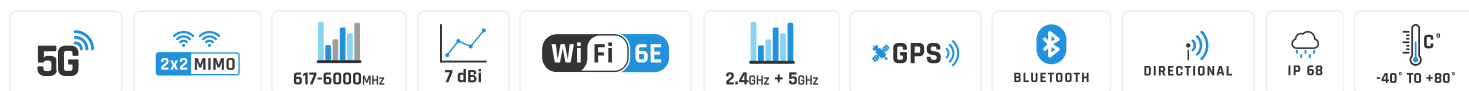


Thunder Integrated Directional for Ericsson R920

INTEGRATED MULTI-BAND 5G DIRECTIONAL ANTENNA + WI-FI 6E OMNI ANTENNA + BLUETOOTH ANTENNA + GPS ANTENNA + PLACE TO INSTALL ERICSSON R920 (ALL-IN-ONE)

Thunder Integrated Directional antenna for Ericsson R920 router is a perfect outdoor device for improving the signal in rural/suburban and locations where the mobile signal is weak. It has embedded directional 5G, omni Wi-Fi, Bluetooth and GPS antenna. If you use R920 with Thunder Integrated Directional antenna, you get an integrated complete solution with embedded router and multi band antennas in one enclosure.



OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP68



MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION



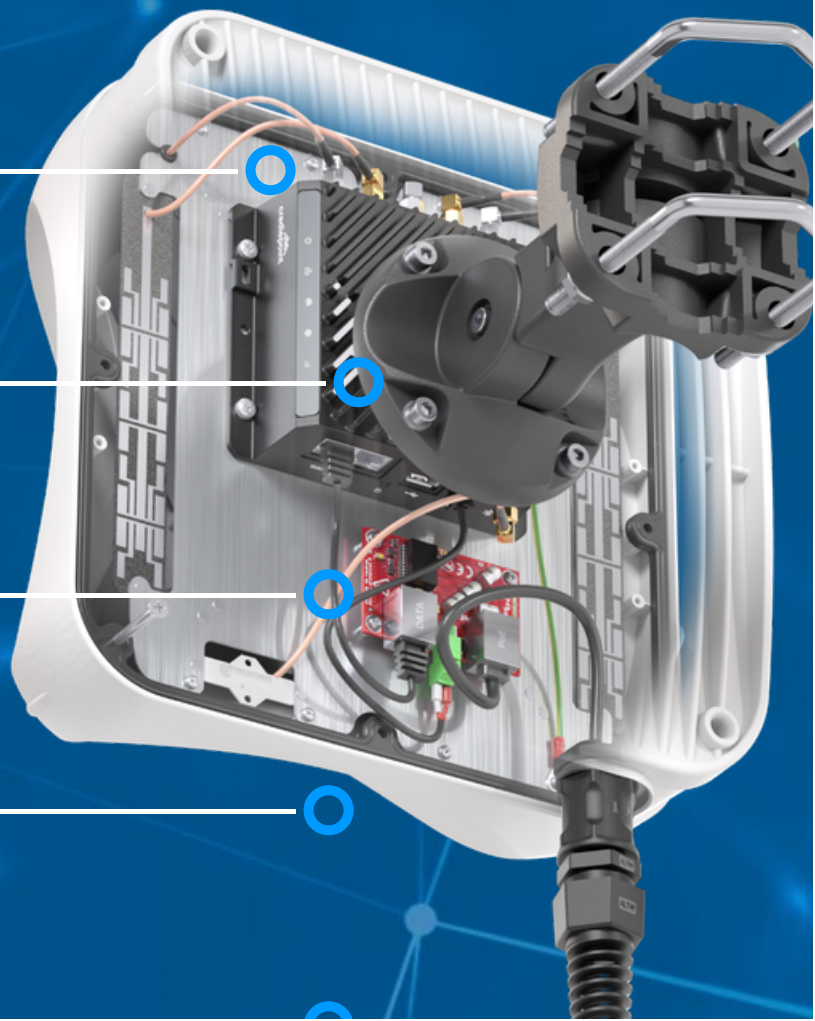
WIDE BAND 600-6000MHZ, 5G TECHNOLOGY



ANTENNA PERFECTLY MATCHED WITH THE ERICSSON R920



ALL ANTENNAS AND ERICSSON ROUTER INTEGRATED IN ONE ENCLOSURE



5G / LTE ANTENNA SPECIFICATION

| | |
|---------------------|--|
| FREQUENCY | 617 - 960 MHz 1.7 - 2.7 GHz 3.3 - 4.6 GHz 4.7 - 6.0 GHz |
| GAIN | 617 - 960 MHz : 6 dBi 1.7 - 2.7 GHz : 7 dBi 3.3 - 4.6 GHz : 7 dBi 4.7 - 6.0 GHz : 5.5dBi |
| SUPPORTED LTE BANDS | 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, 46, 47, 48, 49, 52, 53, 65, 66, 67, 68, 69, 71, 85, 103, 106 |
| 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, n65, n66, n67, n71, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256 |
| VSWR | <2.00, max <3.00 |
| BEAMWIDTH | 80°/80° ±15° |
| POLARIZATION | X (±45degrees) |
| IMPEDANCE | 50 Ω |
| CONNECTOR | 2x SMA |
| CABLE TYPE | RG316 |

WI-FI ANTENNA SPECIFICATION

| | |
|--------------|---|
| FREQUENCY | 2.4 - 2.5 GHz 5.0 - 7.2 GHz |
| GAIN | 2.4 - 2.5 GHz: 6dBi 5 GHz: 7.5dBi 7 GHz: 7.5dBi |
| VSWR | < 1.50, max < 2.00 |
| BEAMWIDTH | 360°/25° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |
| CONNECTOR | 2x 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 |



