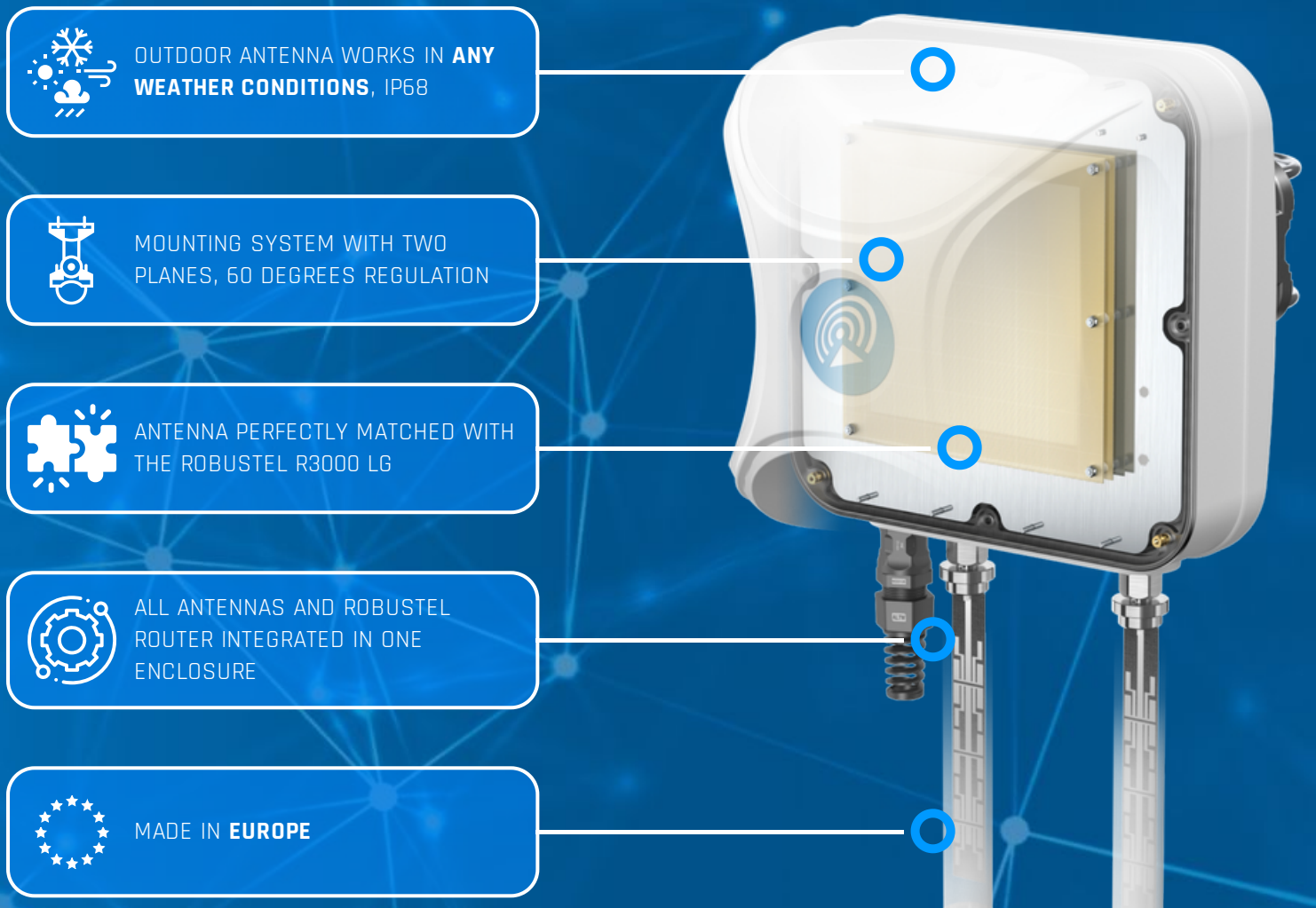


QuMax for Robustel R3000 LoRa

INTEGRATED LORA ANTENNA + MULTI-BAND LTE OMNI ANTENNA + POE SPLITTER + PLACE TO INSTALL ROBUSTEL R3000 LG (ALL-IN-ONE)

QuMax all-in-one antenna for Robustel R3000 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 and LoRa antenna. If you use R3000 LG with QuMax antenna, you get an integrated complete solution with embedded gateway and multi band antennas in one enclosure.

