

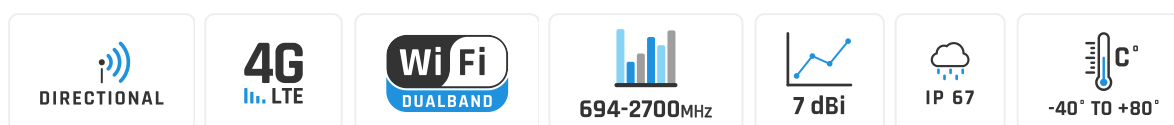
# QuMax for Cradlepoint IBR200

**Integrated outdoor LTE high power directional antenna + outdoor Wi-Fi dual band 2.4 & 5 GHz omni antenna + PoE splitter + place to install Cradlepoint IBR200 (All-in-one)**

QuMAX offers the most powerful directional LTE antenna of all QuWireless antennas. It is dedicated to connections with long distance to base station. It is designed to have Cradlepoint **IBR200** router installed inside IP67 enclosure. It is the first choice for fixed installations in industrial environment.

Outdoor Wi-Fi dual band 2.4GHz & 5GHz omni antenna is included in the set and optional for use with IBR200.

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.



ALL ANTENNAS AND CRADLEPOINT ROUTER INTEGRATED **IN ONE ENCLOSURE**



OUTDOOR ANTENNA WORKS IN **ANY WEATHER CONDITIONS**, IP67



ANTENNA **PERFECTLY MATCHED** WITH THE ROUTER



MADE IN **EUROPE**



## LTE ANTENNA SPECIFICATION

|                        |  |
|------------------------|--|
| FREQUENCY              | 0.694 - 0.96 GHz<br>1.7 - 2.2 GHz<br>2.2 - 2.7 GHz   |
| 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, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 44, 53, 65, 66, 67, 68, 69, 85, 103, n80, n81, n82, n83, n84, n86, n89, n90, n95, n97, n98, n100, n101, n256 |
| GAIN                   | 0.694 - 0.96 GHz : 4 dBi<br>1.7 - 2.2 GHz : 5 dBi<br>2.2 - 2.7 GHz : 6 dBi   |
| FRONT-TO-BACK          | >8 dB  |
| VSWR                   | <1.30, max <1.80   |
| BEAMWIDTH              | 90°/90° ±30°   |
| POLARIZATION           | Vertical   |
| IMPEDANCE              | 50 $\Omega$  |

## WI-FI ANTENNA SPECIFICATION

|              |   |
|--------------|---|
| FREQUENCY    | 2.4 - 2.5 GHz<br>5.0 - 7.2 GHz                            |
| GAIN         | 2.40 - 2.50 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 $\Omega$   |

## MECHANICAL SPECIFICATION

|                       |  |
|-----------------------|--|
| MATERIALS             | ABS, aluminum, PTFE, Fiberglass                |
| CONNECTOR TYPE        | RJ45 + 1*Nm in external omni wi-fi antenna     |
| INGRESS PROTECTION    | IP67   |
| DIMENSIONS            | 272 x 276 x 96 mm<br>10.71 x 10.87 x 3.78 inch |
| WEIGHT                | 1.8 kg<br>3.97 lbs                             |
| OPERATING TEMPERATURE | From -40°C to 80°C<br>From -40°F to 176°F      |
| MAST DIAMETER         | 25-60mm<br>0.98-2.36 inch                      |

# **FREQUENCY BANDS**

**LTE/4G GSM**

|            |     |      |    |     |     |     |     |            |
|------------|-----|------|----|-----|-----|-----|-----|------------|
| 617M<br>Hz | 5   | 8    | 12 | 13  | 14  | 17  | 18  | 960M<br>Hz |
|            | 19  | 20   | 26 | 27  | 28  | 29  | 44  |            |
|            | 67  | 68   | 85 | 103 | n81 | n82 | n83 |            |
|            | n89 | n100 |    |     |     |     |     |            |