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

MECHANICAL SPECIFICATION

| | |
|-----------------------|--|
| MATERIALS | ABS, aluminum, PTFE, fiberglass |
| CONNECTOR TYPE | RJ45 |
| INGRESS PROTECTION | IP68 |
| DIMENSIONS | 26.9 x 26.95 x 17.7 cm 10.6 x 10.6 x 7 inch |
| WEIGHT | 2.8 kg 6.17 lbs |
| OPERATING TEMPERATURE | From -40°C to 80°C From -40°F to 176°F |
| MAST DIAMETER | 25-60mm 0.98-2.36 inch |

FREQUENCY BANDS

LTE / 4G

| | | | | | | | | |
|------------|-----|----|----|----|----|----|-----|-------------|
| 617 MHz | 1 | 2 | 3 | 4 | 5 | 7 | 8 | 6000 MHz |
| | 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 | |
| | 46 | 47 | 48 | 49 | 52 | 53 | 65 | |
| | 66 | 67 | 68 | 69 | 71 | 85 | 103 | |
| | 106 | | | | | | | |

5G

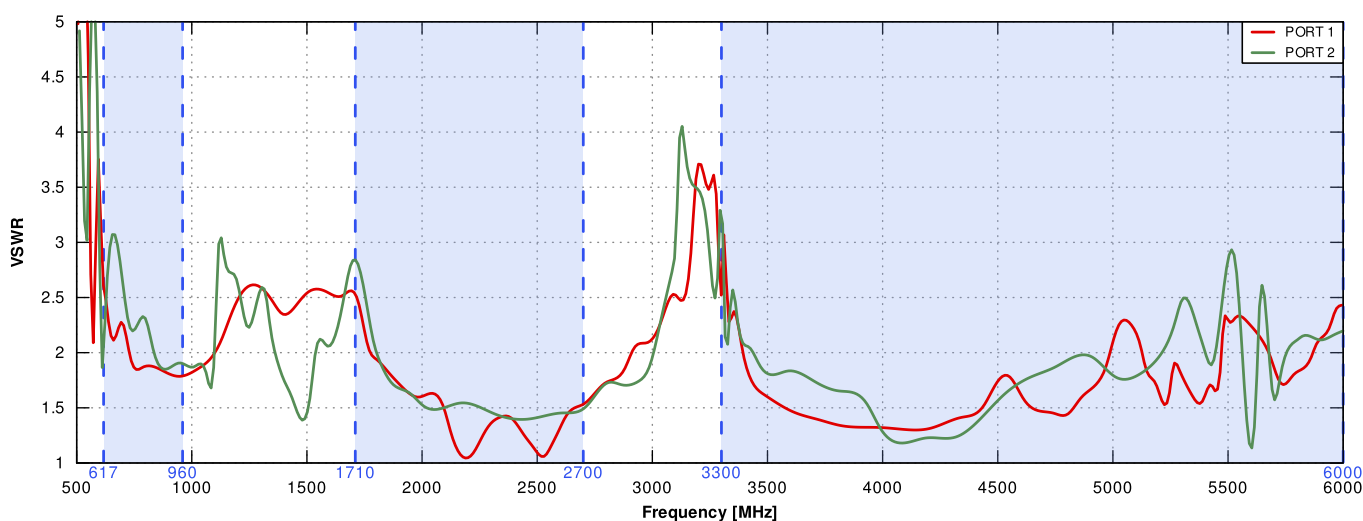
| | | | | | | | | |
|------------|-----|-----|------|------|------|-----|-----|-------------|
| 617 MHz | n1 | n2 | n3 | n5 | n7 | n8 | n12 | 6000 MHz |
| | n13 | n14 | n18 | n20 | n25 | n26 | n28 | |
| | n29 | n30 | n34 | n38 | n39 | n40 | n41 | |
| | n46 | n47 | n48 | n53 | n65 | n66 | n67 | |
| | n71 | n77 | n78 | n79 | n80 | n81 | n82 | |
| | n83 | n84 | n85 | n86 | n89 | n90 | n95 | |
| | n97 | n98 | n100 | n101 | n255 | | | |
| | | | | | | | | |