The set contains a [Passive PoE splitter](#), allowing you to split data and power from a single Ethernet cable and maintain gigabit transfer speeds while protecting the LAN port from damage caused by overvoltage, short circuit or improper connection.



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 |

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

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

LTE / 4G UMTS

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

LTE / 4G WCS DARS

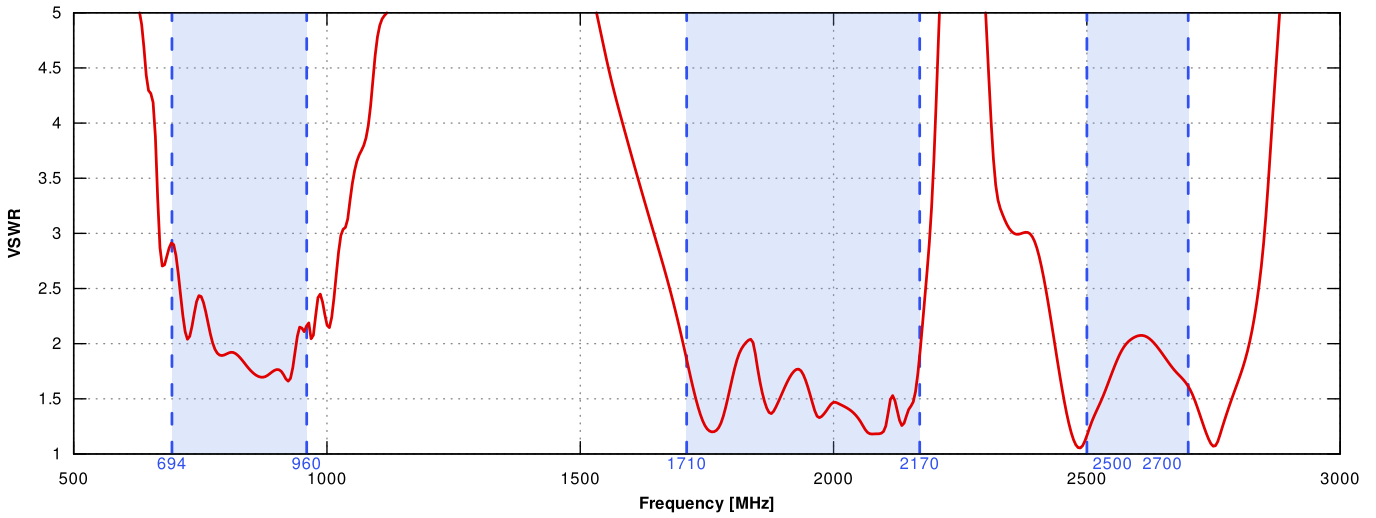
| | | | | | | | | |
|-------------|----|----|--|--|--|--|--|-------------|
| 2300 MHz | 30 | 40 | | | | | | 2400 MHz |
|-------------|----|----|--|--|--|--|--|-------------|

LTE / 4G

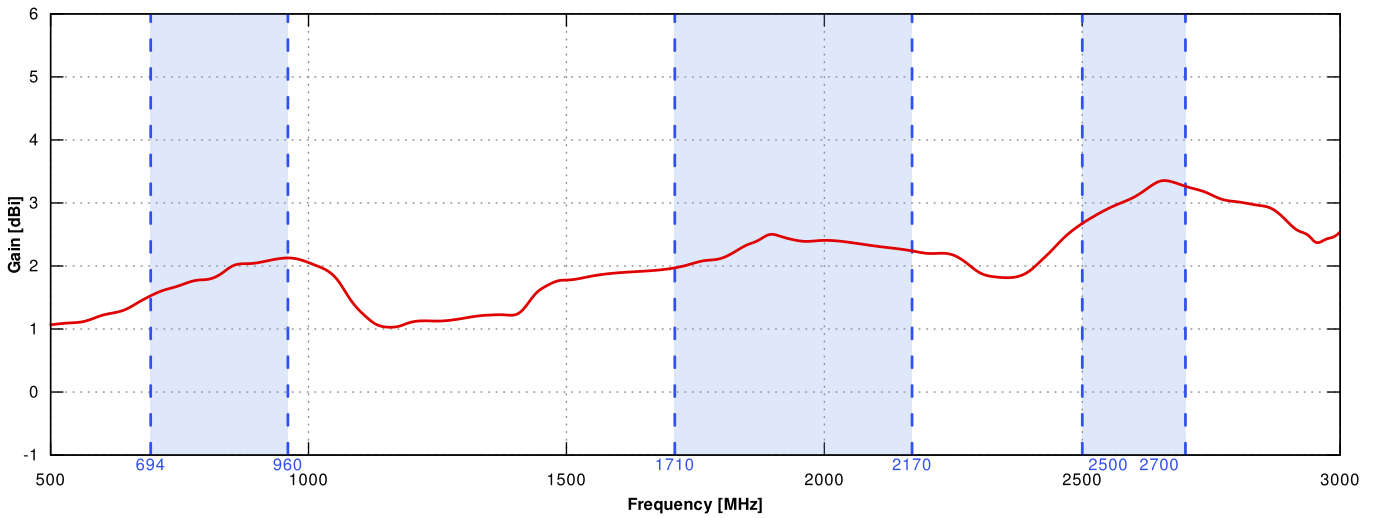
| | | | | | | | | |
|-------------|---|----|----|----|----|-----|--|-------------|
| 2400 MHz | 7 | 38 | 41 | 53 | 69 | n90 | | 2700 MHz |
|-------------|---|----|----|----|----|-----|--|-------------|

