# QuCam for RUT2xx Global

**Outdoor CCTV LTE PoE gateway Global with embedded LTE router & PoE switch for CCTV cameras.**

QuCam for RUT2xx Global is a powerful outdoor industrial gateway for professional CCTV application with embedded PoE switch for up to 3x CCTV cameras and place to install Teltonika RUT200, RUT240, RUT241 or RUT260 **(not included in gateway set)**.
QuCam for RUT2xx also has integrated omnidirectional LTE and Wi-Fi antennas. The mobile router delivers high performance for mission-critical cellular communication in harsh and hazardous environments where a wide operating temperature is required. Equipped with an external SIM holder.

4G LTE | BAND 71 | WiFi DUALBAND | 600-6350MHz | 4 dBi | OMNI DIRECTIONAL | IP 68 | -40° TO +80° | 3 x POE OUT 802.3af/at | 1 x POE OUT Passive 24V | 1 x POE IN Passive 48 - 58V



# 5G/LTE ANTENNA SPECIFICATION

| | |
|---|---|
| FREQUENCY | 0.6 - 1.4 GHz<br>1.5 - 3.0 GHz<br>3.0 - 5.0 GHz<br>5.0 - 6.35 GHz |
| MAX. GAIN | 0.6 - 1.4 GHz : 2.6 dBi<br>1.5 - 3.0 GHz : 4.2 dBi<br>3.0 - 5.0 GHz : 4.4 dBi<br>5.0 - 6.35 GHz : 2.1 dBi |
| SUPPORTED LTE/5G BANDS | 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 23, 24, 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, 107, 111, 252, 253, 254, 255, 256, 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, 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, n105, n106, n250, n251, n252, n253, n254, n255, n256 |
| VSWR | <2.00, max <3.00 |
| BEAMWIDTH | 360°/25° ±5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |
| CONNECTOR | 2x SMA |
| CABLE TYPE | RG316 |


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# WI-FI ANTENNA SPECIFICATION

| | |
|---|---|
| FREQUENCY | 2.4 - 2.5 GHz<br>5.0 - 7.2 GHz |
| MAX. GAIN | 2.4 - 2.5 GHz: 6dBi<br>5 GHz: 7.5dBi<br>7 GHz: 7.5dBi |
| VSWR | < 1.50, max < 2.00 |
| BEAMWIDTH | 360°/25° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |
| CONNECTOR | 1x RPSMA |
| CABLE TYPE | RG316 |

# POE SWITCH SPECIFICATION

| | |
|---|---|
| IEEE STANDARD | IEEE 802.3ab 1000Base-T Gigabit Ethernet<br>IEEE 802.3AT PoE (Power over Ethernet) |
| POWER INPUT | Powered from Passive PoE Input 48-58V 3A<br>(Supports both PoE A mode and B mode)<br>or<br>DC Input 48-58V 3A |
| POE OUTPUT | 4x 802.3AT 30W<br>or<br>3x 802.3AT 30W + 1x Passive PoE 24V 25W |
| DATA OUT | RJ45 10/100/1000Base-T(X) |
| OPERATING TEMPERATURE | -40°C ... +70°C |


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| | |
|---|---|
| DIMENSIONS | 125mm x 60mm x 14mm |
| EN 61000-4-2 (ESD) | +/- 6V contact, +/- 8kV air |
| EN 61000-4-3 (RS) | 10V/m Cryteria A |
| EN 61000-4-4 (EFT) | +/- 1kV Cryteria A |
| EN 61000-4-8 | 30A /m |
| EN 61000-4-5 (SURGE) | 1kV |
| IEC60950-1 | YES |
| EN62368-1 | YES |

## POWER SUPPLY ELECTRICAL INPUT SPECIFICATION

| | |
|---|---|
| INPUT VOLTAGE | 110 ... 240VAC |
| INPUT FREQUENCY | 50 ... 60Hz |
| INPUT CURRENT | max. 2A RMS |
| INRUSH CURRENT | max. 30A |
| AC LEAKAGE CURRENT | max. 3.5mA |
| EFFICIENCY | min. 80% @ 100VAC, 84% @ 240VAC |
| DIELECTRIC STRENGTH (PRIMARY TO SECONDARY) | 3kVAC/5mA/1s |
| INPUT SOCKET | IEC320-C6 |
| AC POWER CORD | 1.5m length, 3 pins EU or UK plug or US plug |


