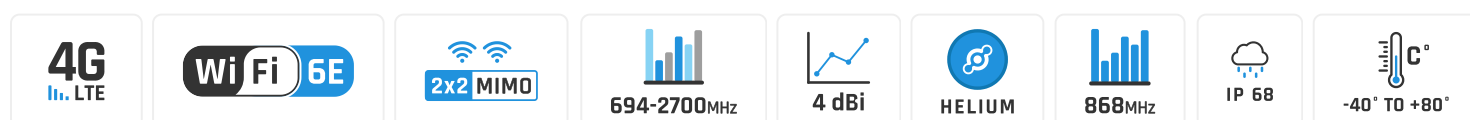


QuMax for Robustel R1520-LG

INTEGRATED LORA ANTENNA + WIFI OMNI ANTENNA + MULTI-BAND LTE OMNI ANTENNA + PLACE TO INSTALL ROBUSTEL R1520-LG (ALL-IN-ONE)

QuMax all-in-one antenna for Robustel R1520-LG router is the perfect choice for extending the reach and reliability of your Long Range (LoRa) wireless communication networks. It has embedded omni LTE, omni Wi-Fi and LoRa antenna. If you use R1520-LG with QuMax antenna, you get an integrated complete solution with embedded gateway and multi band antennas in one enclosure.



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



MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION



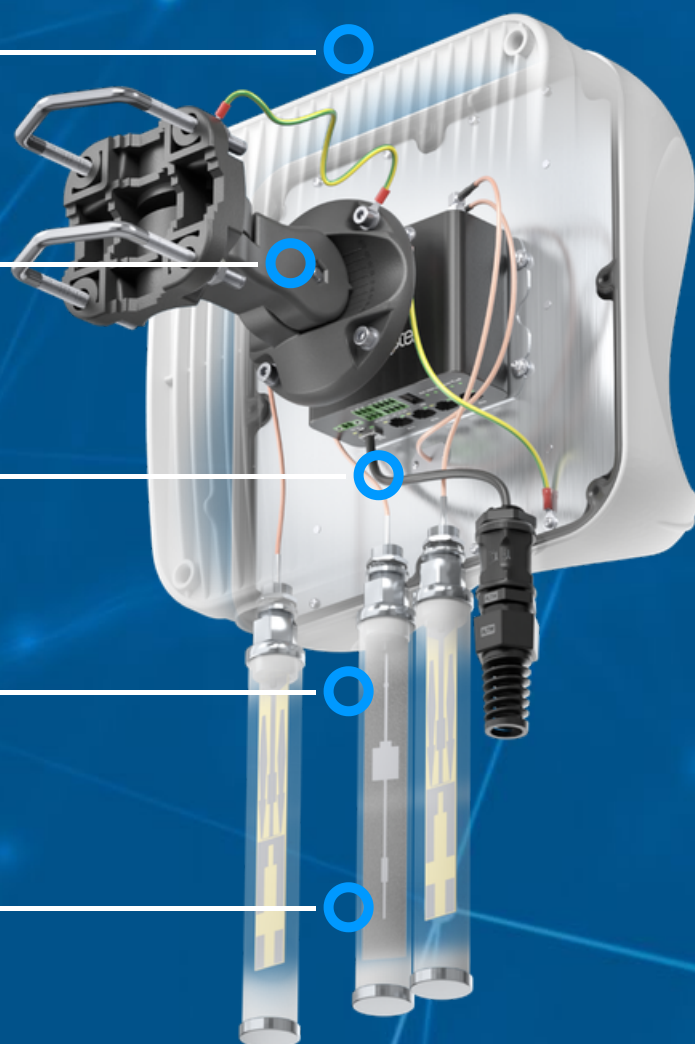
ANTENNA PERFECTLY MATCHED WITH THE ROBUSTEL R1520-LG



ALL ANTENNAS AND ROBUSTEL ROUTER INTEGRATED IN ONE ENCLOSURE



MADE IN **EUROPE**



LORA ANTENNA SPECIFICATION

| | |
|---------------|-------------------------------|
| FREQUENCY | 868 MHz (EU868, IN865, RU864) |
| GAIN | 8.5 dBi |
| VSWR | <1.80, max <2.00 |
| BEAMWIDTH | 75°/75° ±10° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |
| FRONT TO BACK | >17 dB |

