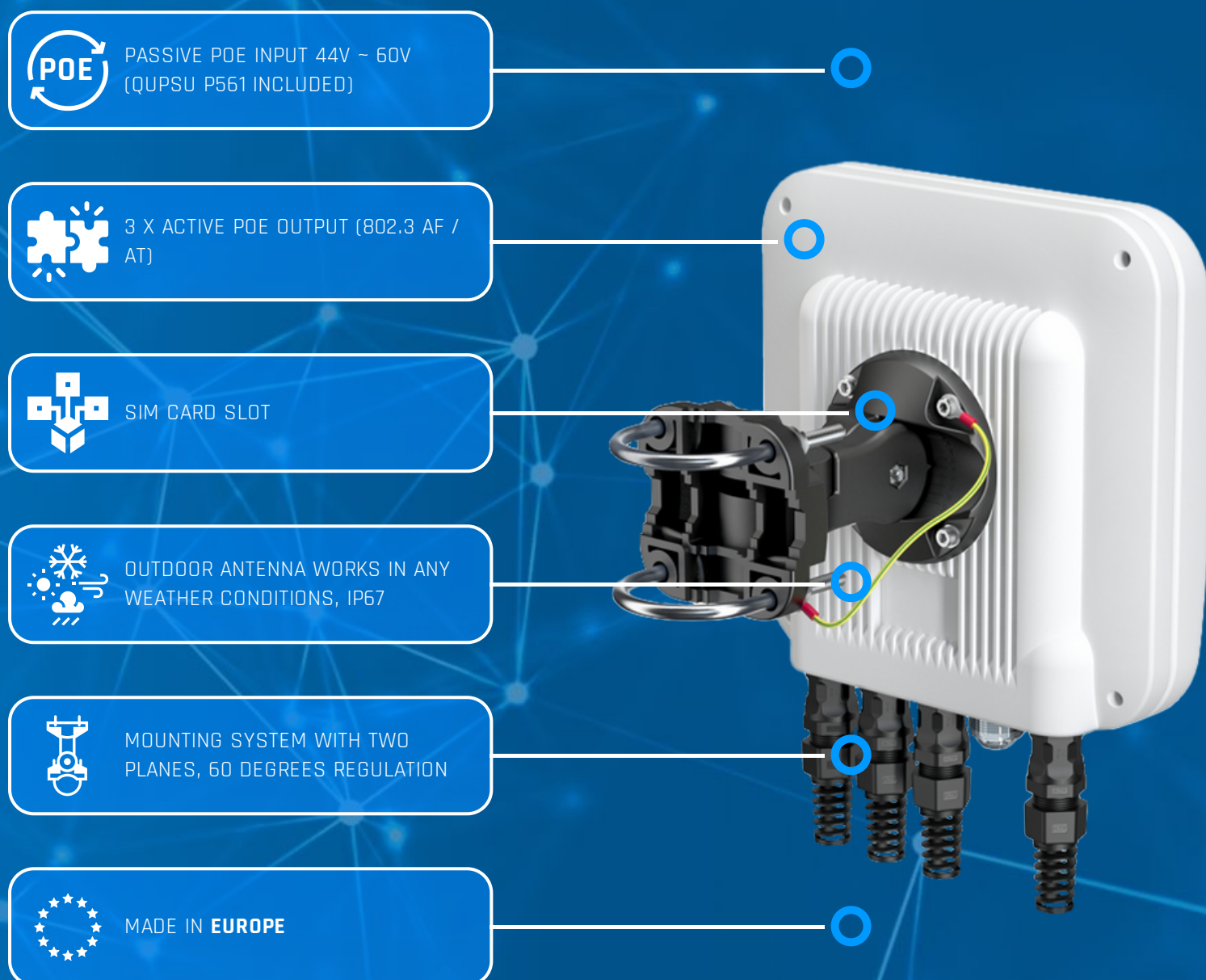
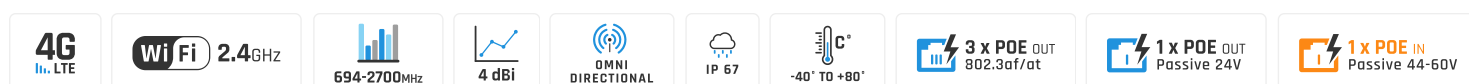


QuCam for Teltonika RUT240/RUT241

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

QuCam for RUT2xx series 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, RUT230, RUT240, RUT241 or RUT260 (not included in gateway set). QuCam for RUT241 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.