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# POWER SUPPLY ELECTRICAL OUTPUT SPECIFICATION

| | |
|---|---|
| OUTPUT VOLTAGE | 56VDC |
| MIN. LOAD | 0A |
| MAX. LOAD | 1A |
| PEAK LOAD | 1.46A |
| OUTPUT POWER | 56W |
| LINE REGULATION | ± 3% |
| LOAD REGULATION | ± 5% |
| RIPPLE | 560mVpp |
| TURN ON DELAY TIME | max. 5s |
| RISE TIME | max. 40ms |
| HOLD UP TIME | min. 5ms |
| OVERSHOOT | max. 15% |
| PROTECTIONS | Short circuit, over current (110 ... 200% of DC output) |
| ETHERNET PORTS | Input (LAN): 1x RJ45 10/100/1000Mbps<br>Output (PoE): 1x RJ45 10/100/1000Mbps |
| POE MODE | mode B: pins 4,5 + / pins 7,8 - |
| LEDS | Green: Power supply is on, Orange: PoE device connected |


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# POWER SUPPLY MECHANICAL SPECIFICATION

| | |
|---|---|
| MTBF | 30,000 operating hours confidence-level at 80% load, 25°C |
| OPERATING TEMPERATURE | -10°C ... +45°C |
| STORAGE TEMPERATURE | -20°C ... +85°C |
| HUMIDITY | 5% @ 0°C, 90% @ 40°C |
| SIZE | 146.5 x 61.95 x 32.2mm ± 1mm (LxWxH) |
| SAFETY | CE: EMC/LVD / FCC Part 15 Class B/ EN55022 Class B/ EN55024 |

# MECHANICAL SPECIFICATION

| | |
|---|---|
| RADOME MATERIAL | UV-resistant ASA |
| OPERATING HUMIDITY | up to 100% RH |
| MATERIALS | aluminum, PTFE, fiberglass |
| OPERATING TEMPERATURE | -40°C ... +70°C |
| NET WEIGHT | 2,10 ± 0.2 kg<br>4.63 ± 0.44 lbs |
| DIMENSIONS | 27.0 x 27.7 x 7.7 ± 1.0 cm<br>10.63 x 10.63 x 3.03 ± 0.39 inch |
| INGRESS PROTECTION | IP68 |
| ENCLOSURE RECOMMENDED TIGHTENING TORQUE | 0.6 - 0.8 Nm |