**LTE/4G UMTS**

|             |     |     |     |     |      |    |     |             |
|-------------|-----|-----|-----|-----|------|----|-----|-------------|
| 1710<br>MHz | 1   | 2   | 3   | 4   | 9    | 10 | 25  | 2170<br>MHz |
|             | 33  | 34  | 35  | 36  | 37   | 39 | n80 |             |
|             | n84 | n86 | n95 | n98 | n101 |    |     |             |

**LTE/4G WCS DARS**

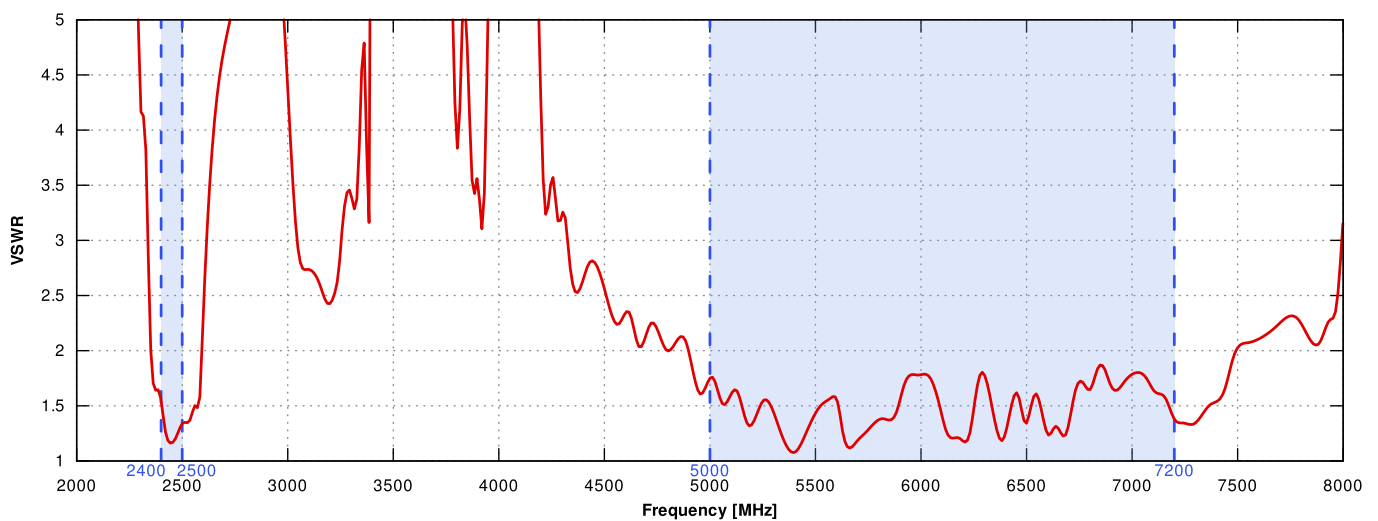
|             |    |    |     |  |  |  |  |             |
|-------------|----|----|-----|--|--|--|--|-------------|
| 2300<br>MHz | 30 | 40 | n97 |  |  |  |  | 2400<br>MHz |
|-------------|----|----|-----|--|--|--|--|-------------|

