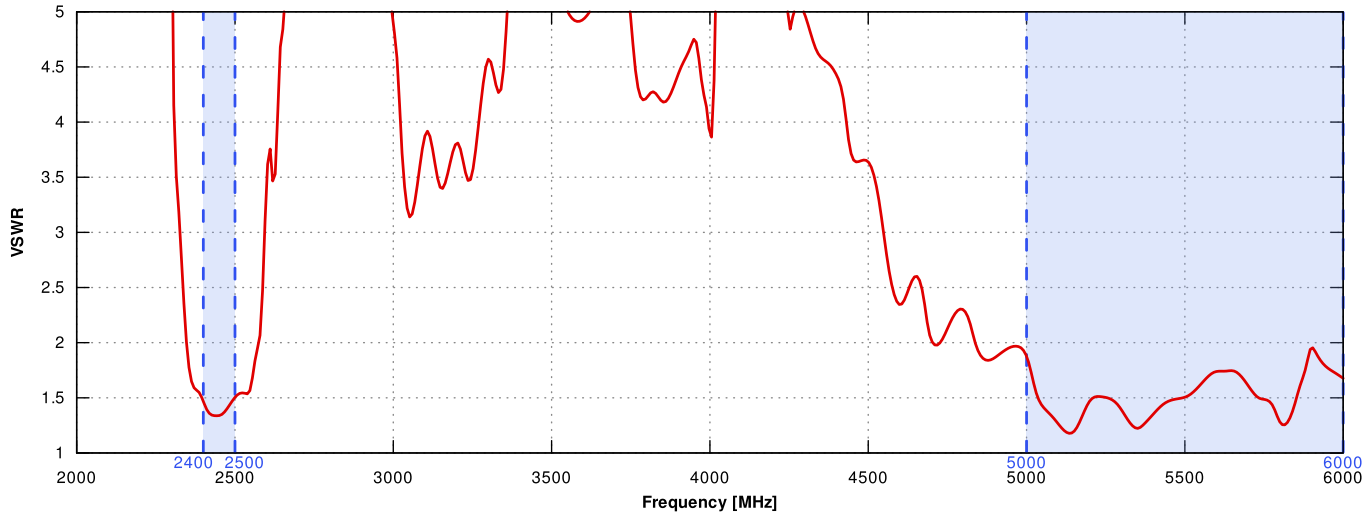
| | |
|---|---|
| RADOME MATERIAL | UV-resistant ASA |
| OPERATING HUMIDITY | up to 100% RH |
| MATERIALS | aluminum, PTFE |
| CONNECTOR TYPE | RJ45 |
| INGRESS PROTECTION | IP68 |
| DIMENSIONS | 160 x 160 x 240 mm<br>6.3 x 6.3 x 9.45 inch |
| WEIGHT | 1.5 kg<br>3.31 lbs |
| OPERATING TEMPERATURE | From -40°C to 80°C<br>From -40°F to 176°F |
| ENCLOSURE RECOMMENDED TIGHTENING TORQUE | 0.5 - 0.7 Nm |
| MAST DIAMETER | 25-66 mm<br>0.98-2.60 inch |



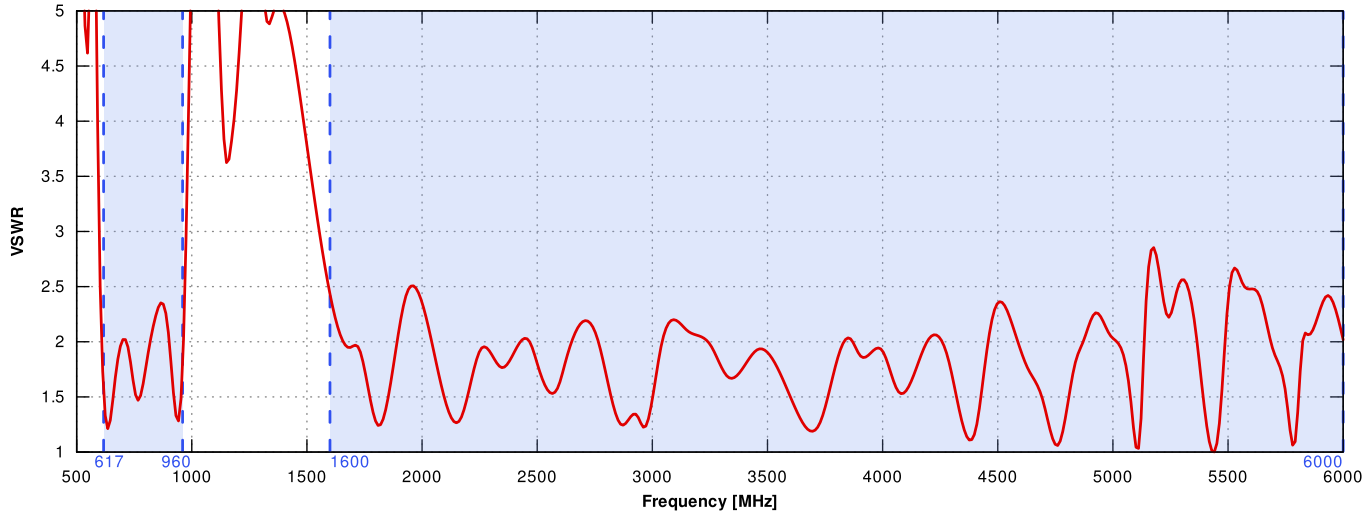
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# PLOTS

