# QuSpot for Queclink WR220

## INTEGRATED MULTI-BAND LTE & 5G OMNI ANTENNA + WI-FI 6E OMNI ANTENNA + BLUETOOTH ANTENNA + GPS ACTIVE ANTENNA + PLACE TO INSTALL QUECLINK WR220 (ALL-IN-ONE)

**QuSpot for Queclink WR220** 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, Wi-Fi, Bluetooth and GPS antennas with WR220 into a single IP68 enclosure. Such integration allows implementation of new outdoor solutions.
QuSpot for Queclink WR220 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.
Wi-Fi 6E support!

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



# 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 |
| CONNECTOR | 2x SMA |
| CABLE TYPE | RG316 |


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# WI-FI AND BLUETOOTH ANTENNA SPECIFICATION

| | |
|---|---|
| FREQUENCY | 2.4 - 2.5 GHz<br>5.0 - 7.2 GHz |
| GAIN | 2.4 - 2.5 GHz : 6 dBi<br>5 GHz: 7.5dBi<br>7 GHz: 7.5dBi |
| VSWR | < 1.50, max < 2.00 |
| BEAMWIDTH | 360°/25° ±5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |
| CONNECTOR | 3x RPSMA |
| CABLE TYPE | RG316 |

# GPS ACTIVE ANTENNA SPECIFICATION

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


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| | |
|---|---|
| POLARIZATION | RHCP (right hand circularly polarized) |
| CONNECTOR | 1x SMA |
| CABLE TYPE | RG174 |

## MECHANICAL SPECIFICATION

| | |
|---|---|
| MATERIALS | ASA, 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 |
| ENCLOSURE RECOMMENDED TIGHTENING TORQUE | 0.5 - 0.7 Nm |
| MAST DIAMETER | 25-66 mm<br>0.98-2.60 inch |


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# 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