COMPATIBLE ROUTERS

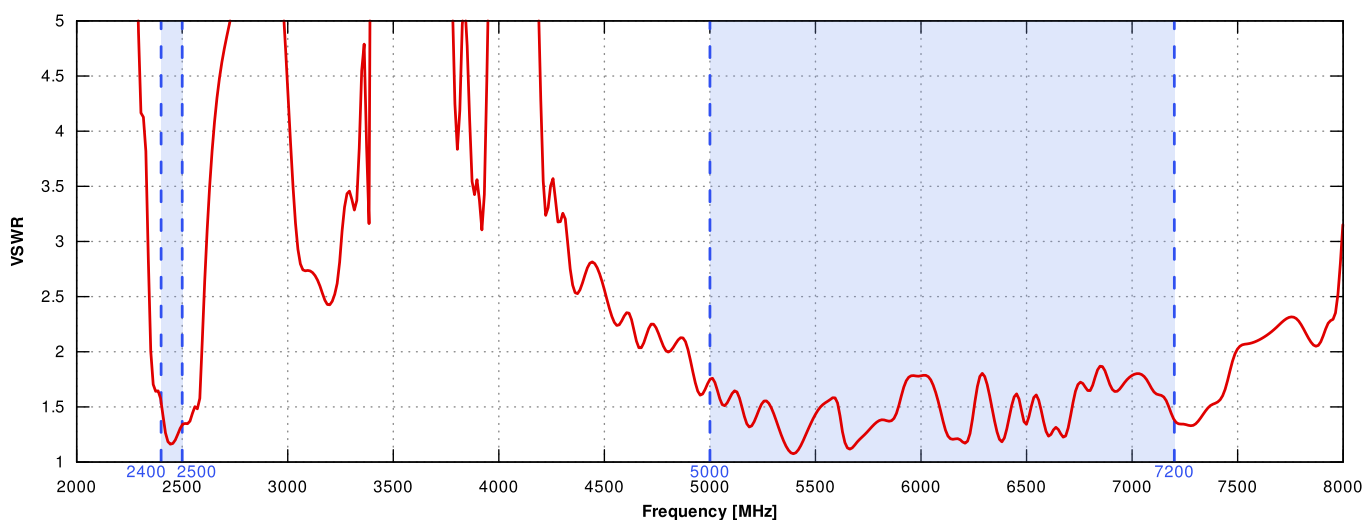
VARIANT: ACP920M

PLOTS

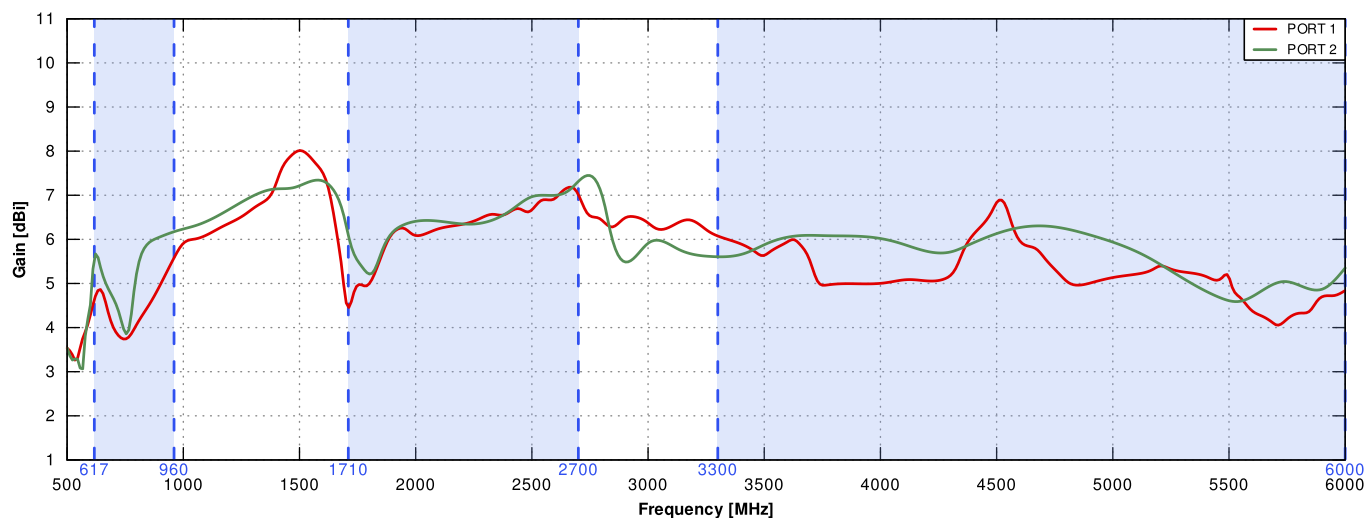
LTE VSWR



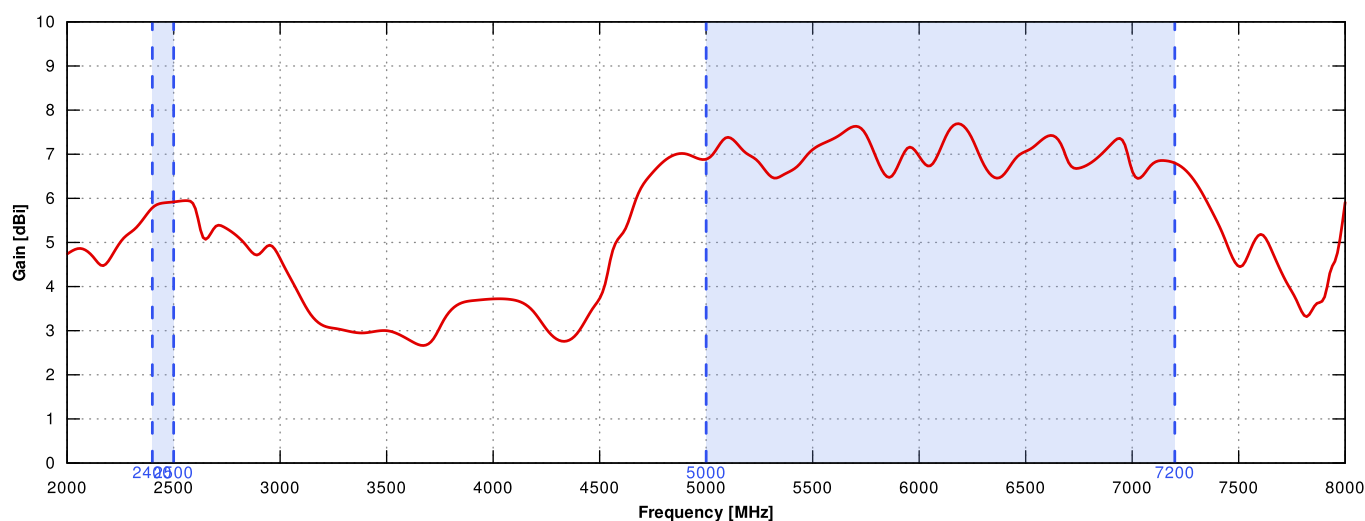
WI-FI VSWR



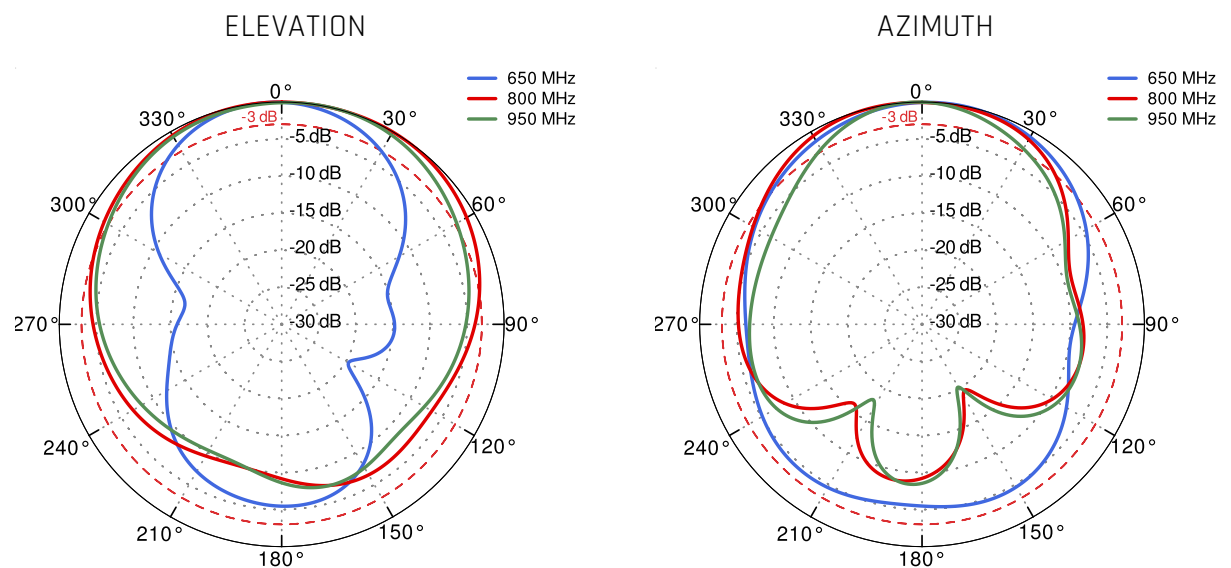