## VSWR for Wi-Fi antenna



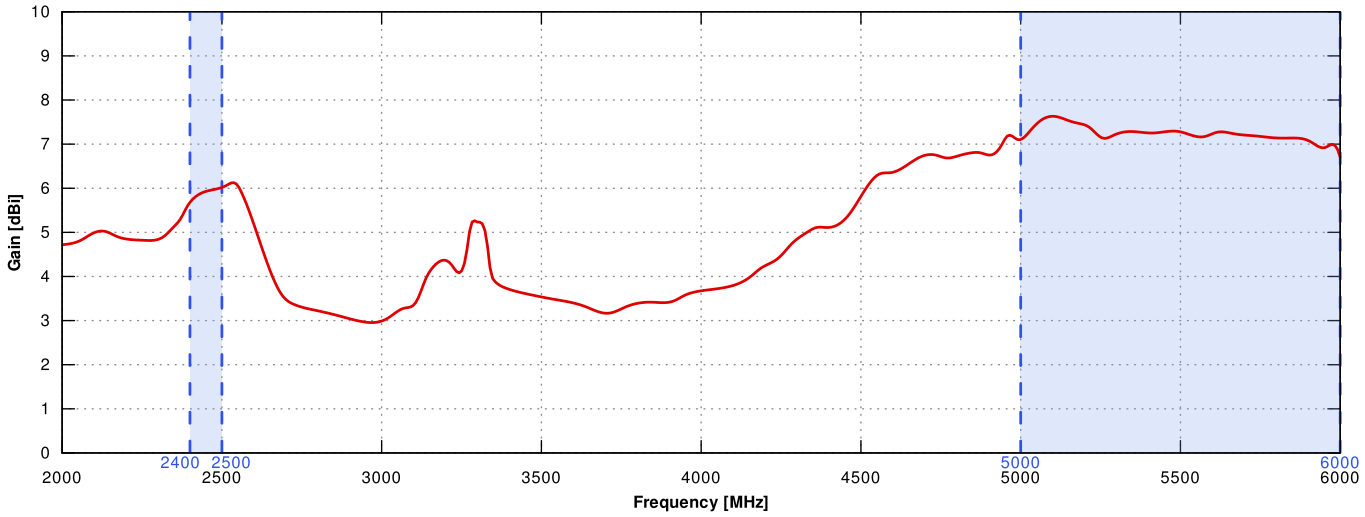

## VSWR for 5G/LTE antenna



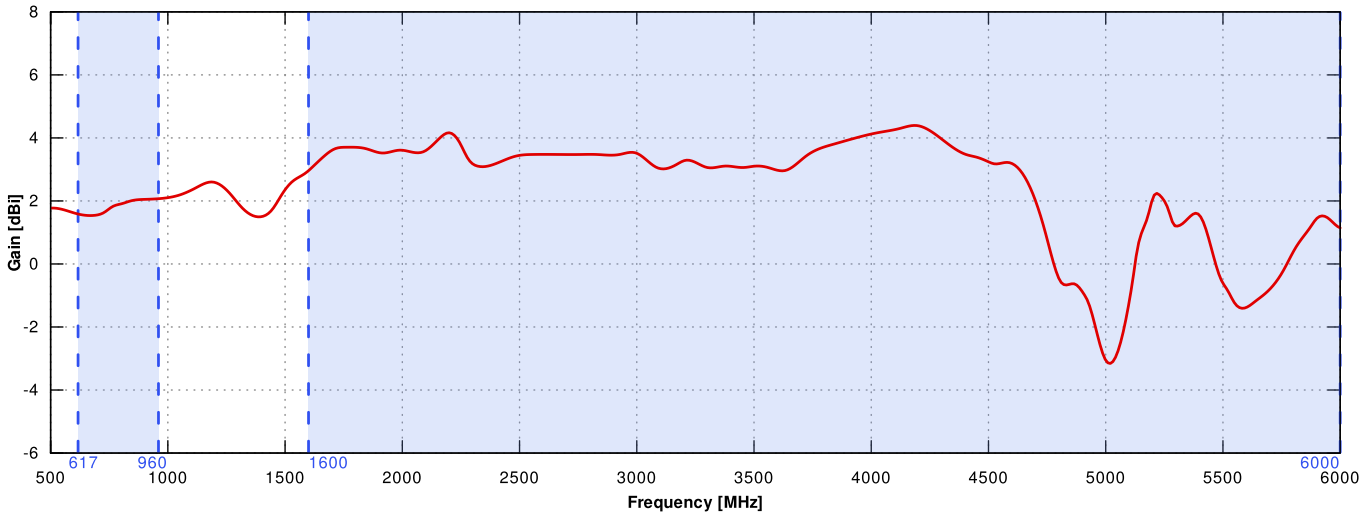



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## Gain for Wi-Fi antenna