LTE ANTENNA SPECIFICATION

| | |
|------------------------|--|
| FREQUENCY | 694 - 960 MHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz |
| GAIN | 694 - 960 MHz : 2 dBi 1.7 - 2.2 GHz : 2 dBi 2.2 - 2.7 GHz : 3 dBi |
| SUPPORTED LTE/5G BANDS | 1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 25, 26, 27, 28, 29, 33, 34, 35, 36, 37, 38, 39, 44, 65, 66, 67, 68, 69, 85, 103, n80, n81, n82, n83, n84, n86, n89, n95, n98, n100, n101, n256 |
| VSWR | <1.50, max <2.50 |
| BEAMWIDTH | 360°/25° ±5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |

WI-FI ANTENNA SPECIFICATION

| | |
|--------------|--|
| FREQUENCY | 2.4 - 2.5 GHz 5.0 - 7.125 GHz |
| GAIN | 2.40 - 2.50 GHz : 6 dBi 5.0 - 7.125 GHz : 7.5 dBi |
| VSWR | <1.70, max <2.00 |
| BEAMWIDTH | 360°/25° +/- 5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |

MECHANICAL SPECIFICATION

| | |
|--|---|
| MATERIALS | ABS, aluminum, PTFE |
| CONNECTOR TYPE | RJ45 |
| INGRESS PROTECTION | IP68 |
| DIMENSIONS | 160 x 160 x 240 mm 6.3 x 6.3 x 9.45 inch |
| WEIGHT | 1.5 kg 3.31 lbs |
| OPERATING TEMPERATURE | From -40°C to 80°C From -40°F to 176°F |
| ENCLOSURE RECOMMENDED TIGHTENING TORQUE | 0.6 - 0.8 Nm |
| MAST DIAMETER | 25-66mm 0.98-2.60 inch |

FREQUENCY BANDS

LTE / 4G GSM

| | | | | | | | | |
|---------|-----|----|----|----|-----|-----|-----|---------|
| | 5 | 6 | 8 | 12 | 13 | 14 | 17 | |
| 617 MHz | 18 | 19 | 20 | 26 | 27 | 28 | 29 | 960 MHz |
| | 44 | 67 | 68 | 85 | n81 | n82 | n83 | |
| | n89 | | | | | | | |

LTE / 4G UMTS

| | | | | | | | | |
|----------|----|-----|-----|-----|-----|----|----|----------|
| | 1 | 2 | 3 | 4 | 9 | 10 | 25 | |
| 1710 MHz | 33 | 34 | 35 | 36 | 37 | 39 | 59 | 2170 MHz |
| | 62 | n80 | n84 | n86 | n95 | | | |

LTE / 4G WCS DARS

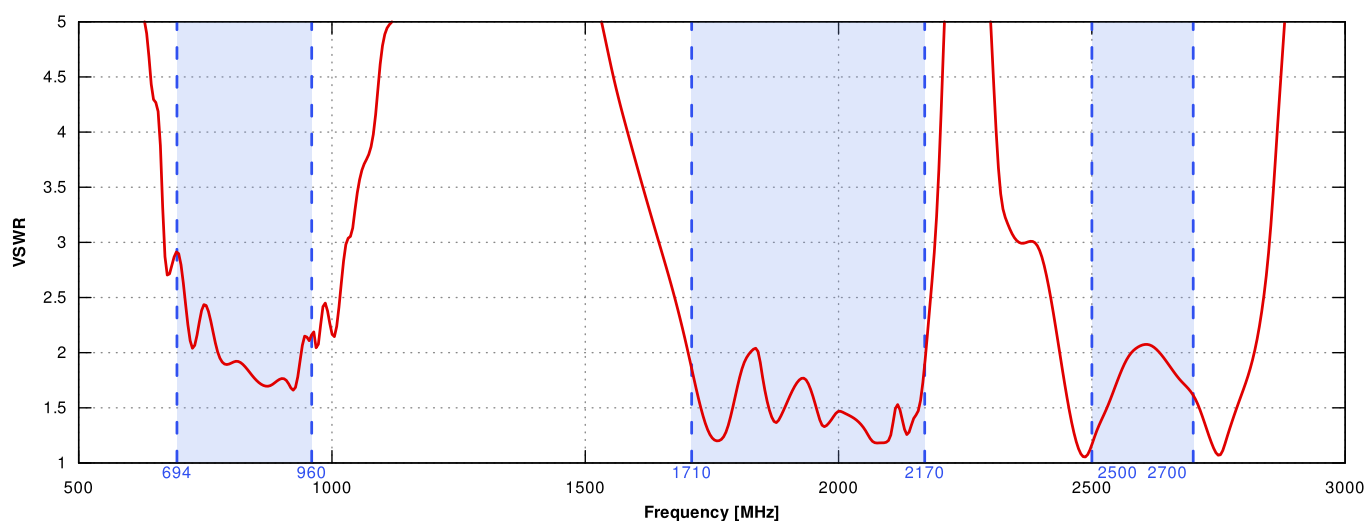
| | | | | | | | | |
|----------|----|----|--|--|--|--|--|----------|
| 2300 MHz | 30 | 40 | | | | | | 2400 MHz |
|----------|----|----|--|--|--|--|--|----------|