**LTE/4G**

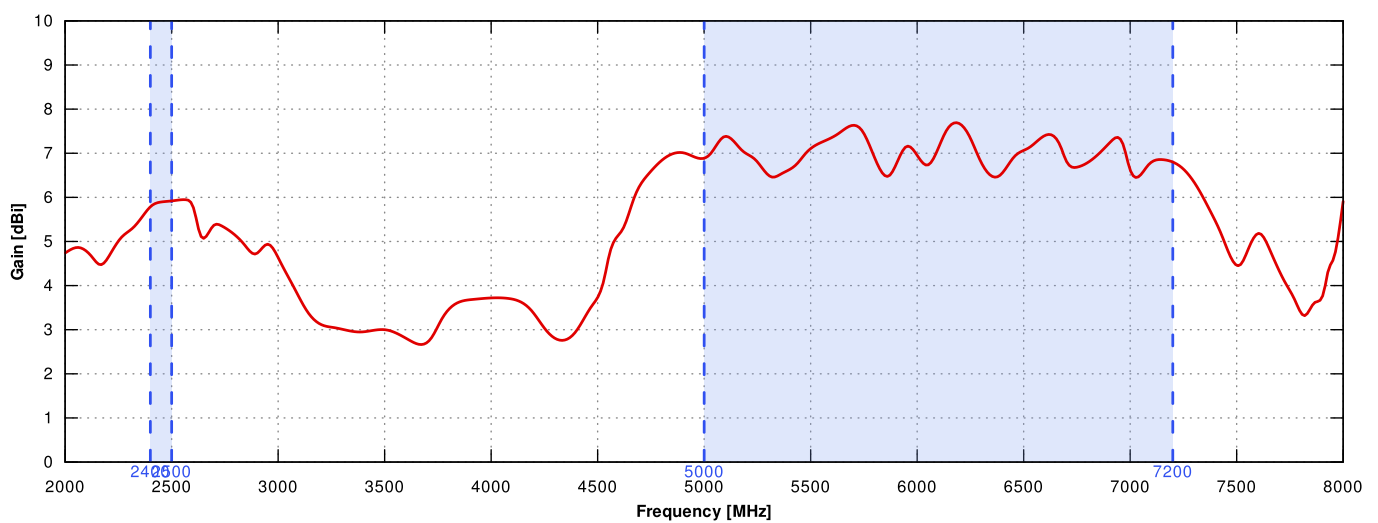
|             |   |    |    |    |    |     |             |  |
|-------------|---|----|----|----|----|-----|-------------|--|
| 2400<br>MHz | 7 | 38 | 41 | 53 | 69 | n90 | 2700<br>MHz |  |
|-------------|---|----|----|----|----|-----|-------------|--|