LTE Gain



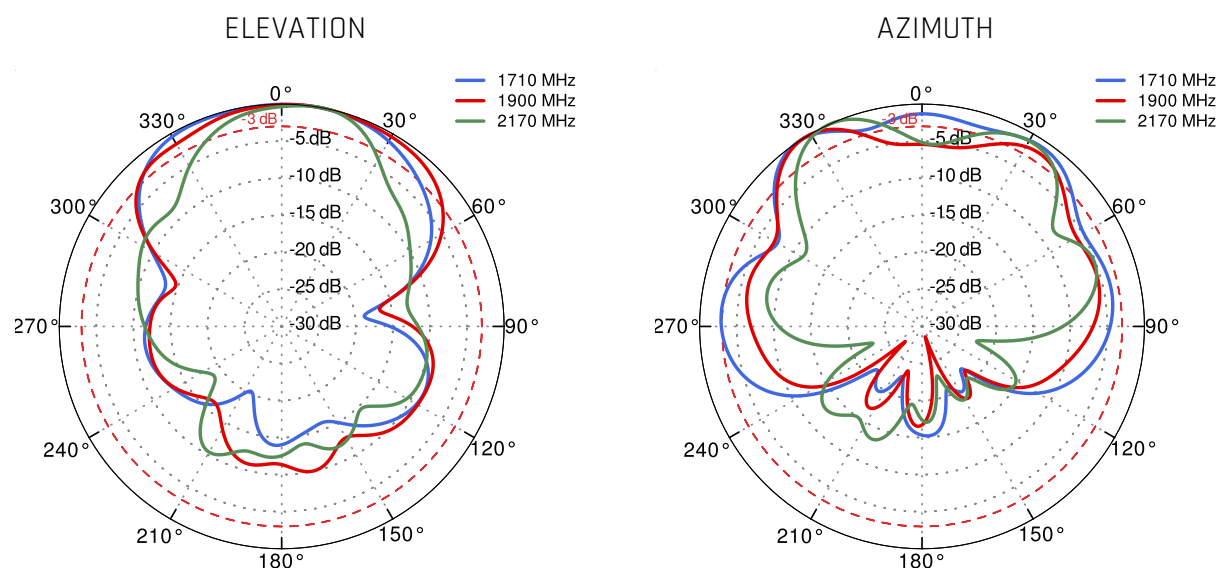
WI-FI Gain



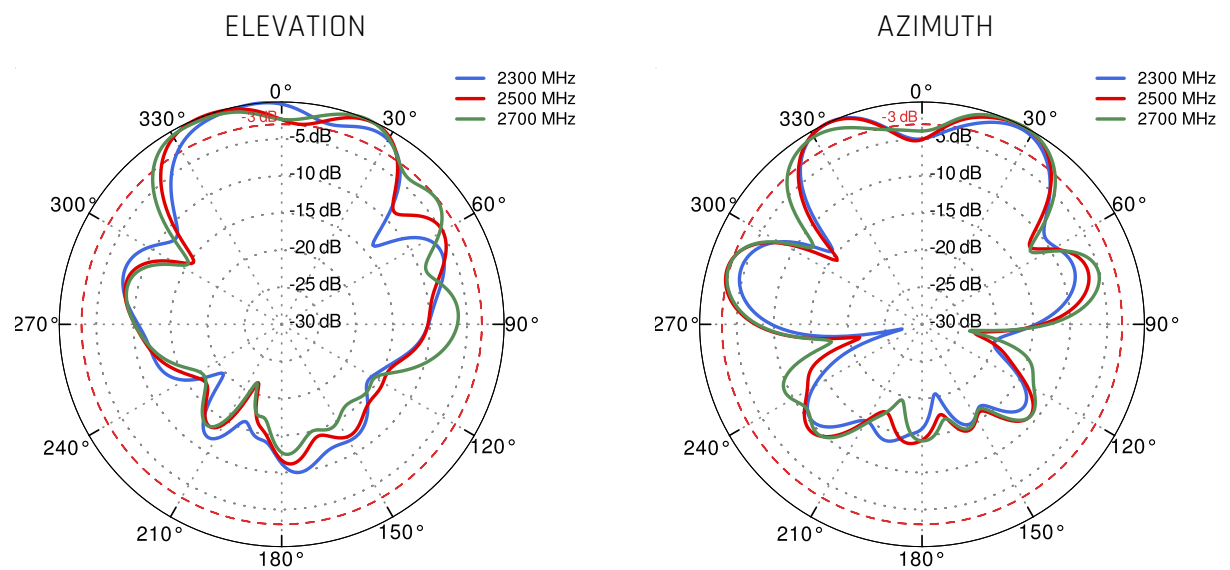
PORT 1 - 5G/LTE from 650MHz to 950MHz



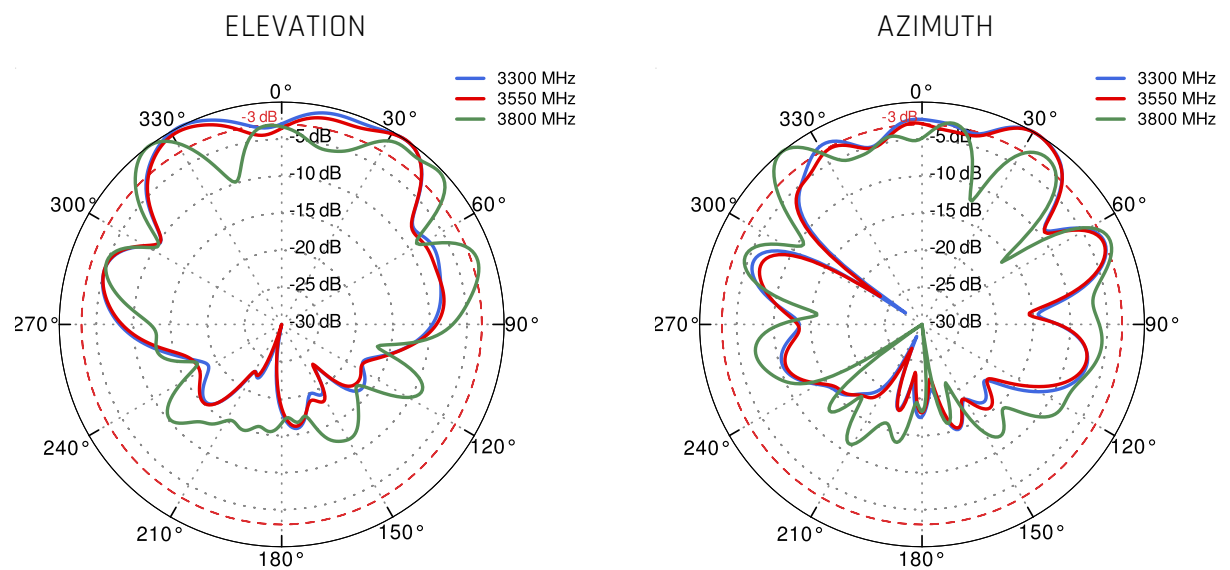
PORT 1 - 5G/LTE from 1.71GHz to 2.17GHz