## Gain for 5G/LTE antenna

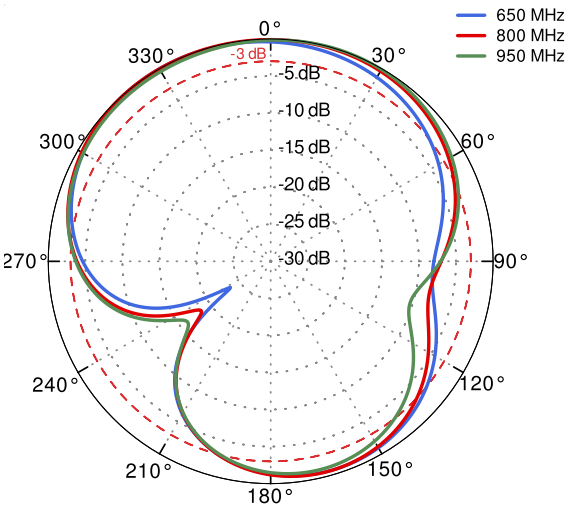




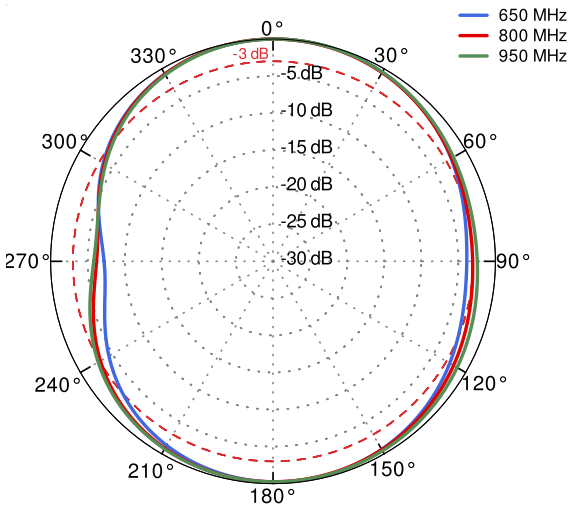

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## 5G/LTE From 650MHz to 950MHz