## PLOTS

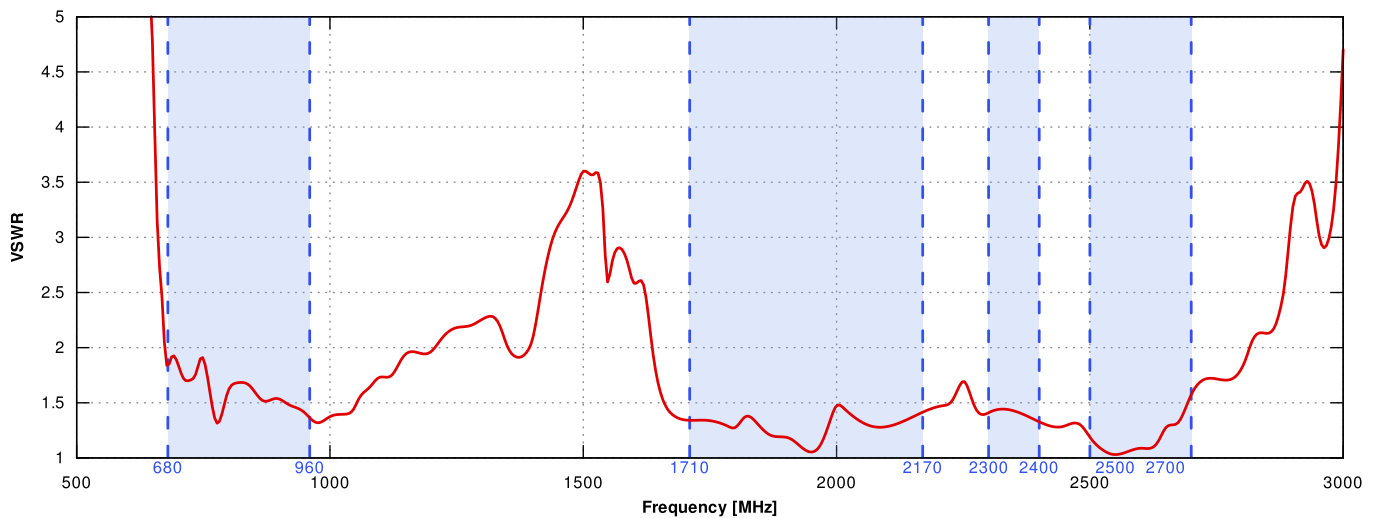
### VSWR for Wi-Fi antenna



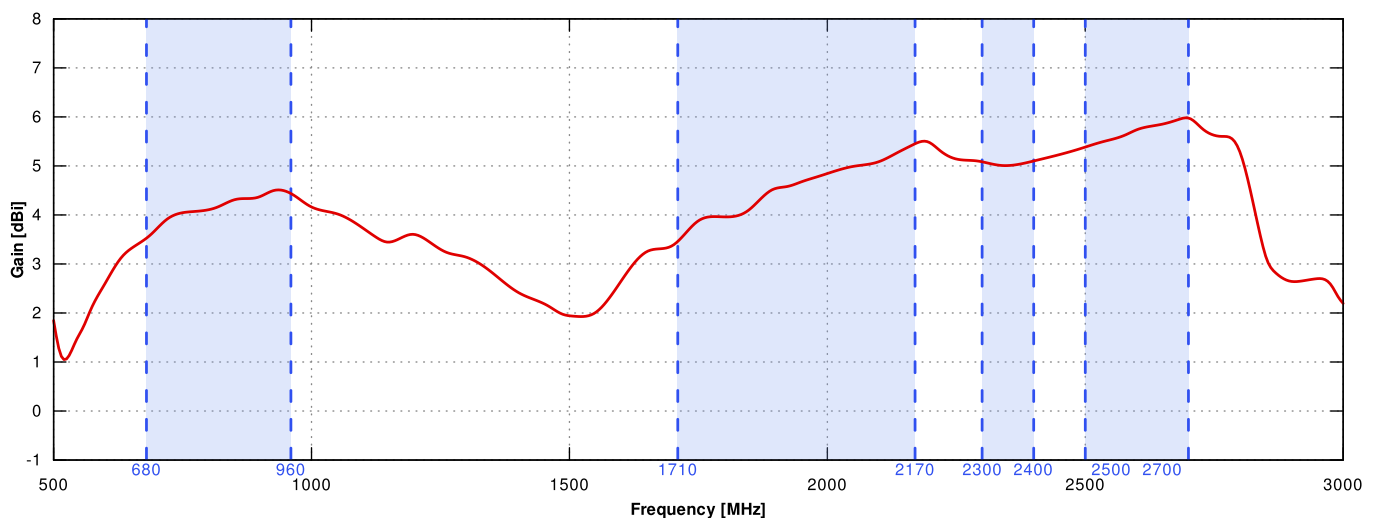
### Gain for Wi-Fi antenna



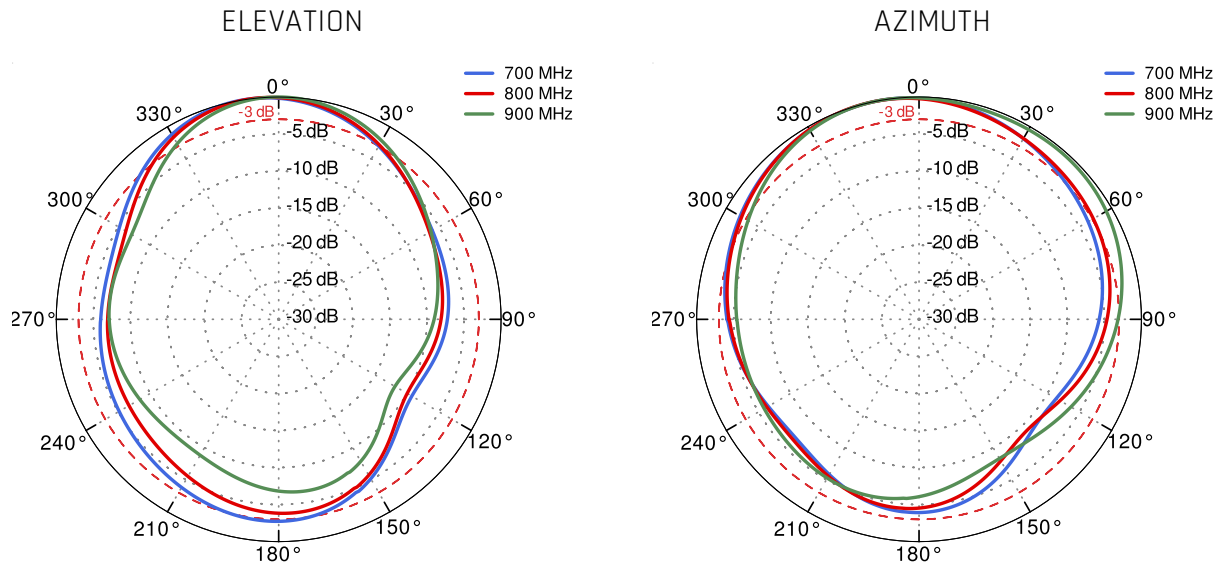