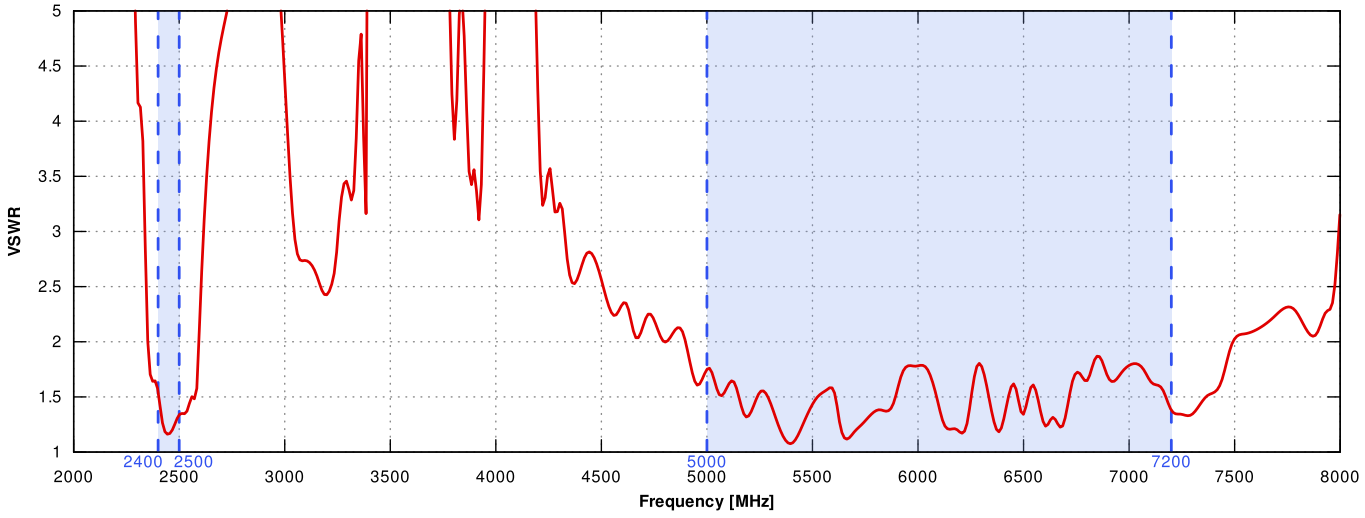

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# MOUNTING KIT

| | |
|---|---|
| DIMENSIONS | 9.9 x 10.5 x 14.8 ± 0.5 cm<br>3.9 x 4.13 x 5.83 ± 0.19 inch |
| REGULATION RANGE | +/- 30° |
| MAST DIAMETER RANGE | 25 - 66mm<br>0.98-2.60 inch |
| MATERIAL | Polyamide with fiberglass + galvanized steel U-Bolts |
| MOUNTING PLACE | Wall or ceiling or mast |