# COMPATIBLE ROUTERS

## VARIANT: AQWR220S


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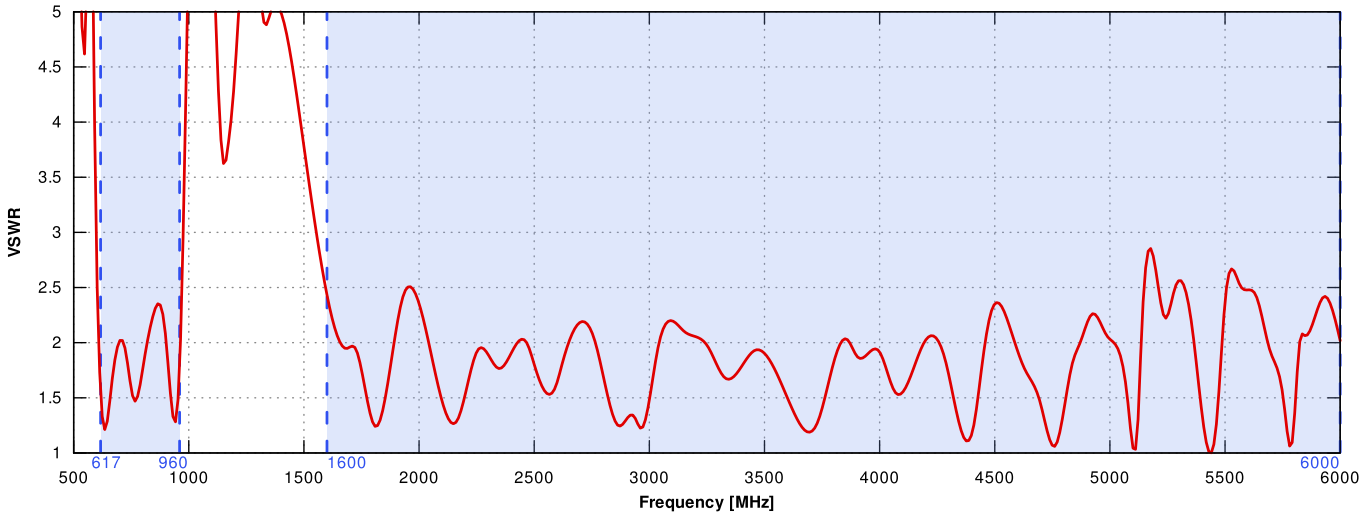
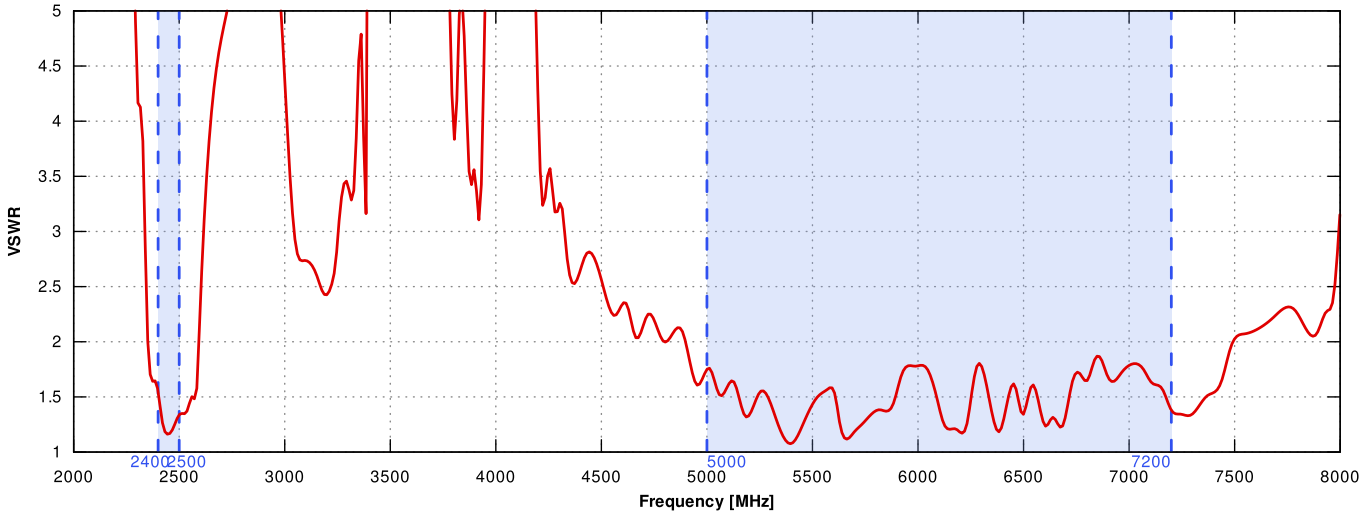
# PLOTS