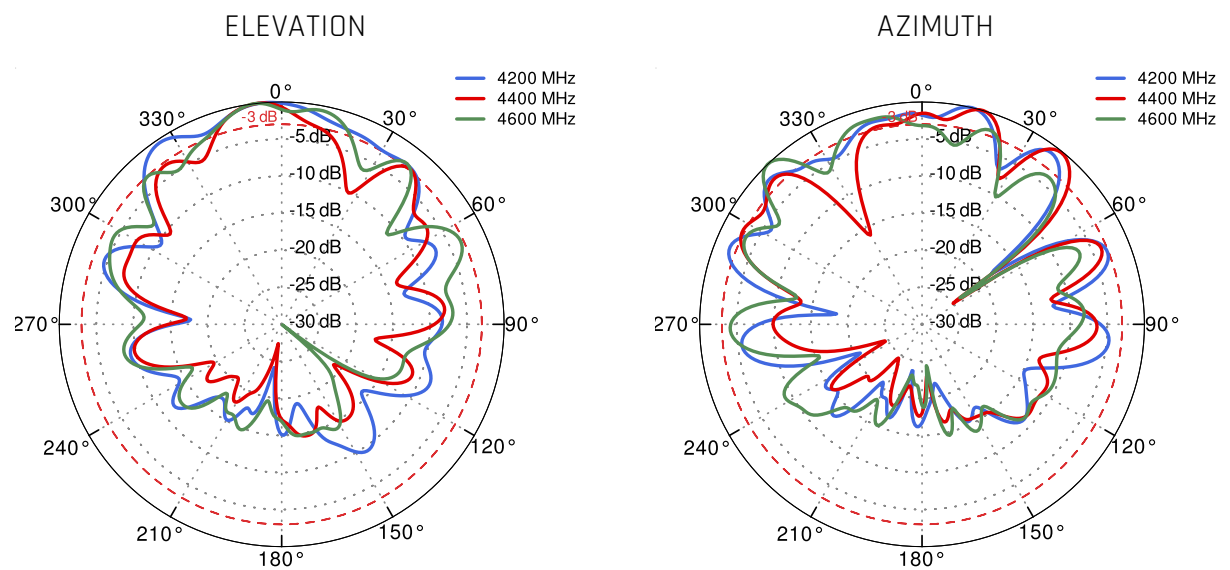
PORT 1 - 5G/LTE from 2.3GHz to 2.7GHz



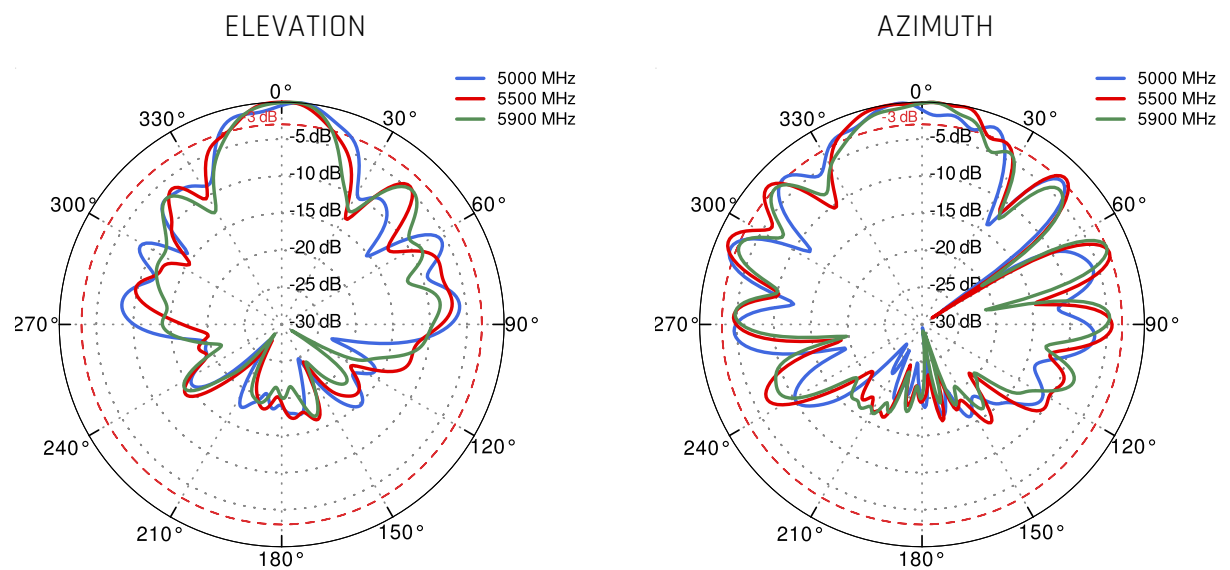
PORT 1 - 5G/LTE from 3.3GHz to 3.8GHz



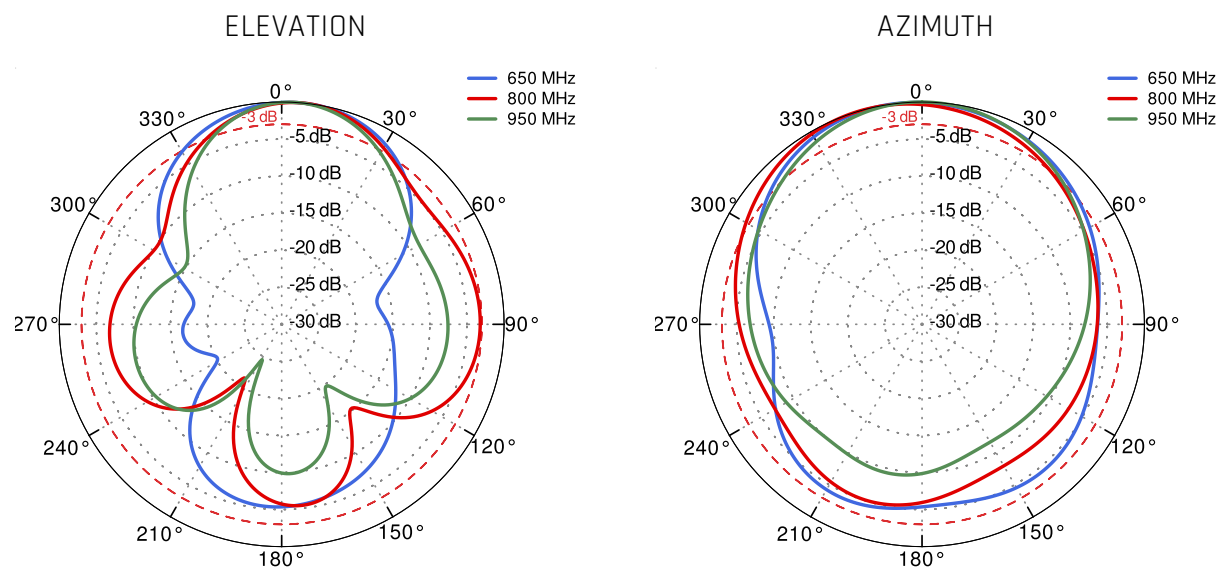