PLOTS

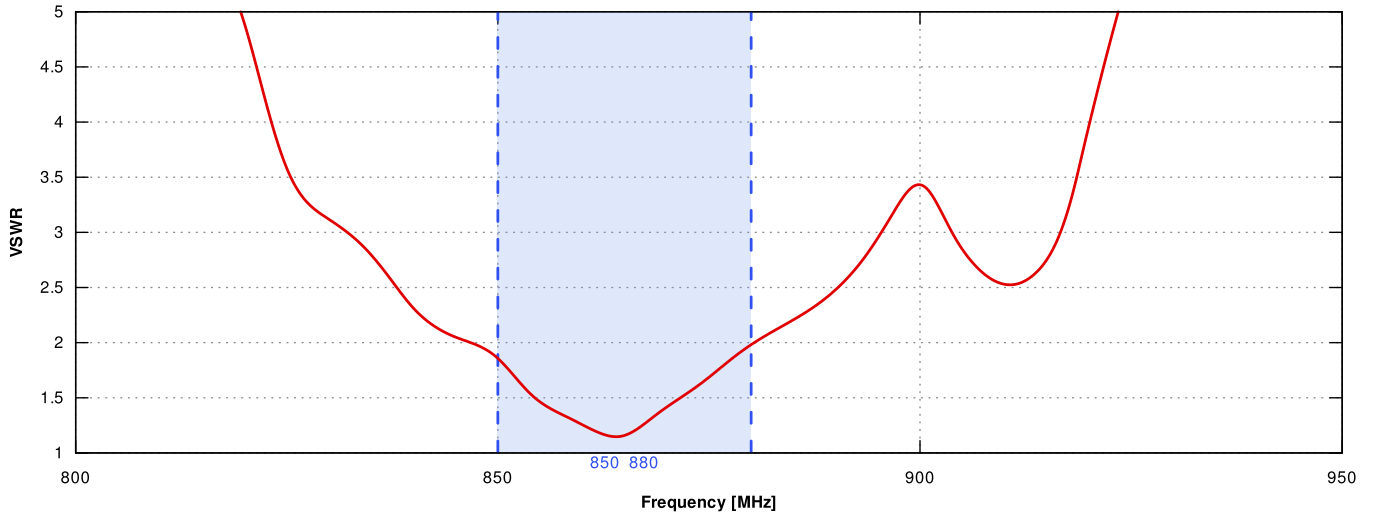
LTE VSWR



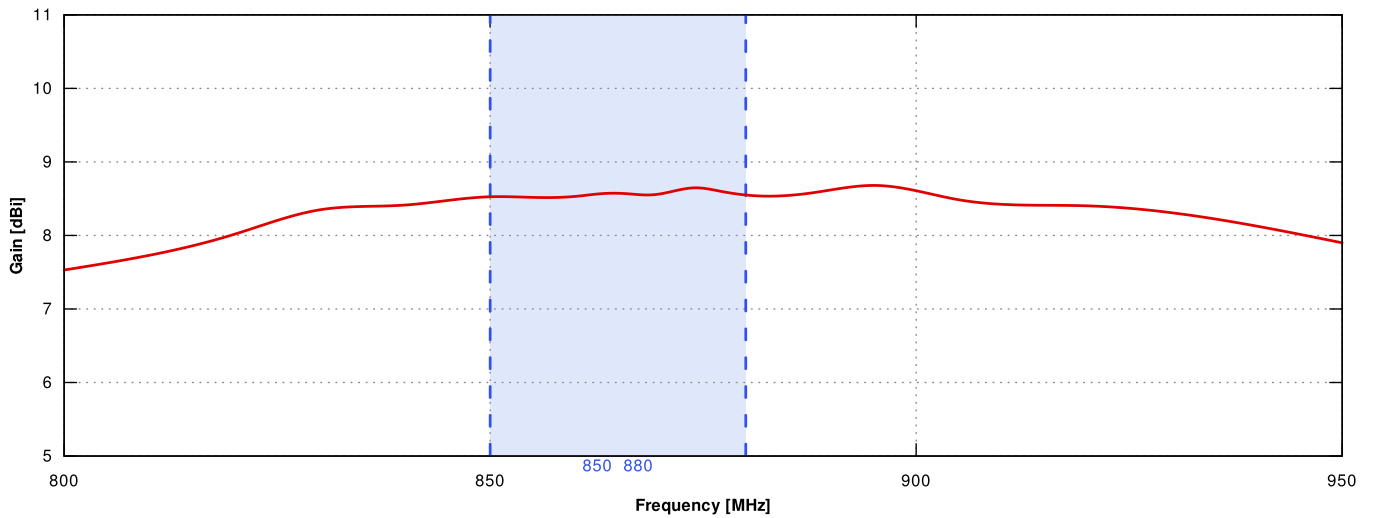
LTE Gain



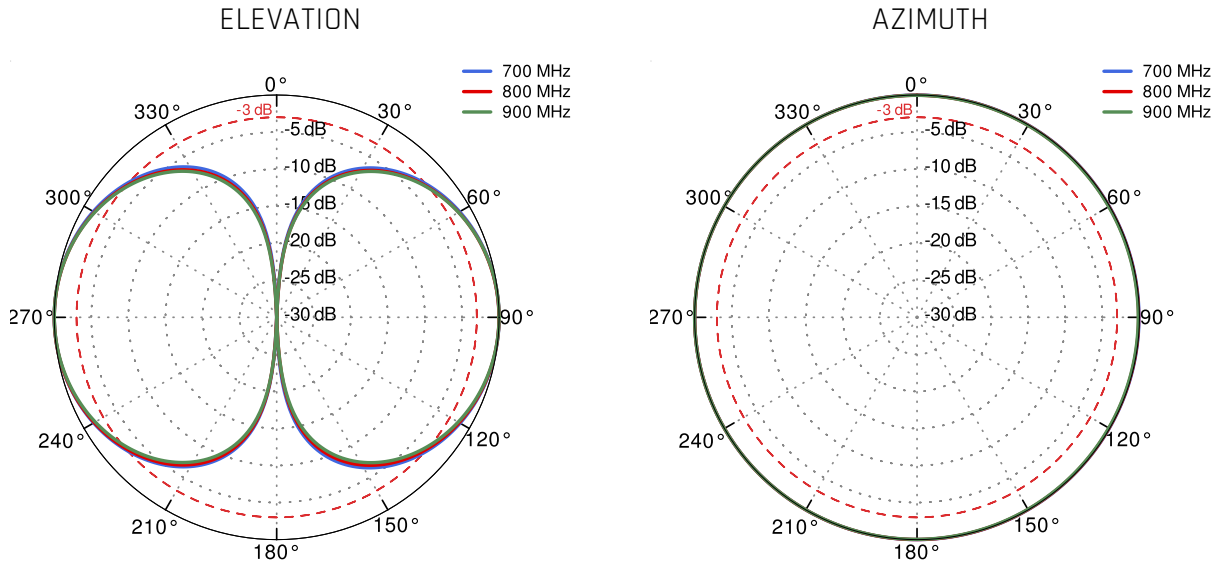