LTE / 4G

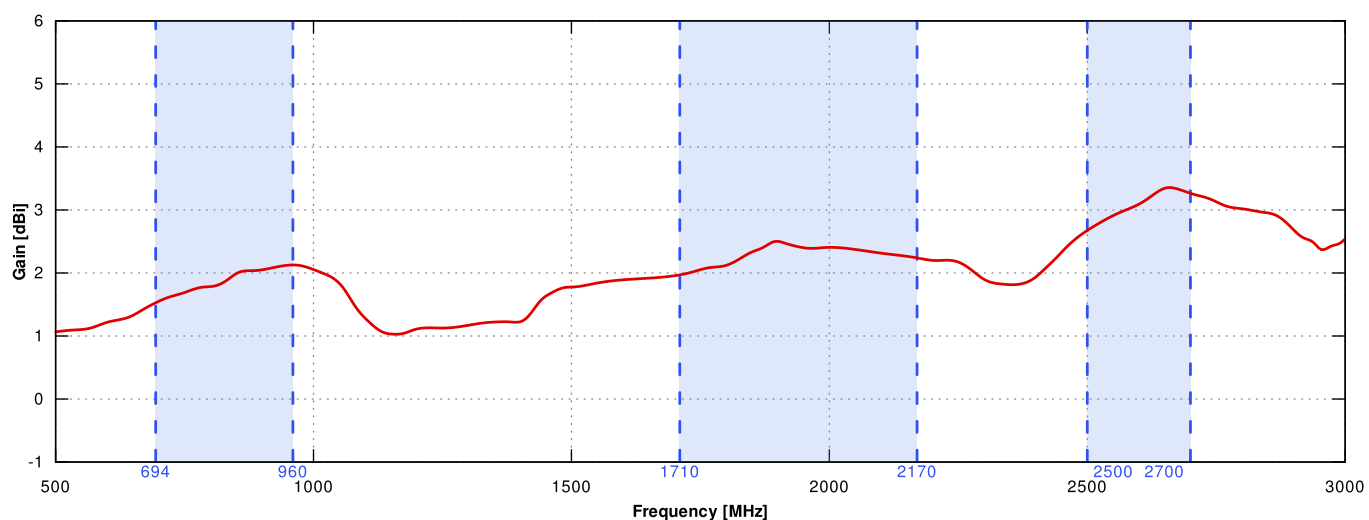
| | | | | | | | | |
|----------|---|----|----|----|----|-----|--|----------|
| 2400 MHz | 7 | 38 | 41 | 53 | 69 | n90 | | 2700 MHz |
|----------|---|----|----|----|----|-----|--|----------|