PORT 1 - 5G/LTE from 4.2GHz to 4.6GHz



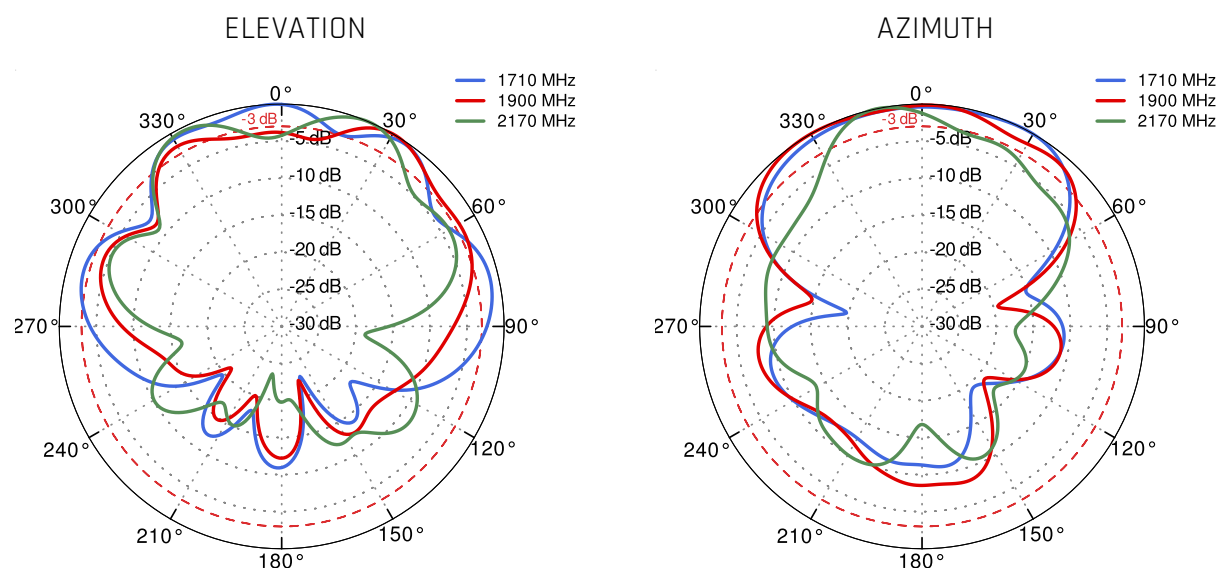
PORT 1 - 5G/LTE from 5.0GHz to 5.9GHz



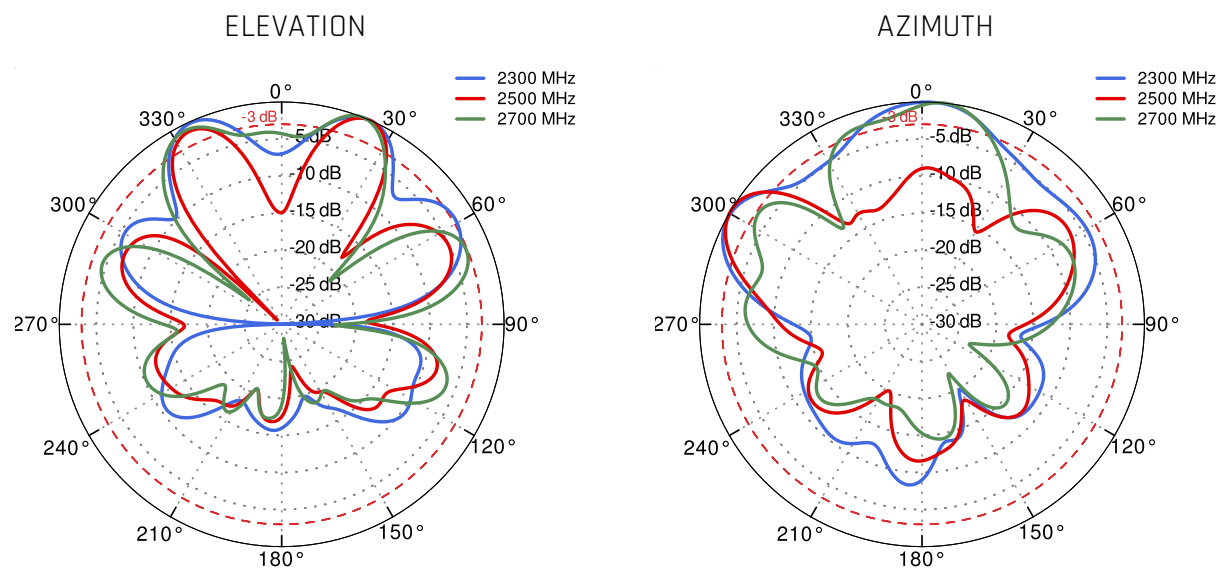
PORT 2 - 5G/LTE from 650MHz to 950MHz



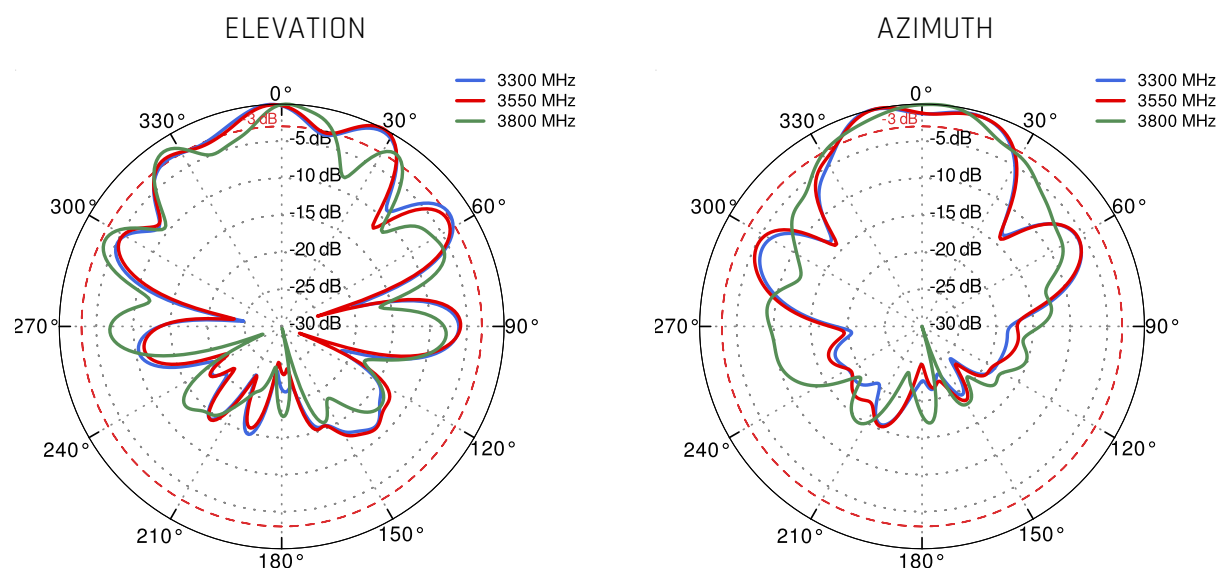