LoRa VSWR



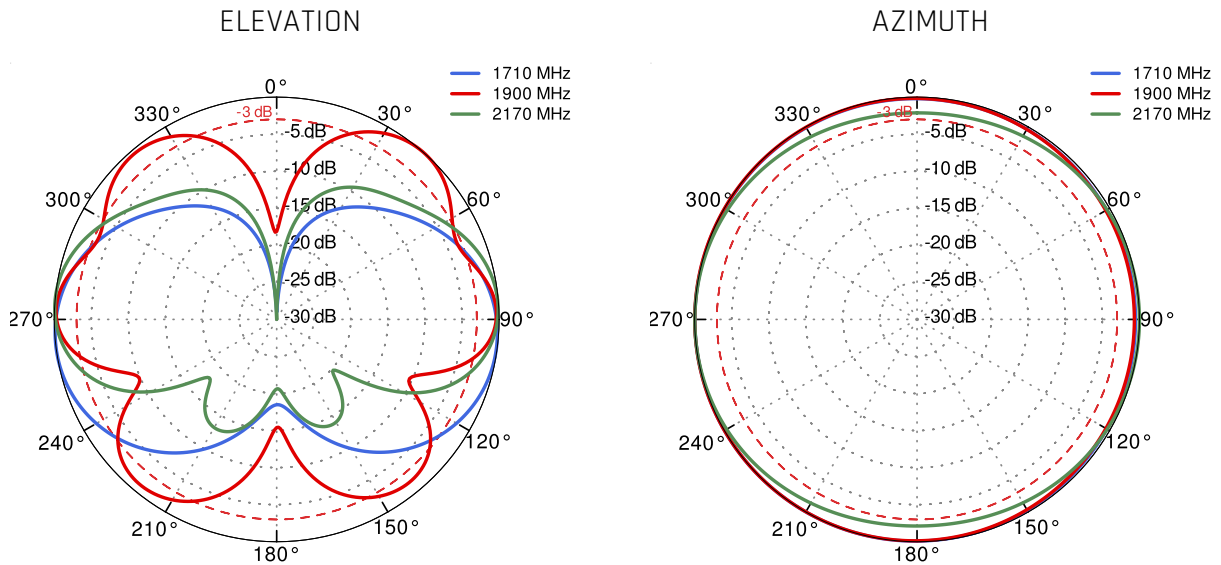
LoRa Gain



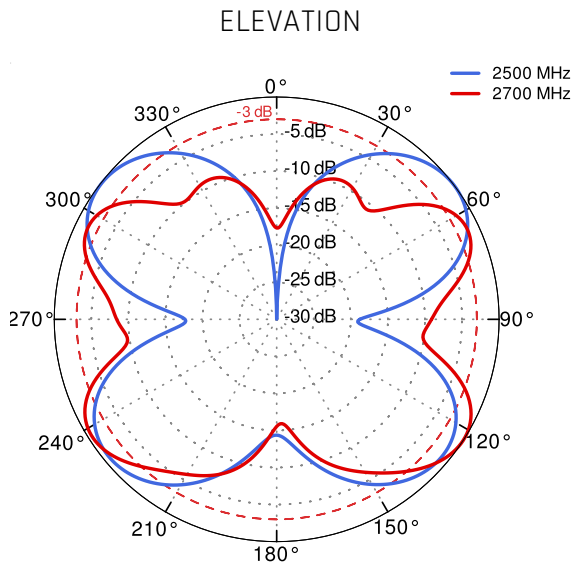
LTE From 700MHz to 900MHz



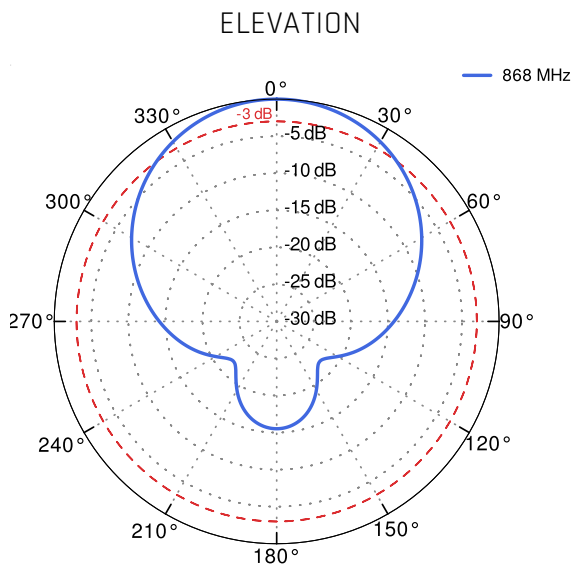
LTE From 1.71GHz to 2.17GHz



LTE From 2.3GHz to 2.7GHz



LoRa 868 MHz



DIMENSIONS