LTE ANTENNA SPECIFICATION

| | |
|------------------------|--|
| FREQUENCY | 694 - 960 MHz 1.7 - 2.2 GHz 2.5 - 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, 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 |
| GAIN | 694 - 960 MHz : 2 dBi 1.7 - 2.2 GHz : 2 dBi 2.5 - 2.7 GHz : 4 dBi |
| 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 |
| GAIN | 3 dBi |
| VSWR | <1.70, max <2.00 |
| BEAMWIDTH | 360°/25° ±5° |
| POLARIZATION | Vertical |
| IMPEDANCE | 50 Ω |

POE SWITCH SPECIFICATION

| | |
|-----------------------|--|
| LAN PORTS | 6x RJ45 10/100Mbps |
| POE INPUT | 1x Passive PoE input 44-60V (LAN_5) |
| POE OUTPUT | 4x Active PoE 802.3af/at (LAN_1-4) 1x Passive PoE output 24V/24W (LAN_6) |
| POE OUTPUT PROTECTION | LAN_1-4: 0.75A, LAN_5: 1.25A (separate resettable fuses) |
| PASSIVE POE MODE | mode B (4,5+) (7,8-) |
| LEDS | 1x Power on (white, on board), 6x Link (orange, on port), 6x Transmit (green, on port) |
| OPERATING TEMPERATURE | -10°C ... +40°C |
| INSTALLATION | 4x holes Ø2.5mm |
| DIMENSIONS | 73mm x 145mm x 17mm (WxLxH) |
| WEIGHT | 69.5g |

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) | 2kVAC/5mA/1s |
| INPUT SOCKET | IEC320-C6 |
| AC POWER CORD | 1.5m length, 3 pins EU or UK plug |

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 10/100Mbps Output (PoE): 1x RJ45 10/100Mbps |
| POE MODE | mode B: pins 4,5 + / pins 7,8 - |
| LEDS | Green: Power supply is on Orange: PoE device connected |

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 x 59 x 30mm (LxWxH) |
| SAFETY | CE: EMC/LVD / FCC Part 15 Class B/ EN55022 Class B/ EN55024 |

FREQUENCY BANDS

LTE / 4G GSM

| | | | | | | | | |
|-----|-----|------|----|-----|-----|-----|-----|-----|
| | 5 | 8 | 12 | 13 | 14 | 17 | 18 | |
| 617 | 19 | 20 | 26 | 27 | 28 | 29 | 44 | 960 |
| MHz | 67 | 68 | 85 | 103 | n81 | n82 | n83 | MHz |
| | n98 | n100 | | | | | | |

LTE / 4G UMTS

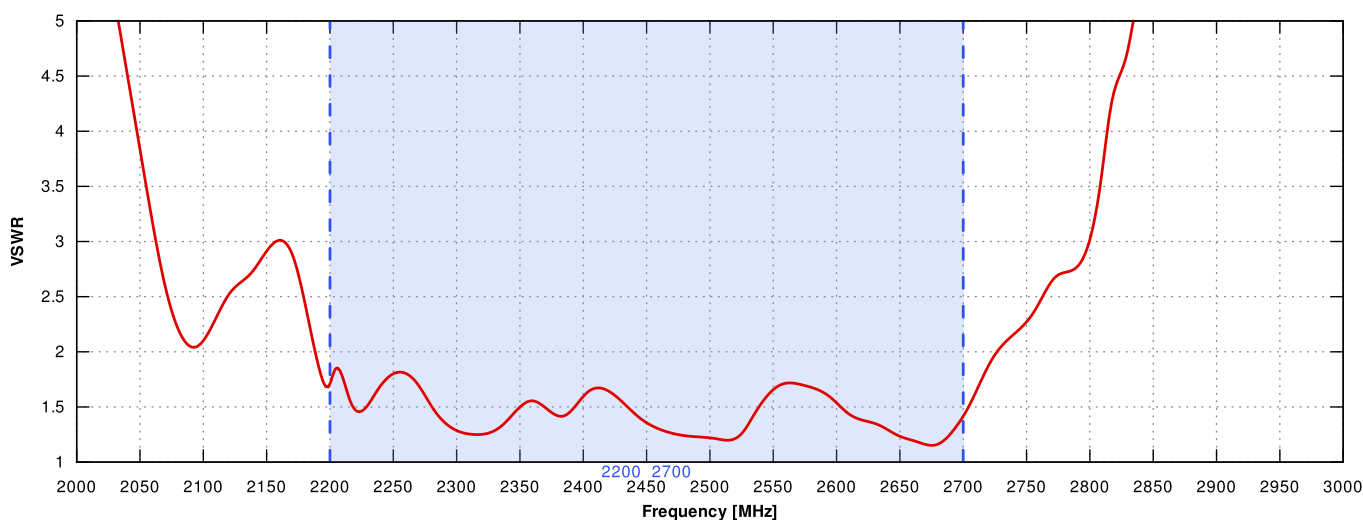
| | | | | | | | | |
|------|-----|-----|-----|-----|------|----|-----|------|
| | 1 | 2 | 3 | 4 | 9 | 10 | 25 | |
| 1710 | 33 | 34 | 35 | 36 | 37 | 39 | n80 | 2170 |
| MHz | n84 | n86 | n95 | n98 | n101 | | | MHz |