PLOTS

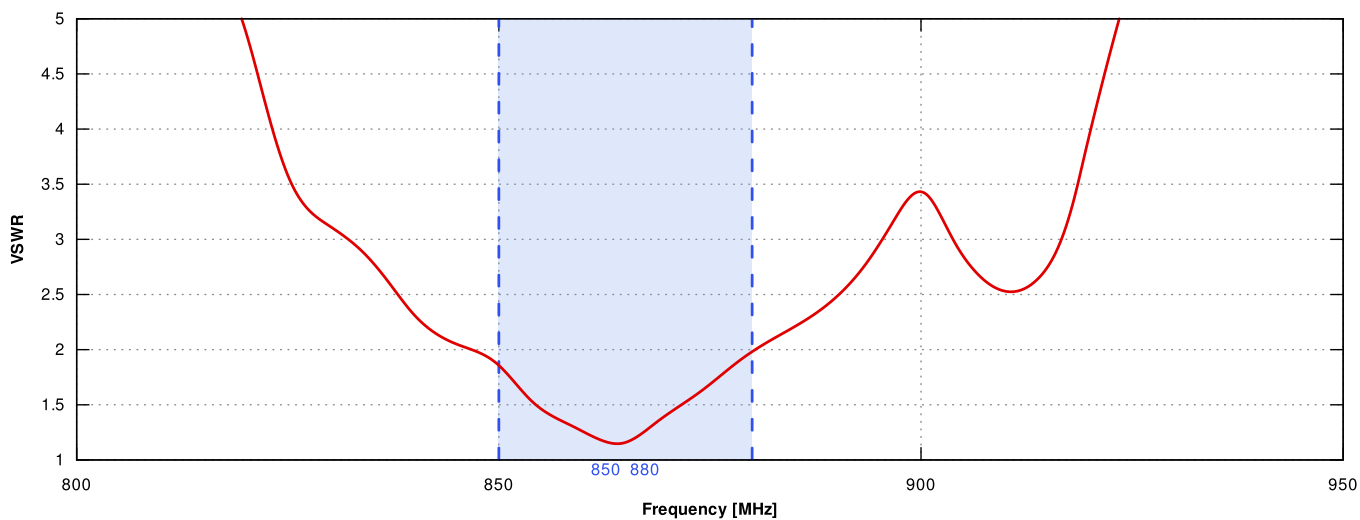
LTE VSWR



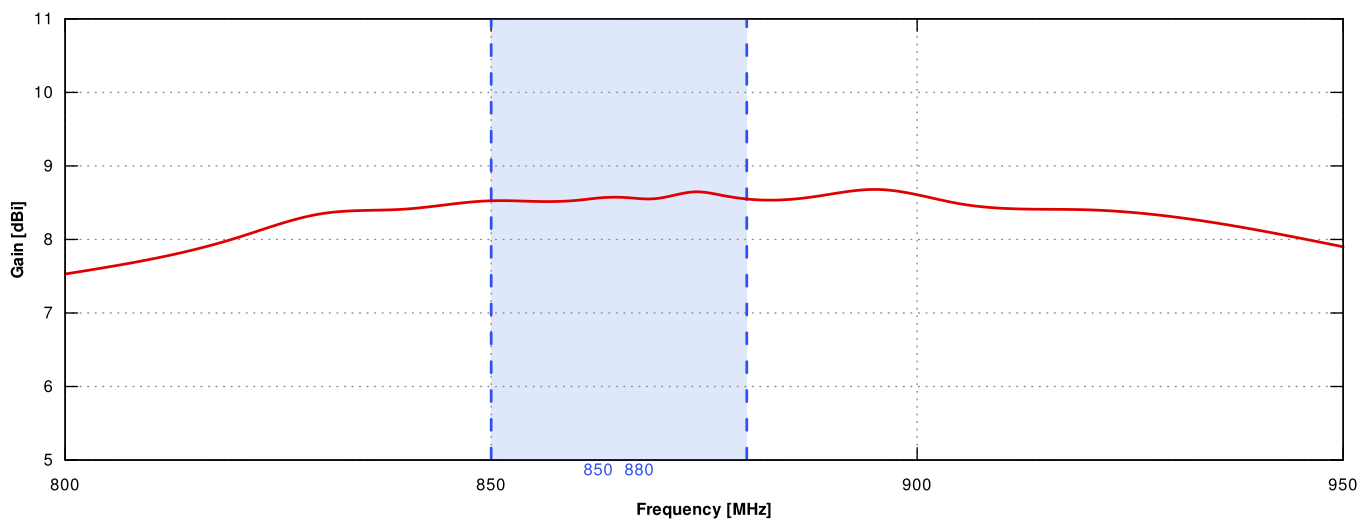