PORT 2 - 5G/LTE from 1.71GHz to 2.17GHz



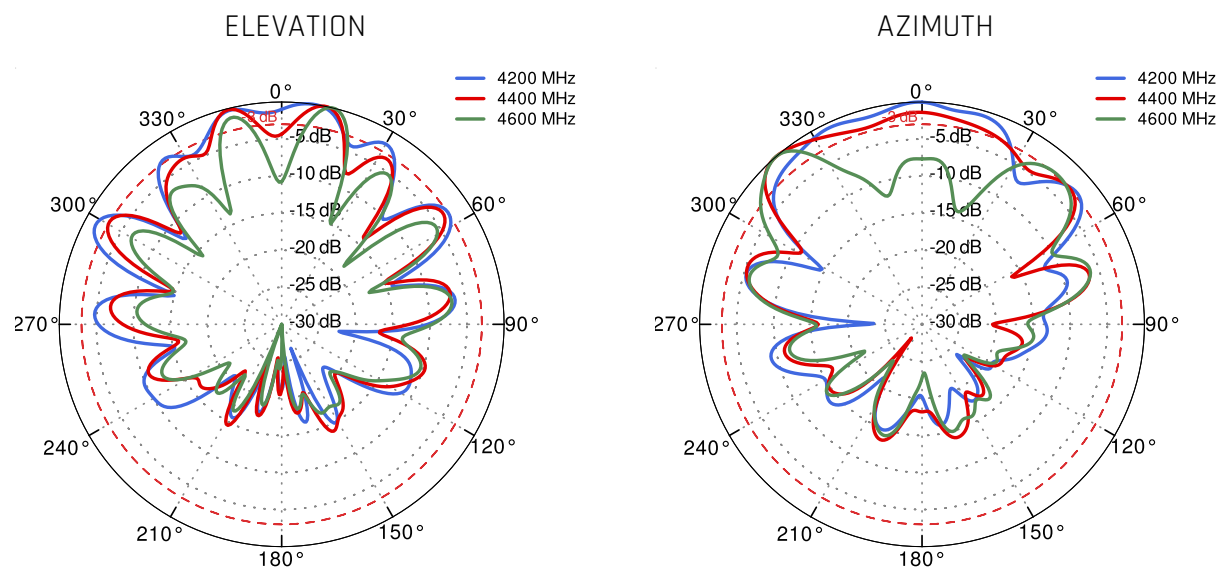
PORT 2 - 5G/LTE from 2.3GHz to 2.7GHz



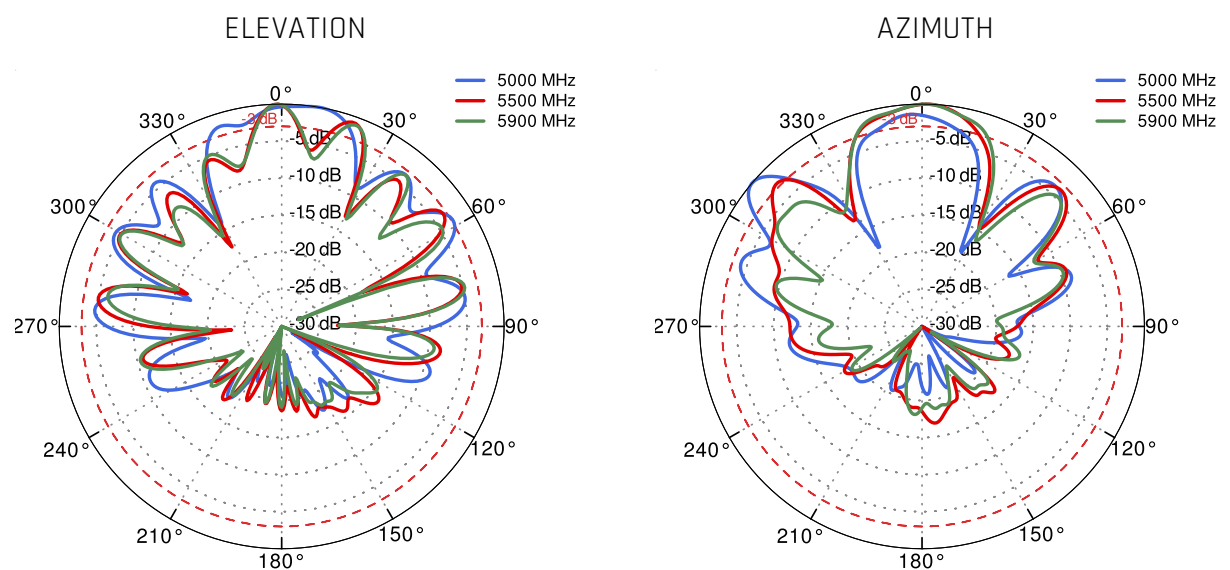
PORT 2 - 5G/LTE from 3.3GHz to 3.8GHz