LTE / 4G

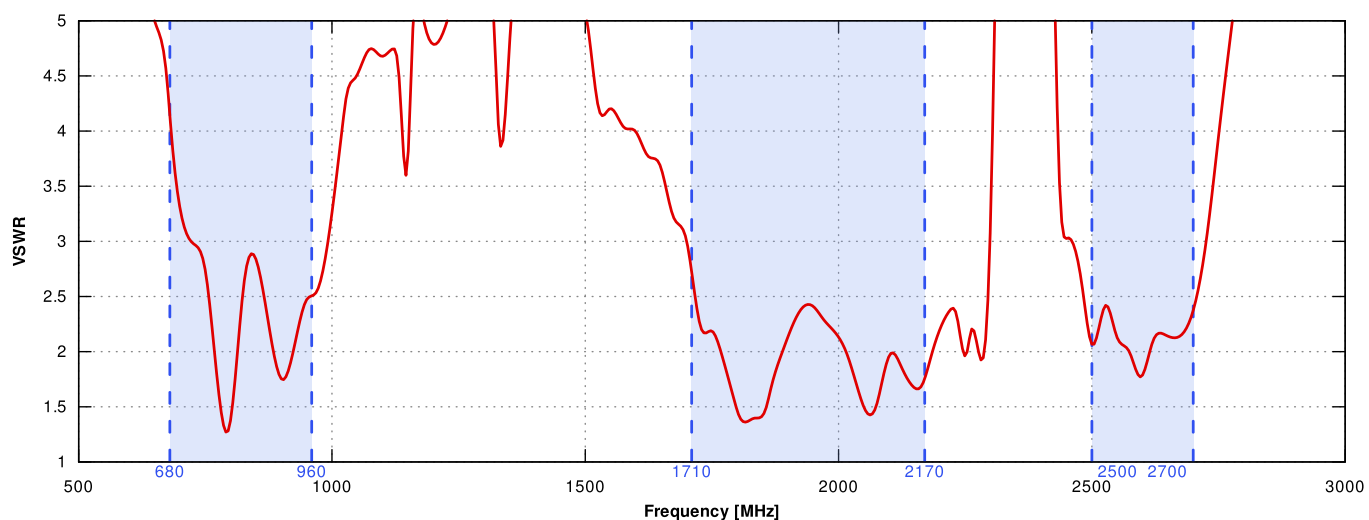
| | | | | |
|------|---|----|----|------|
| 2400 | 7 | 38 | 69 | 2700 |
| MHz | | | | MHz |