LTE Gain



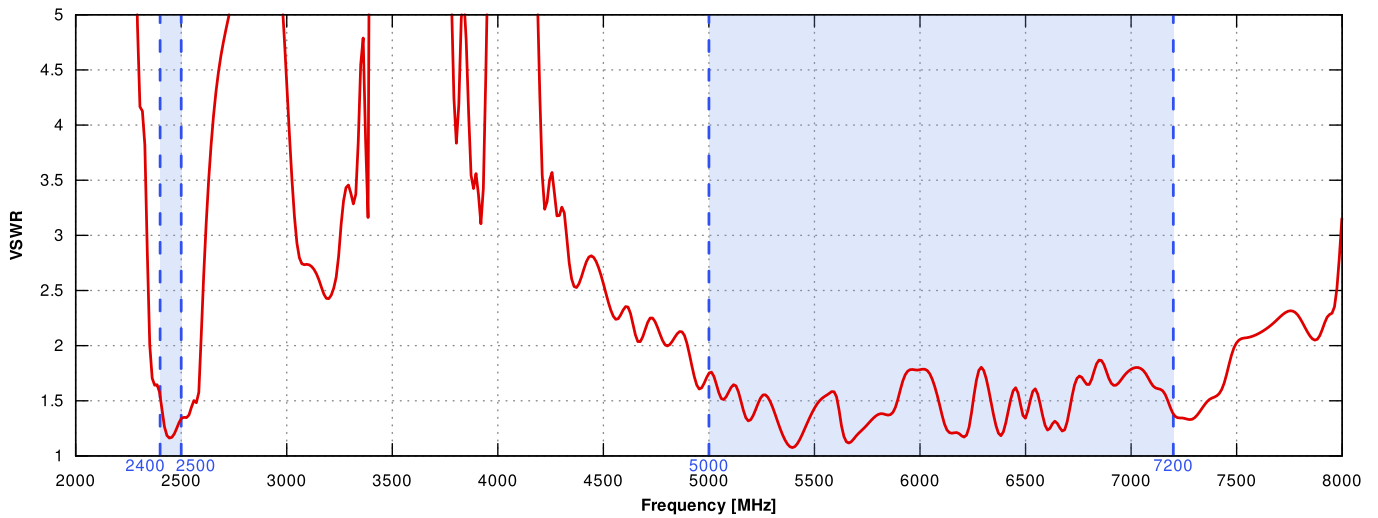
LoRa VSWR



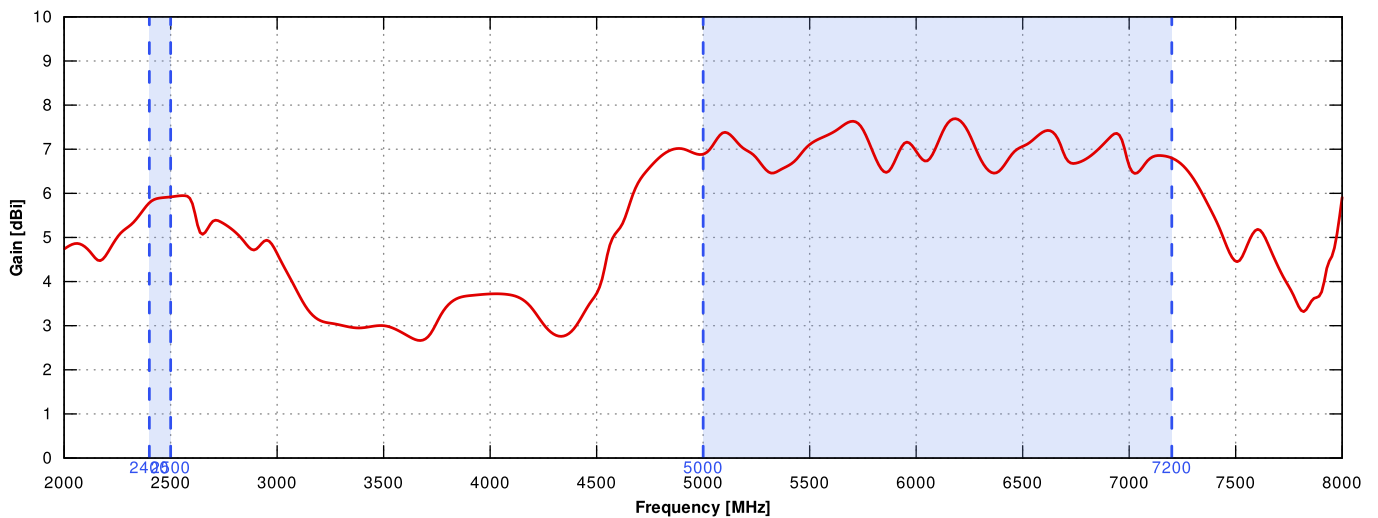