## VSWR for 5G/LTE antenna




## VSWR for Wi-Fi & BT antenna



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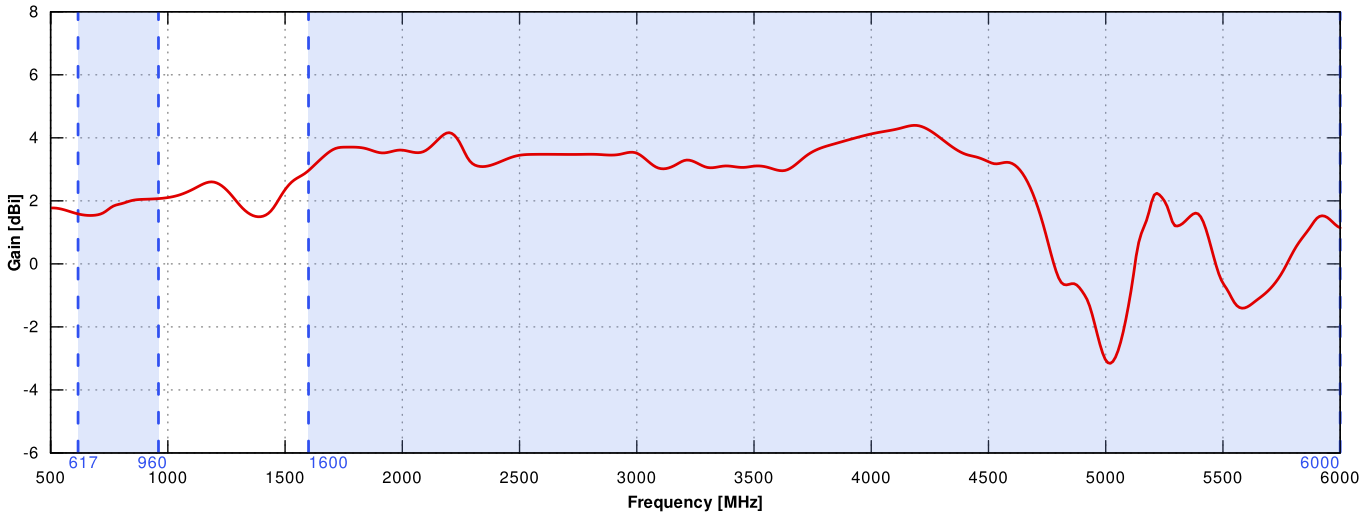
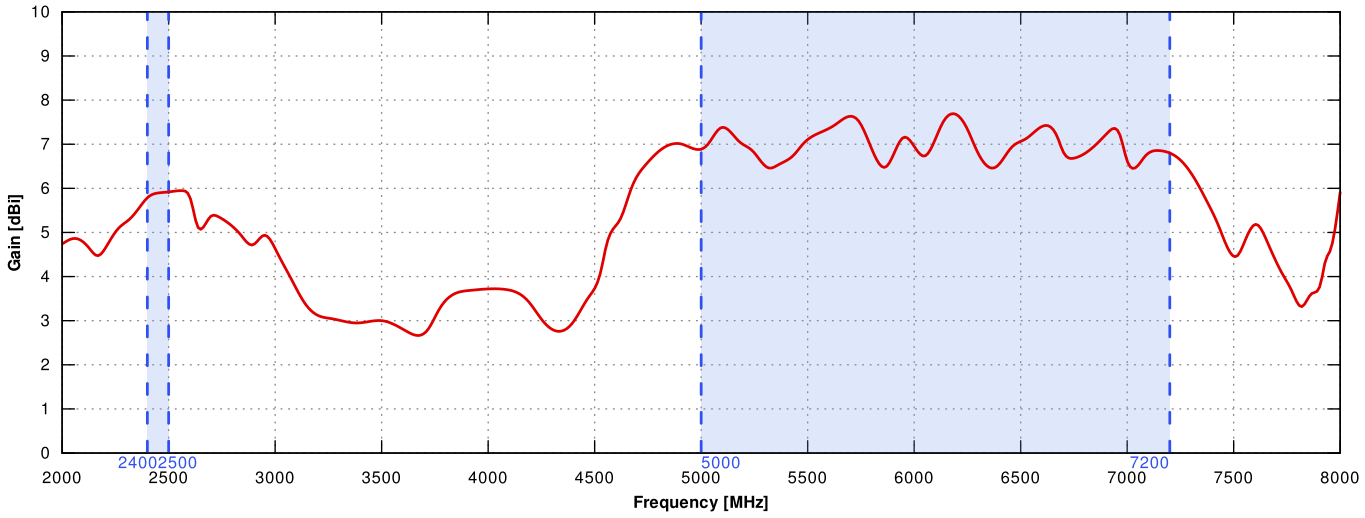
## Gain for 5G/LTE antenna