# PLOTS

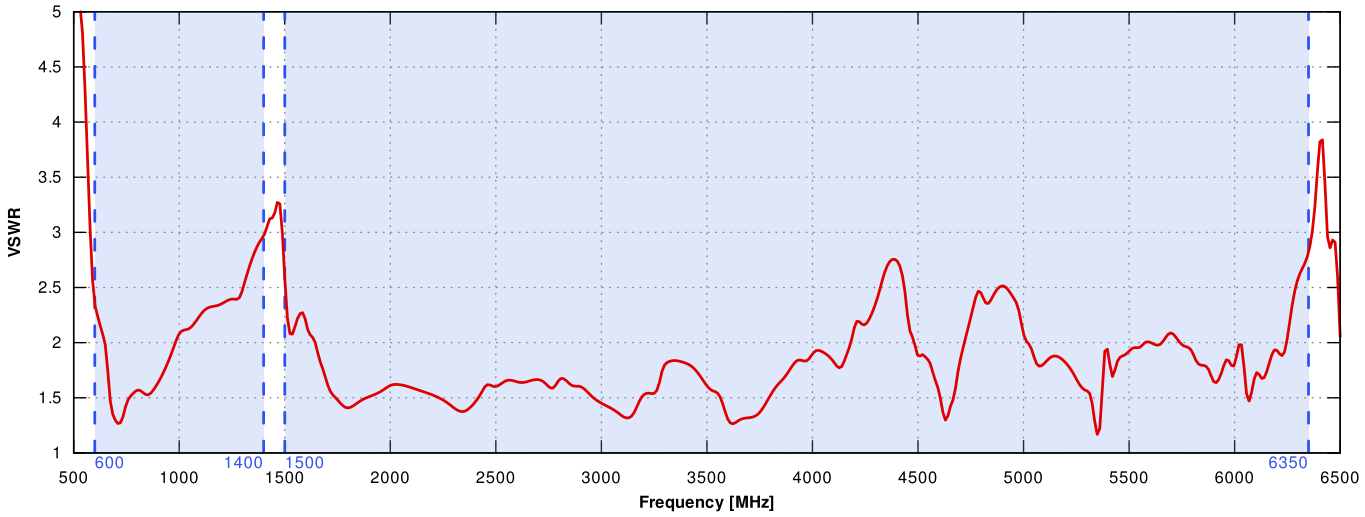
## VSWR FOR WI-FI ANTENNA



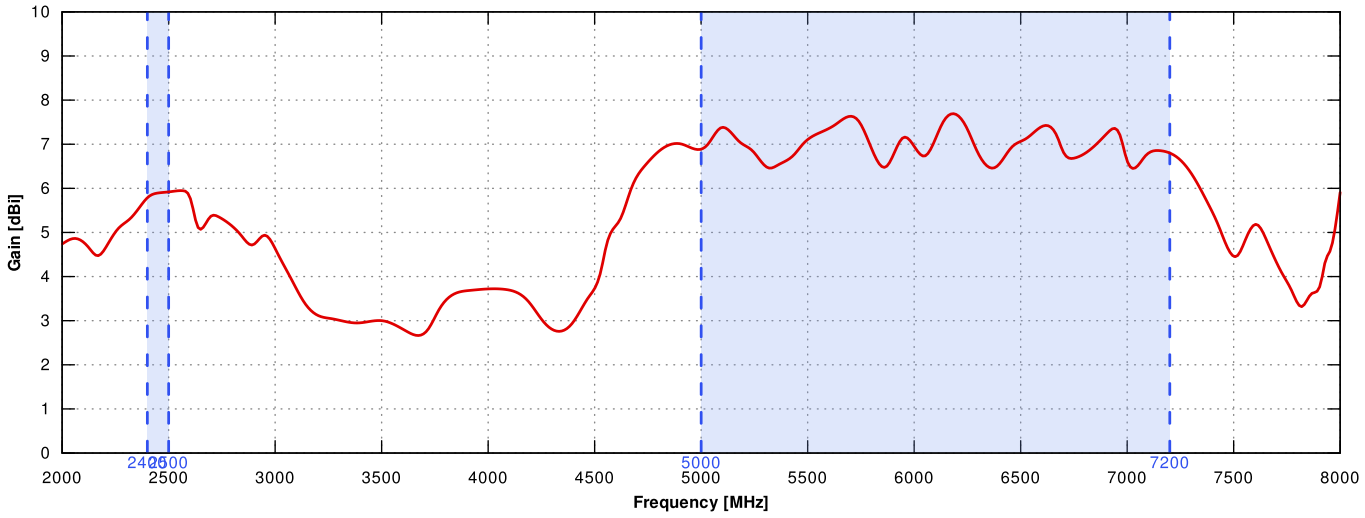



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## VSWR FOR 5G/LTE ANTENNA



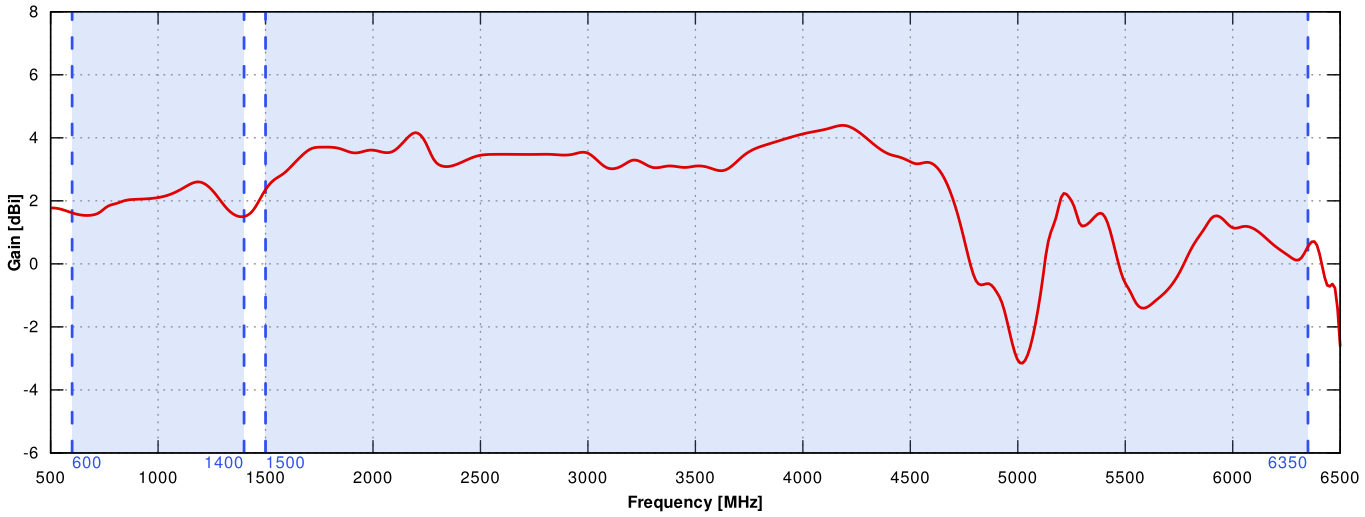

## GAIN FOR WI-FI ANTENNA





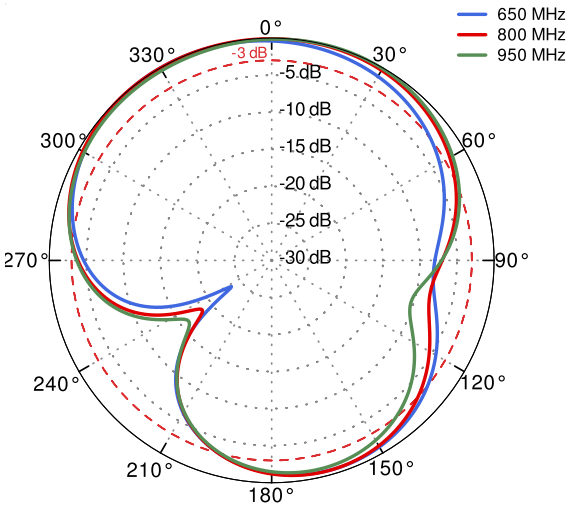
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## GAIN FOR 5G/LTE ANTENNA