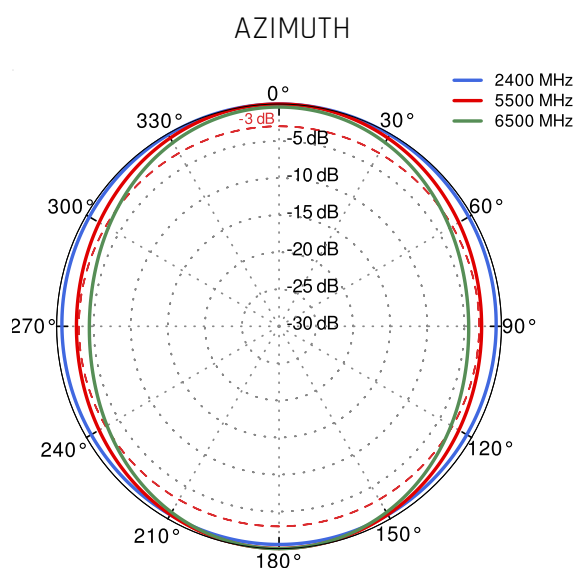
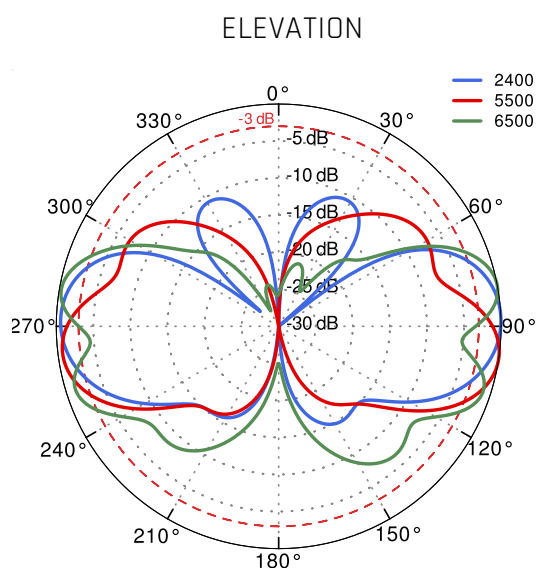
PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz



PORT 2 - 5G/LTE from 5.0GHz to 5.9GHz



Wi-Fi From 2.4 GHz to 6.5 GHz



DIMENSIONS