LoRa Gain



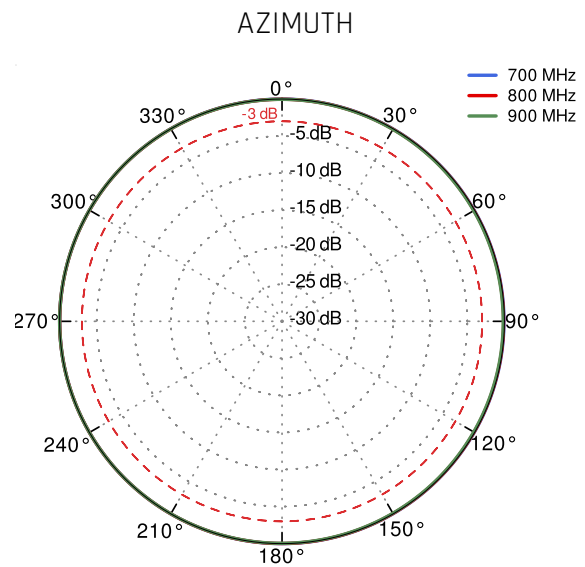
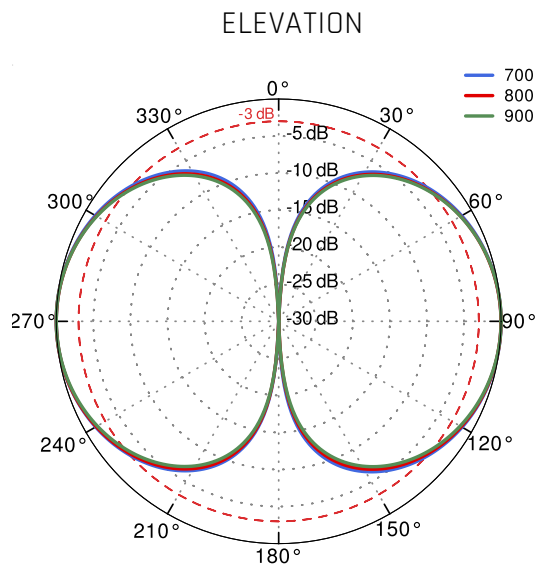
Wi-Fi VSWR