ELEVATION

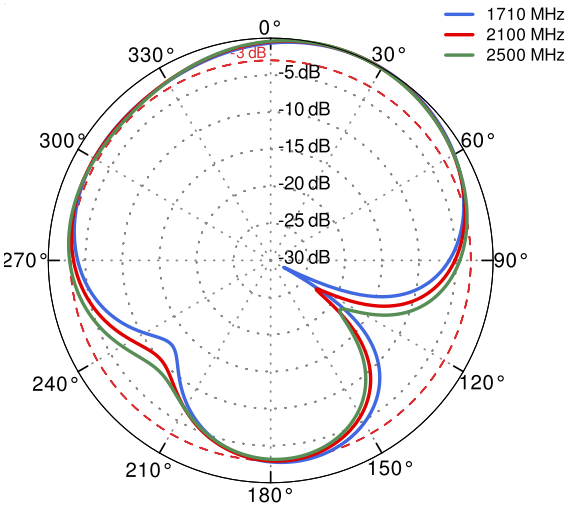



AZIMUTH

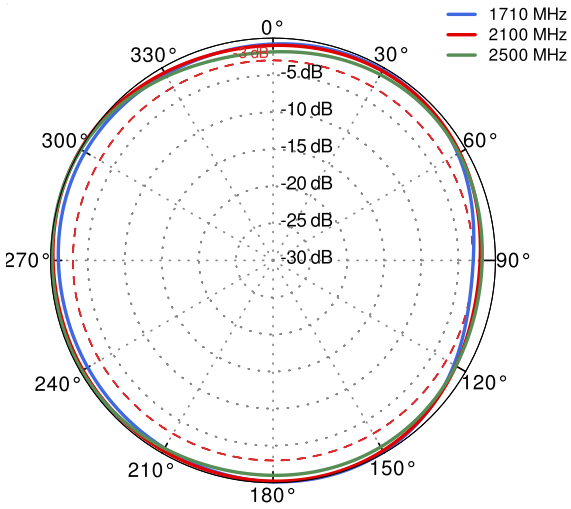



## 5G/LTE From 1710MHz to 2500MHz

ELEVATION




AZIMUTH

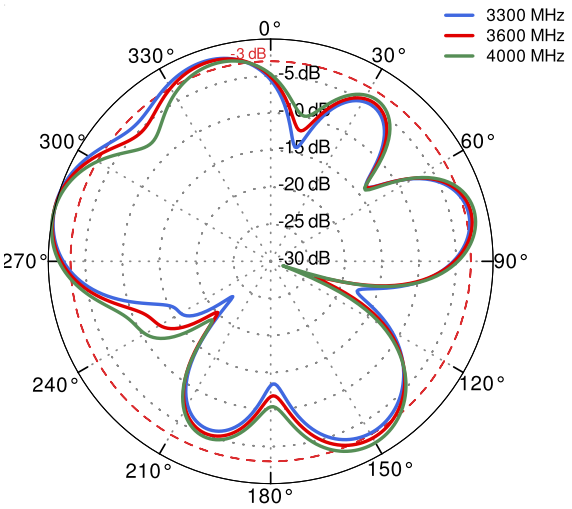




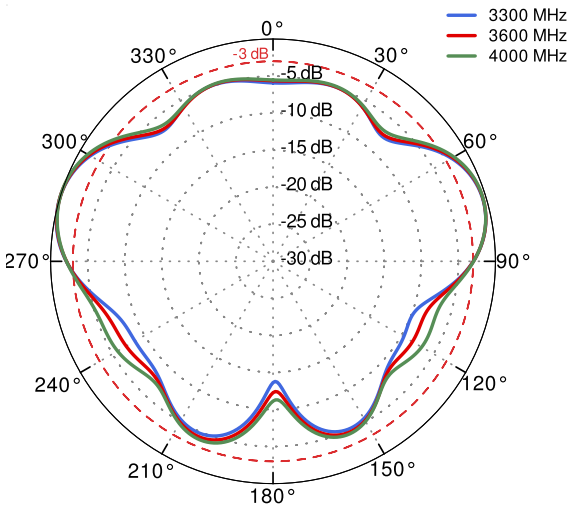

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## 5G/LTE From 3300MHz to 4000MHz

ELEVATION

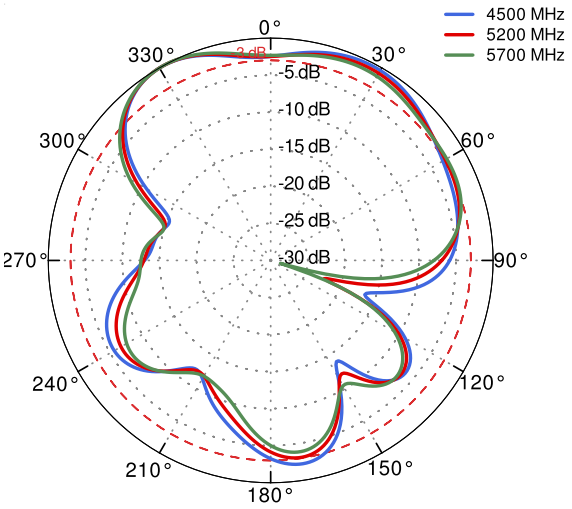



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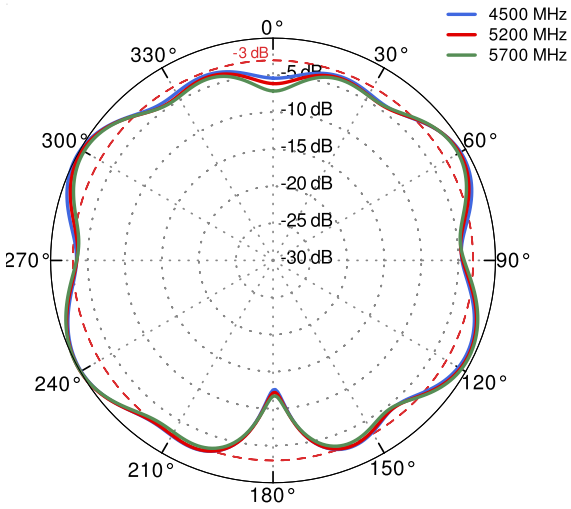