PLOTS

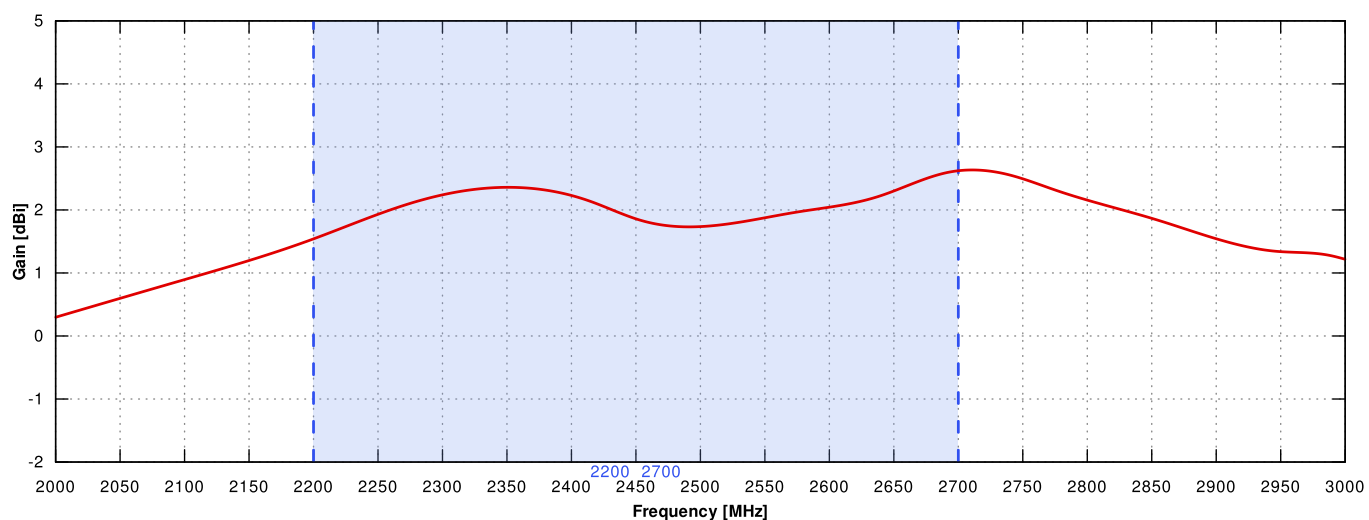
VSWR FOR WI-FI ANTENNA



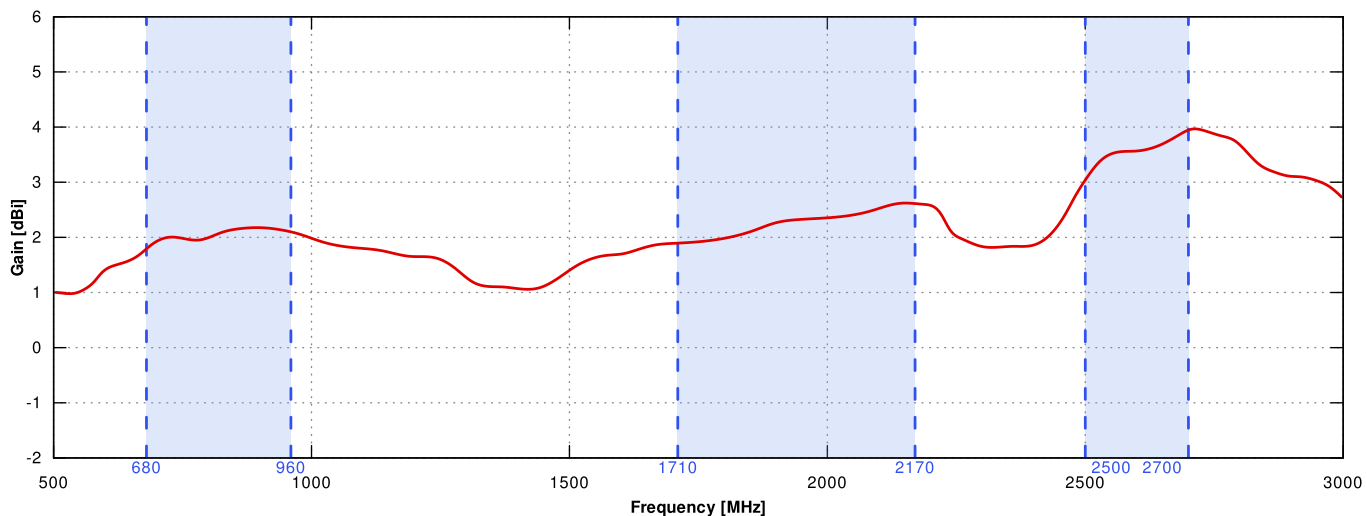
VSWR FOR LTE ANTENNA