## Gain for Wi-Fi & BT antenna



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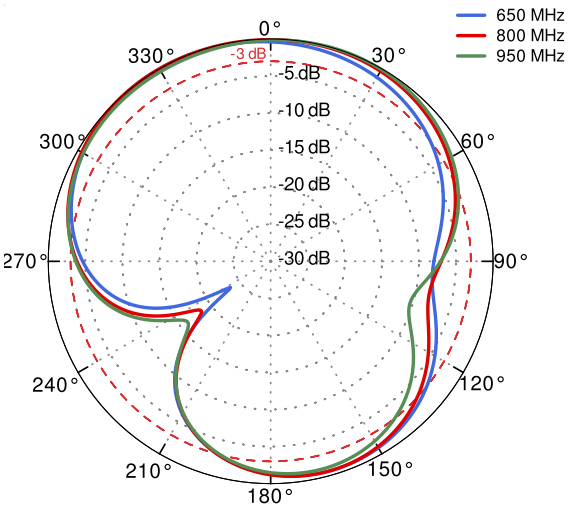
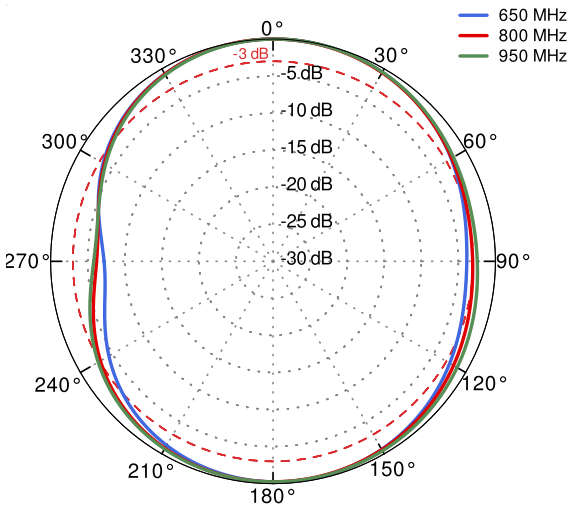
## 5G/LTE From 650MHz to 950MHz

ELEVATION

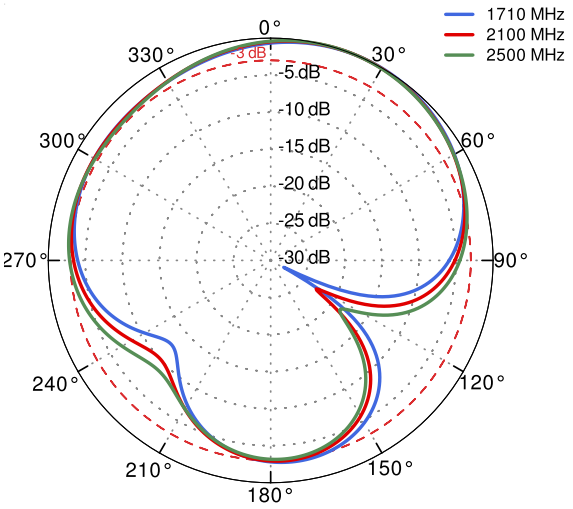



AZIMUTH




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

ELEVATION

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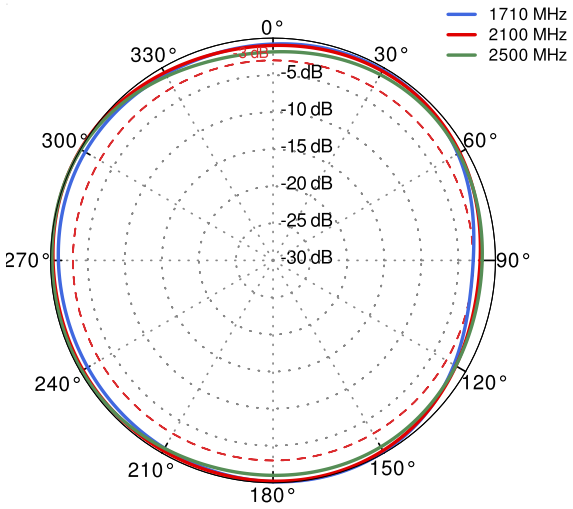