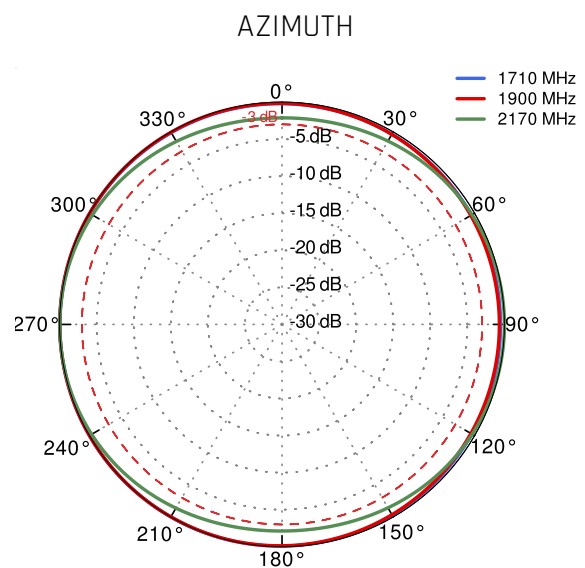
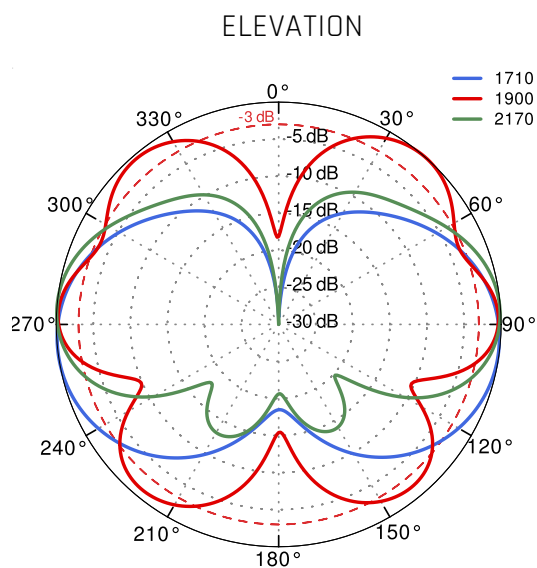
Wi-Fi Gain



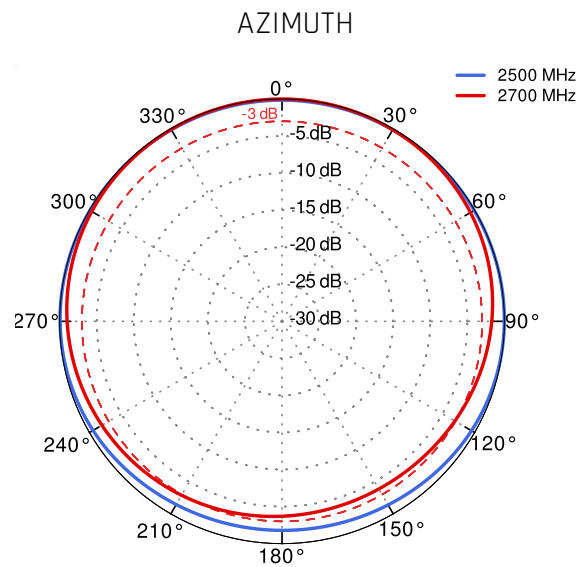
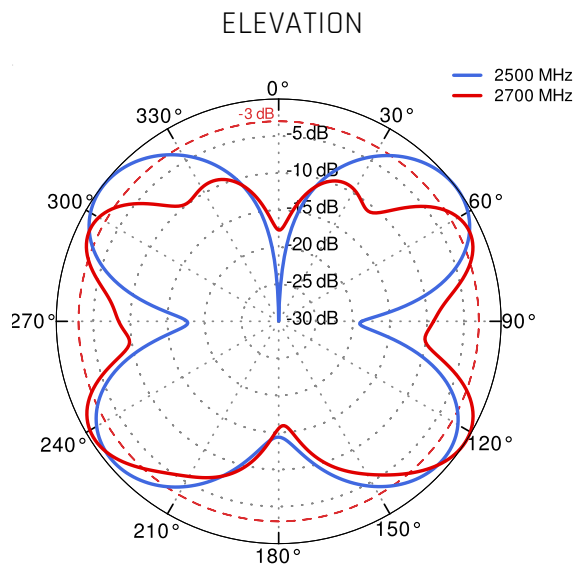
LTE From 700MHz to 900MHz