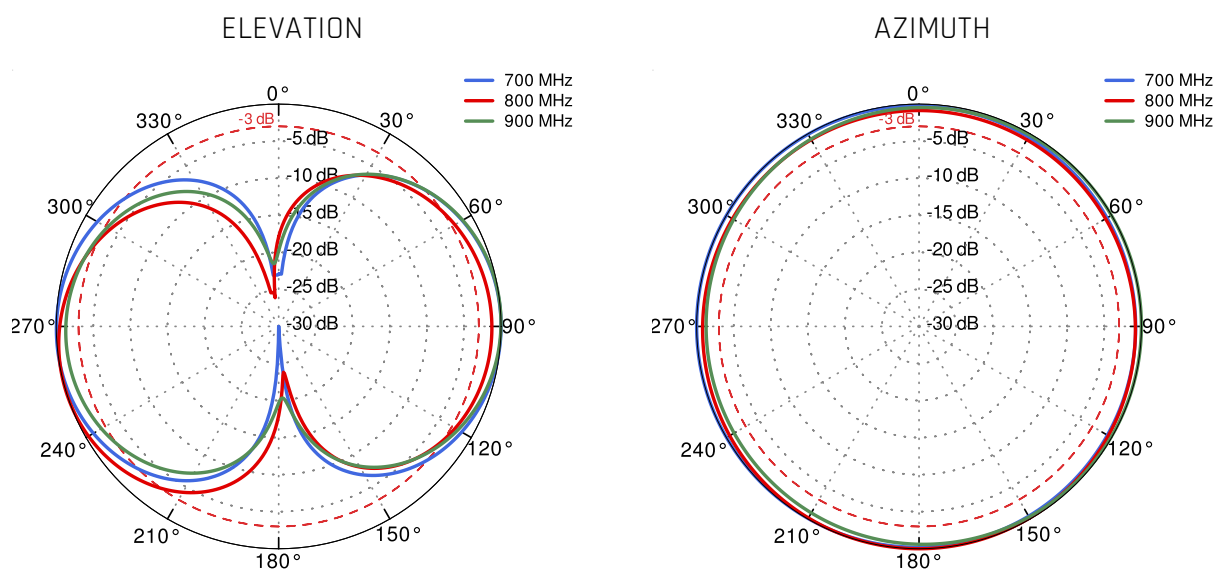
GAIN FOR WI-FI ANTENNA



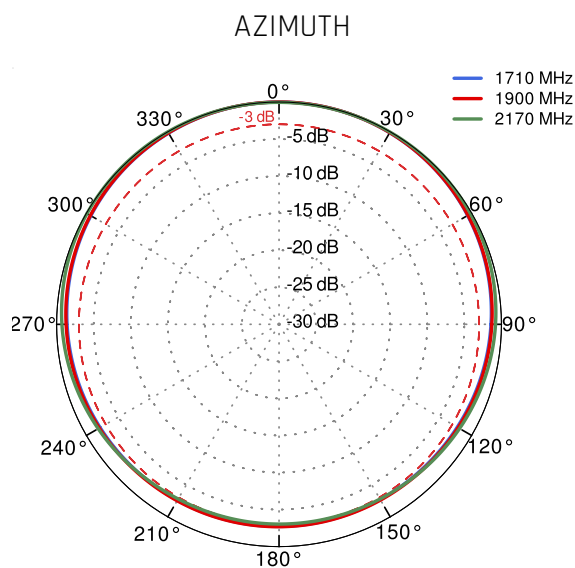
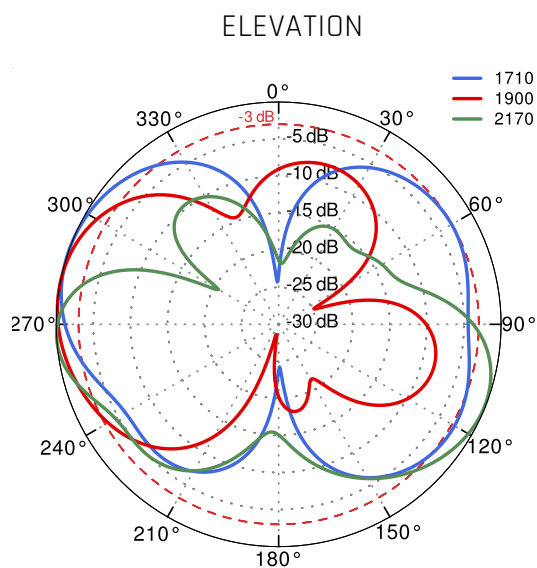
GAIN FOR LTE ANTENNA