## 5G/LTE From 4500MHz to 5500MHz

ELEVATION




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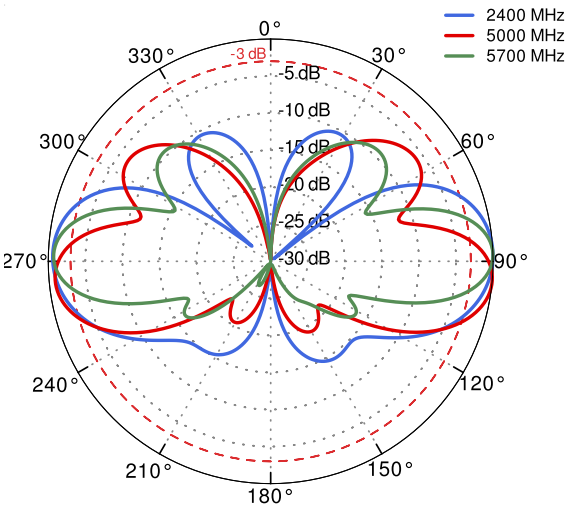




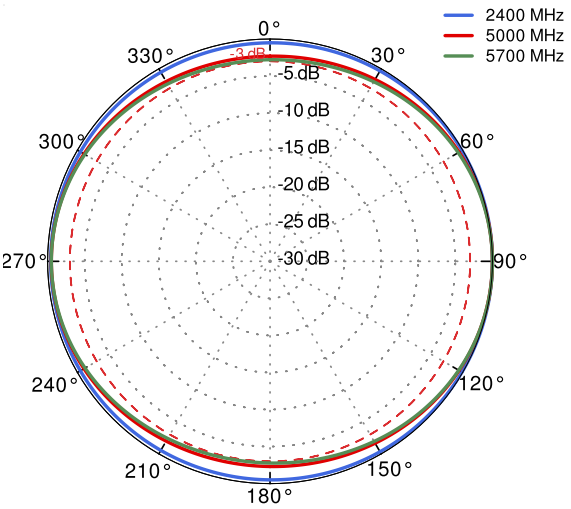

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## Wi-Fi 2.4GHz and 5GHz

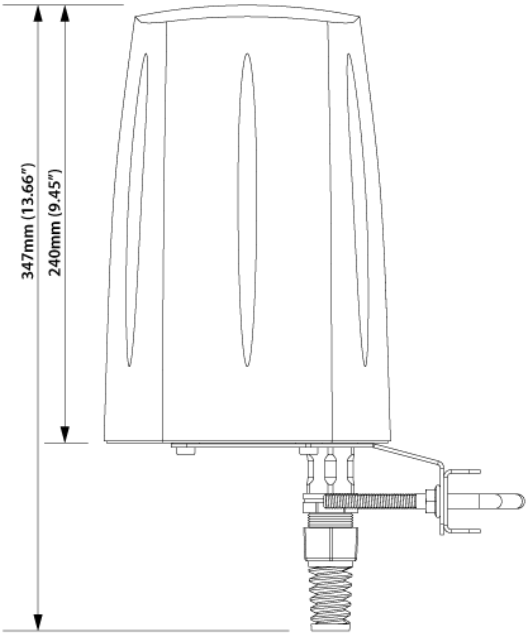
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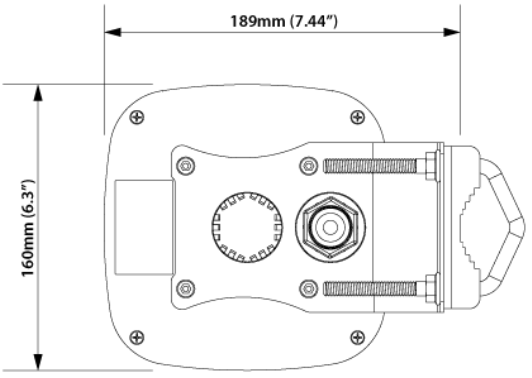



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# DIMENSIONS




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