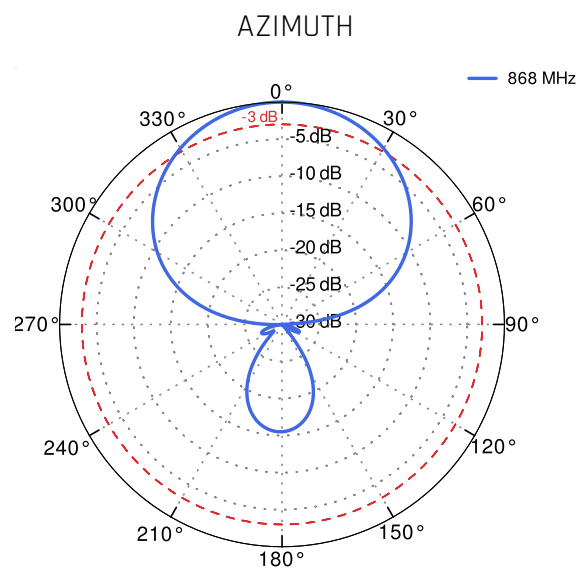
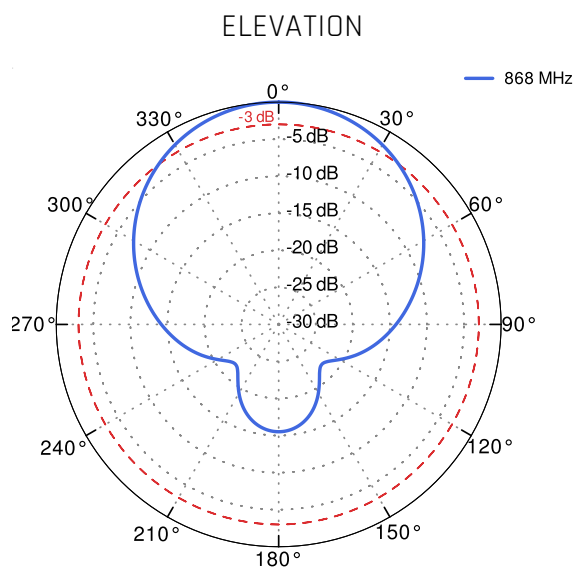
LTE From 1.71GHz to 2.17GHz



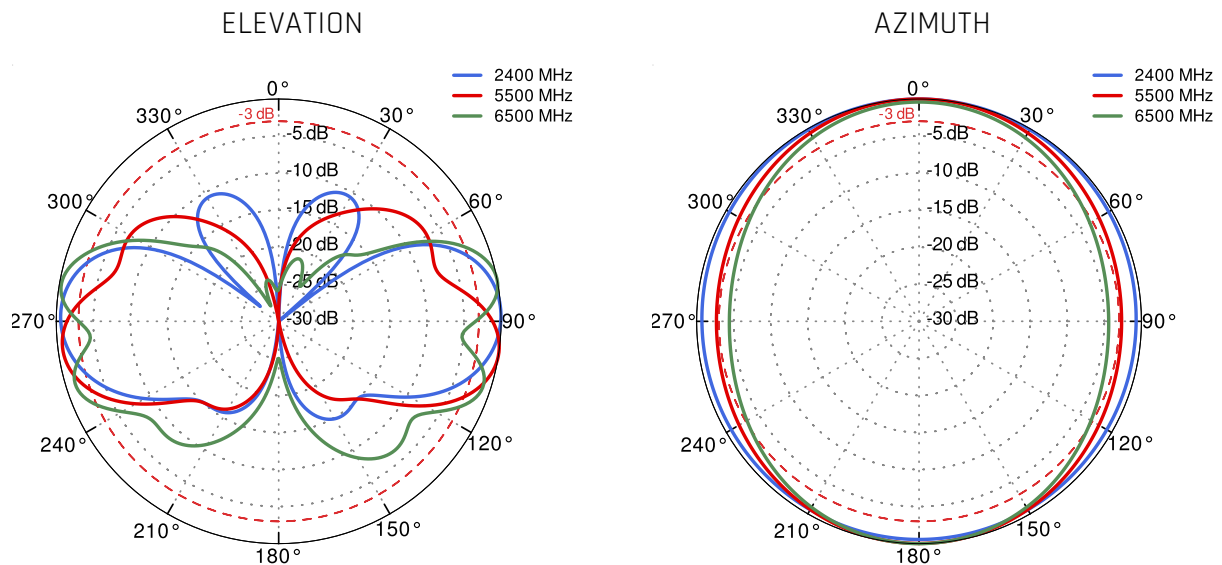
LTE From 2.3GHz to 2.7GHz



LoRa 868 MHz



Wi-Fi From 2.4 GHz to 6.5 GHz



DIMENSIONS