## VSWR for LTE antenna



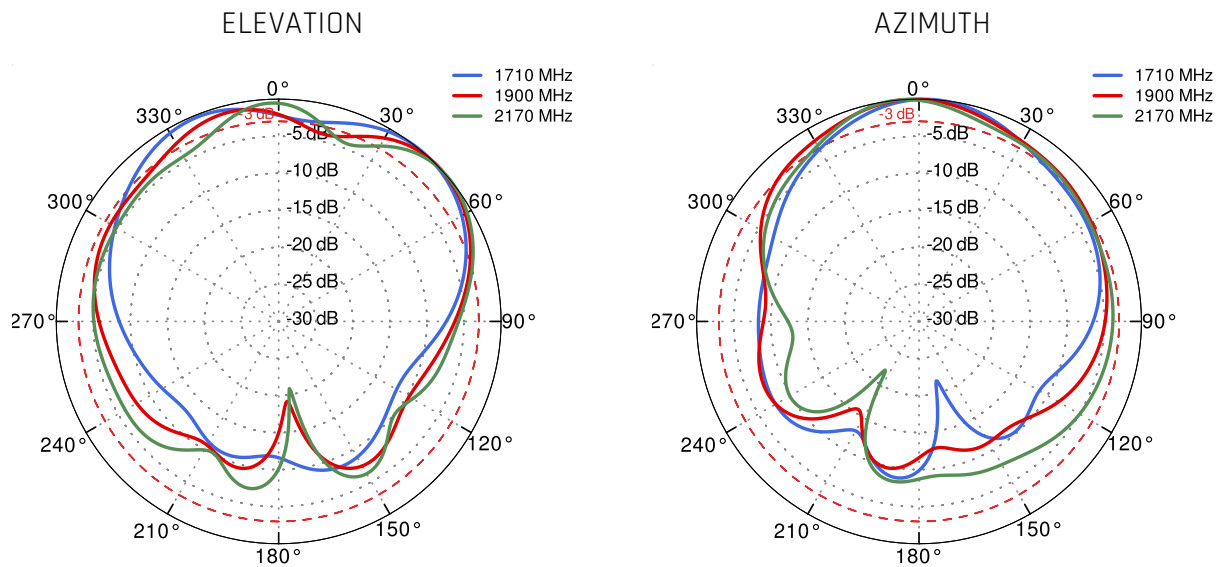
## Gain for LTE antenna



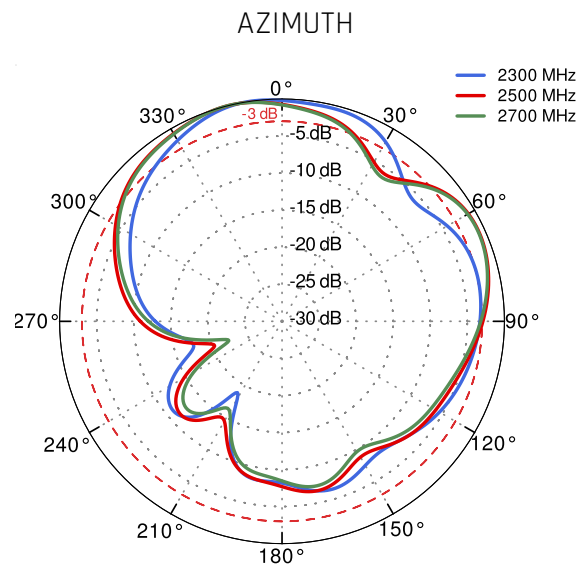
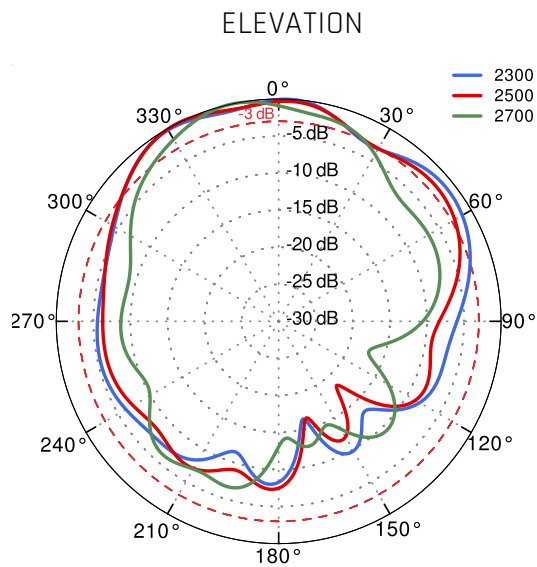