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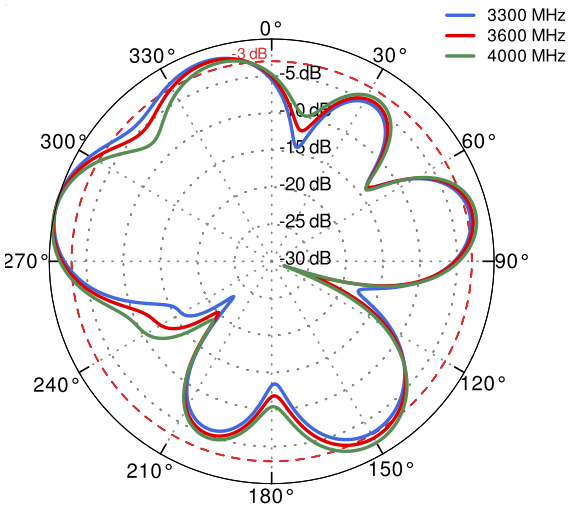
## 5G/LTE From 3300MHz to 4000MHz

ELEVATION

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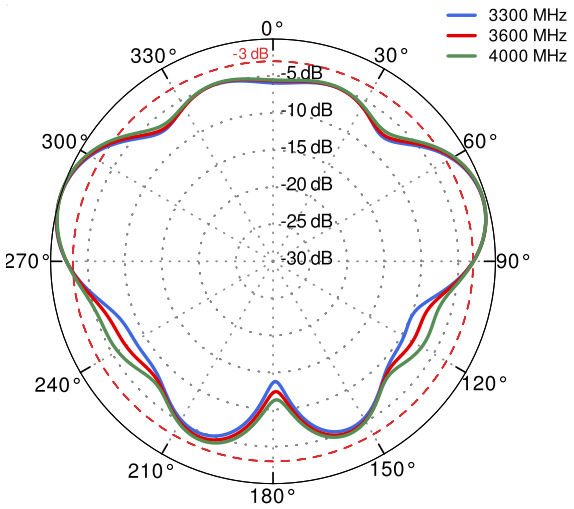
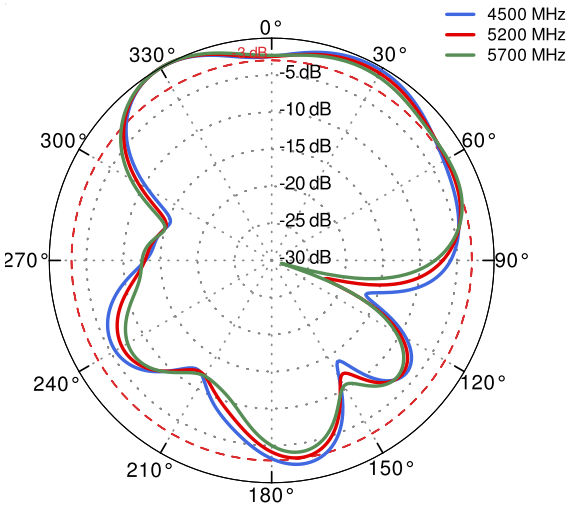



## 5G/LTE From 4500MHz to 5500MHz

ELEVATION

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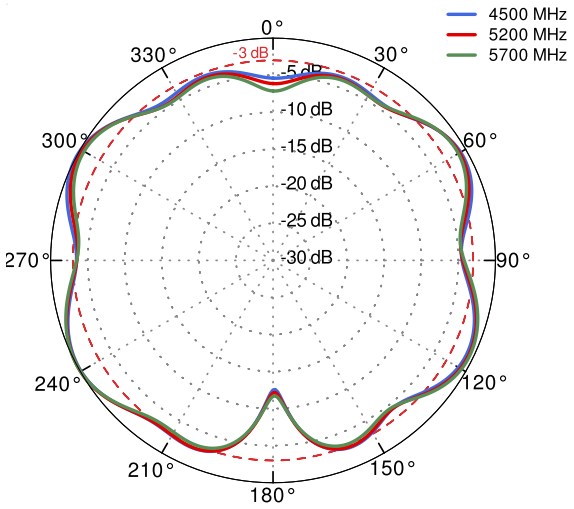