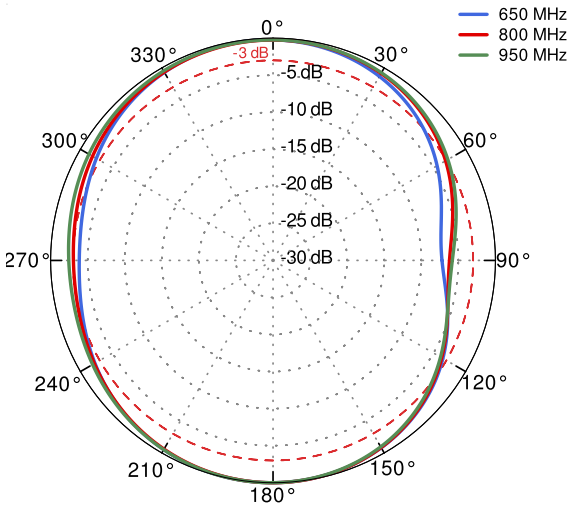



## 5G/LTE from 650MHz to 950MHz

ELEVATION




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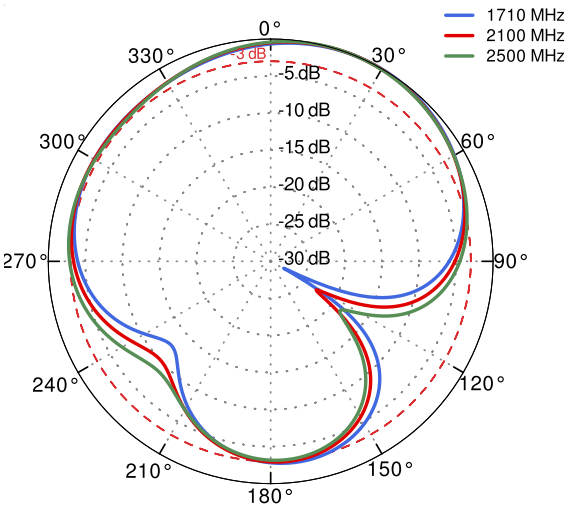




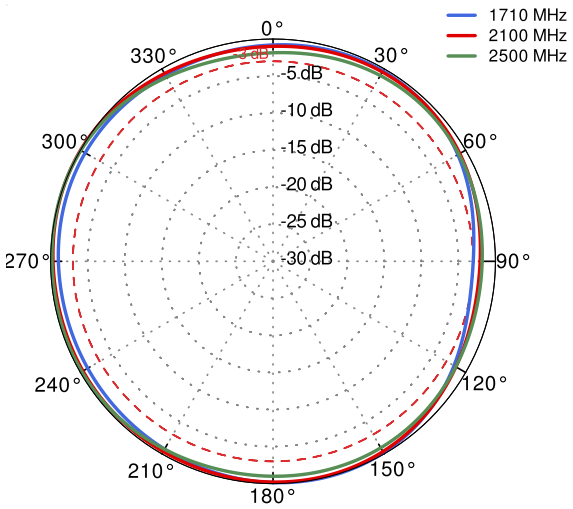

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## 5G/LTE from 1.71GHz to 2.5GHz