## LTE from 700MHz to 900MHz



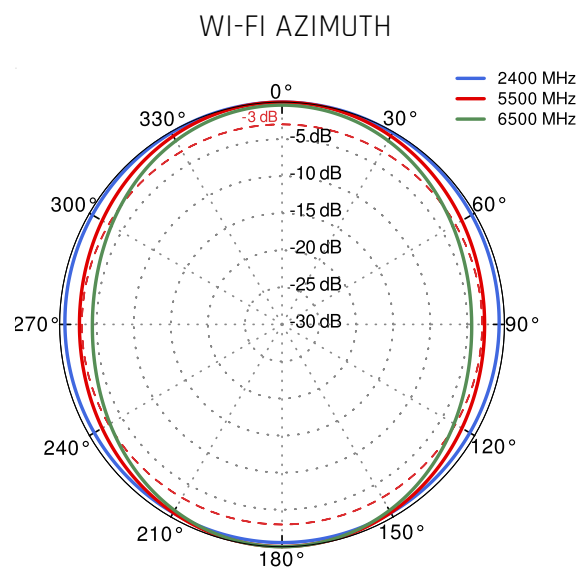
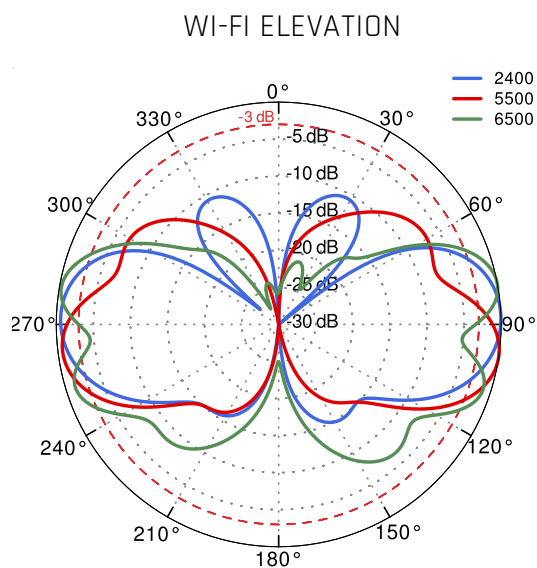
## LTE from 1.71GHz to 2.17GHz



## LTE from 2.3GHz to 2.7GHz



## Wi-Fi 2.4GHz and 5GHz





## DIMENSIONS