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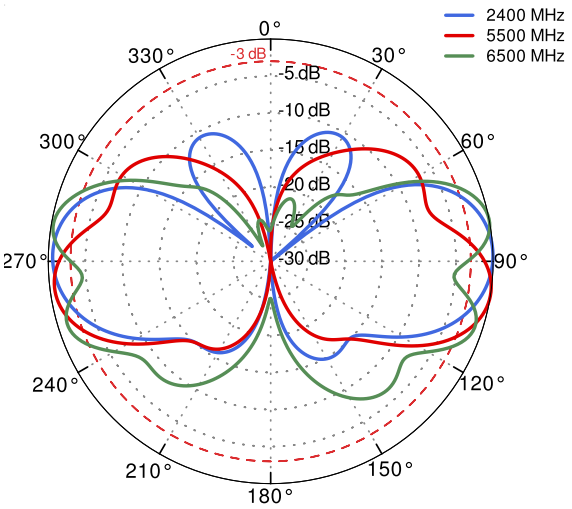
## Wi-Fi & BT 2.4 GHz and 5 GHz

ELEVATION

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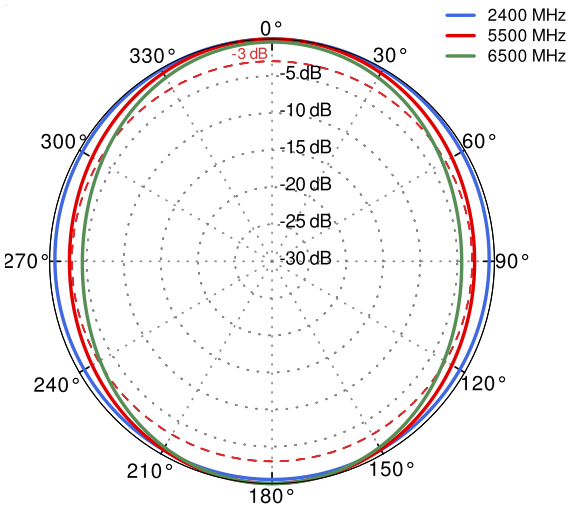
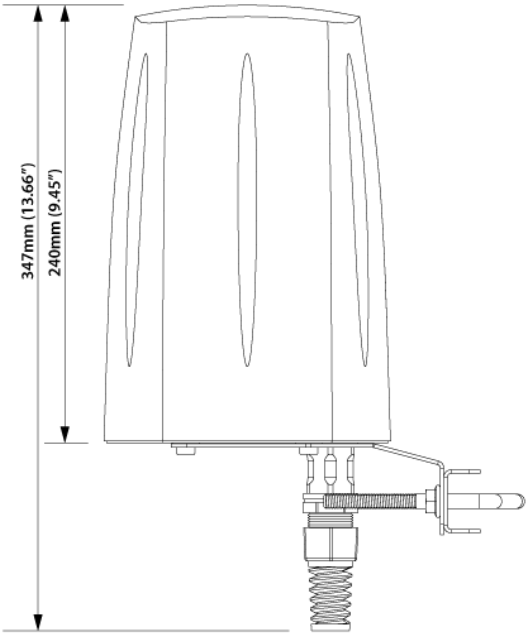
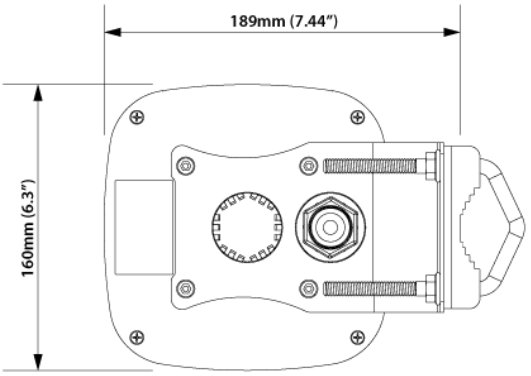



# DIMENSIONS

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