ELEVATION

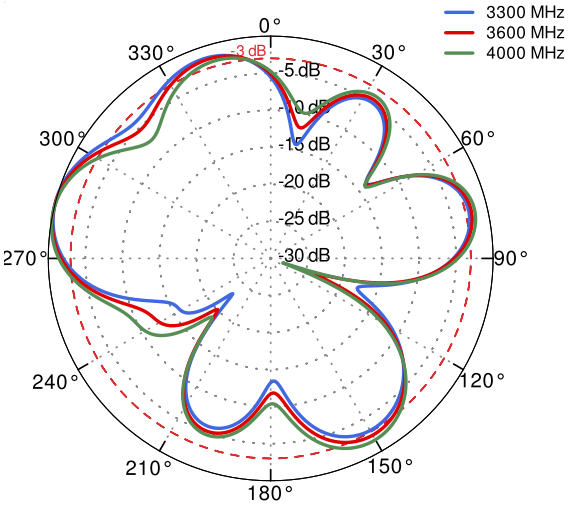



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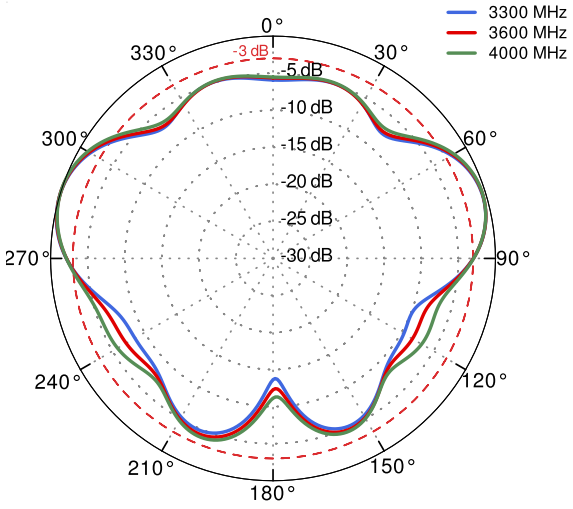



## 5G/LTE from 3.3GHz to 4.0GHz

ELEVATION




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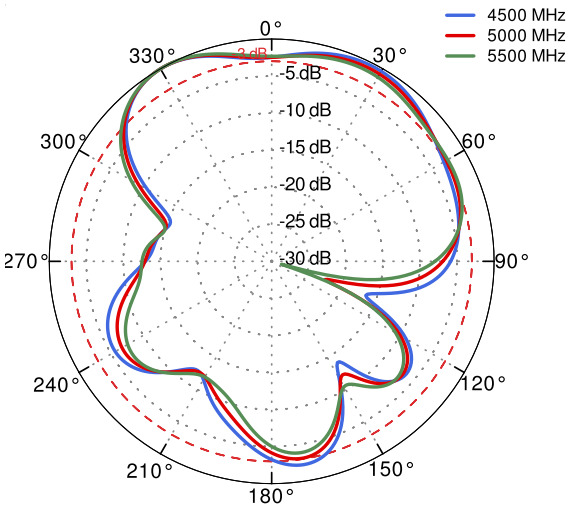




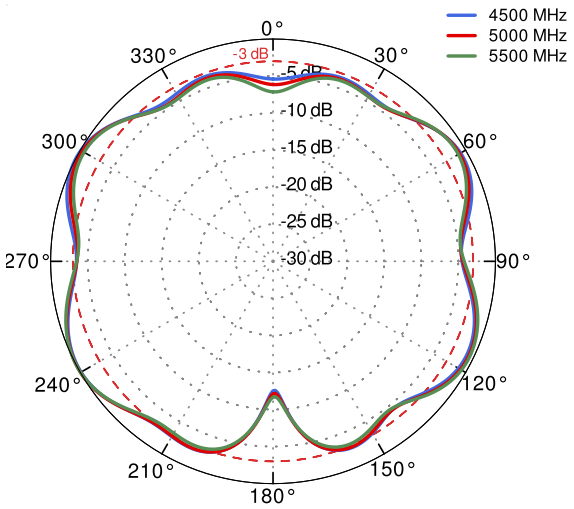
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## 5G/LTE from 4.5GHz to 5.5GHz