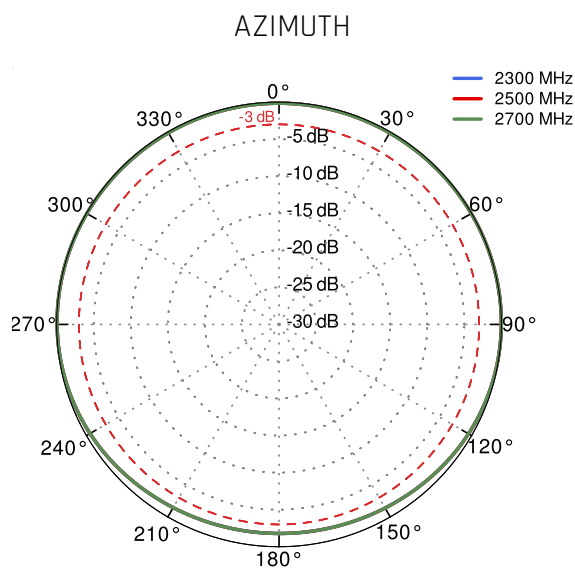
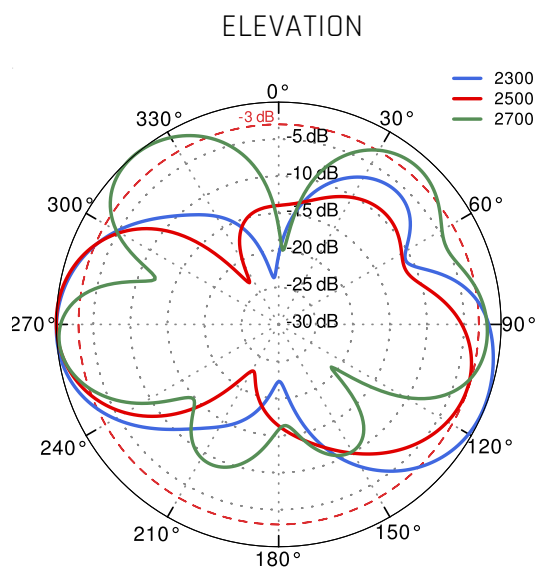
LTE from 700MHz to 900MHz



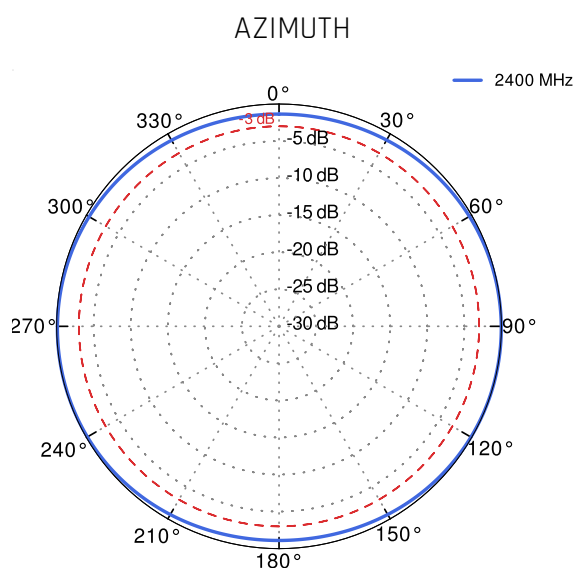
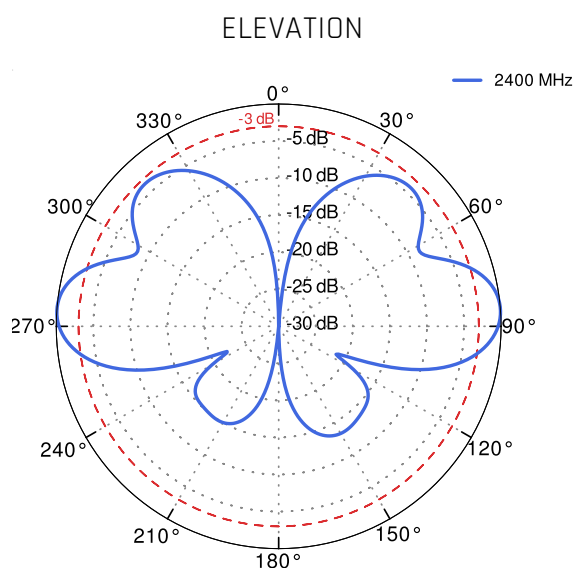
LTE from 1.71GHz to 2.17GHz



LTE from 2.3GHz to 2.7GHz



Wi-Fi 2.4GHz to 2.5GHz



DIMENSIONS