ELEVATION

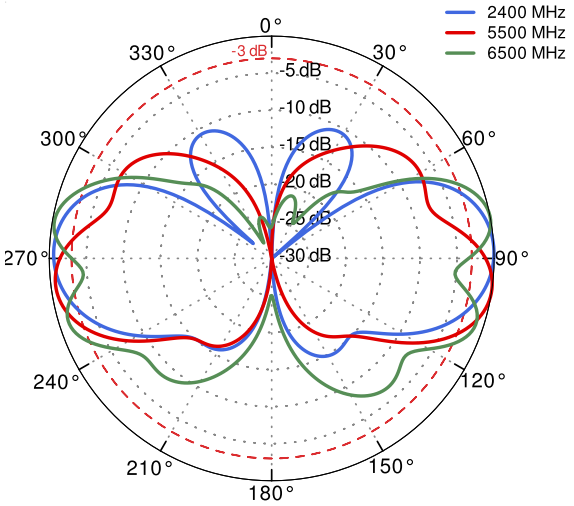



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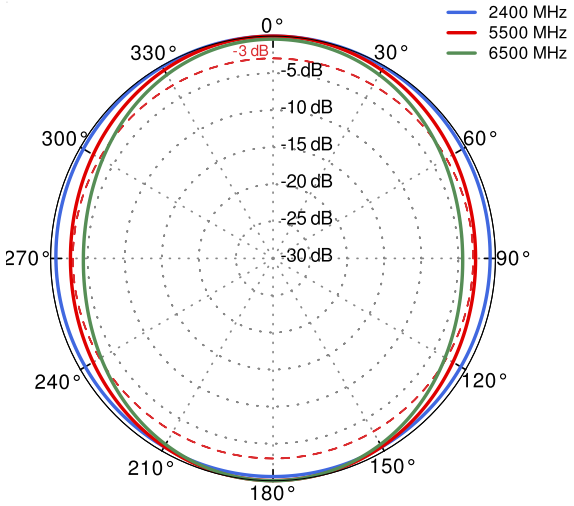



## Wi-Fi 2.4GHz to 6.5GHz

ELEVATION



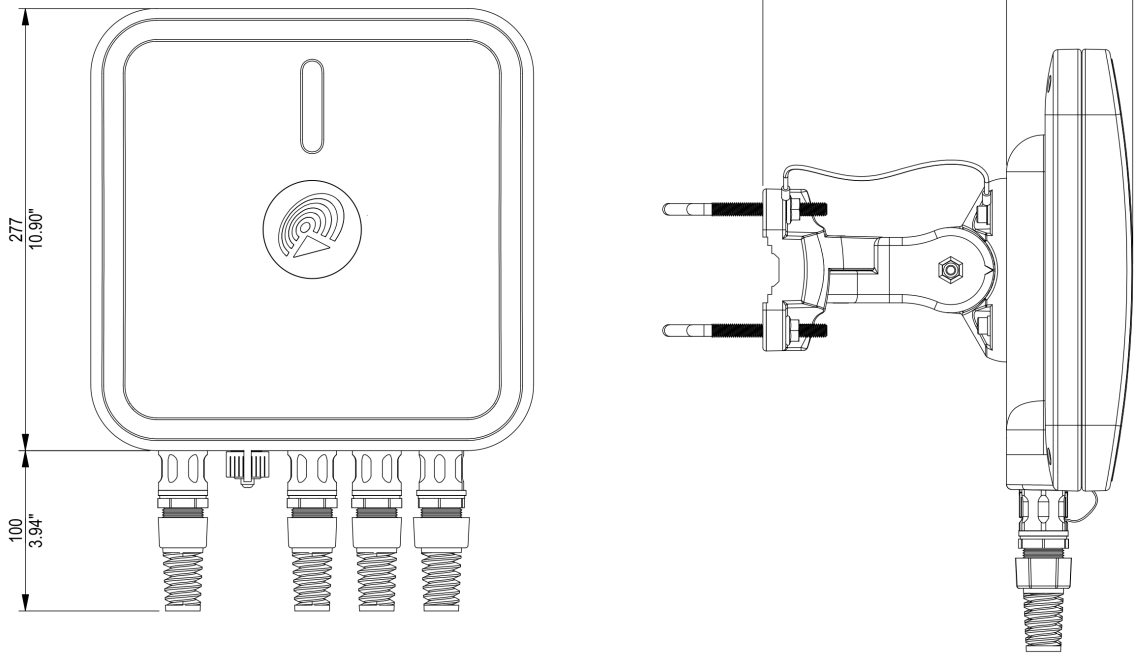

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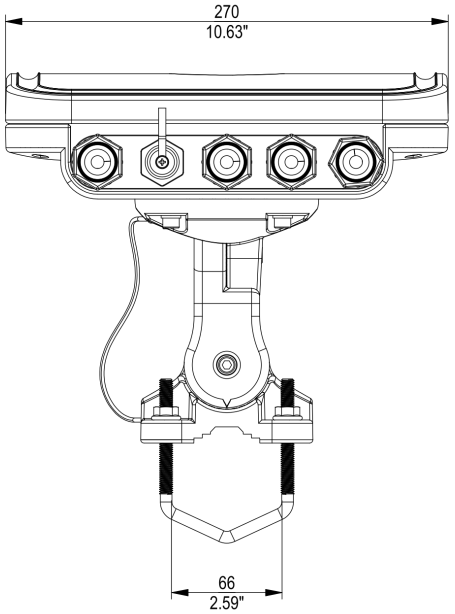





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# DIMENSIONS




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