

QuCAM (Wave) for Teltonika RUTX50 PoE

Outdoor CCTV 5G/LTE PoE gateway with embedded 5G/LTE router & PoE switch for CCTV cameras.

QuCam for Teltonika RUTX50 PoE 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 RUTX50 **(not included in gateway set)**.

QuCam for Teltonika RUTX50 PoE also has integrated omnidirectional 5G/LTE, Wi-Fi and GPS 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.



OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP67



3X ACTIVE POE OUTPUT (802.3 AF / AT)



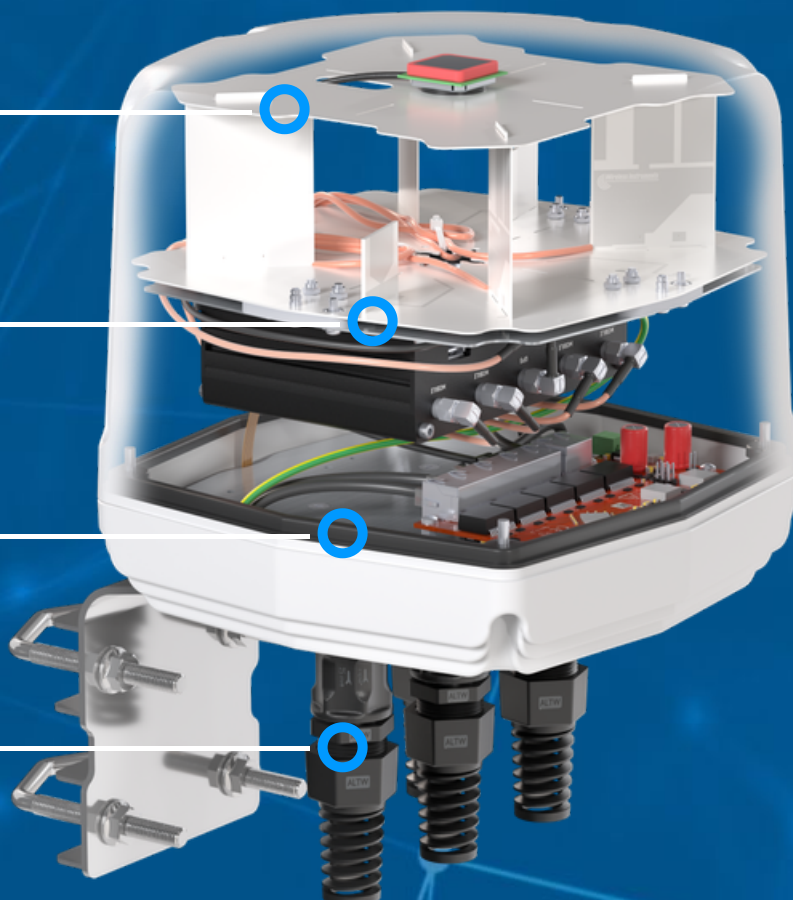
PASSIVE POE INPUT 48V ~ 58V



SIM CARD SLOT



GALVANIZED STEEL, WALL OR POLE MOUNTING BRACKET



5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.58 - 2.0 GHz 2.0 - 3.5 GHz 3.5 - 5.0 GHz 5.0 - 6.35 GHz
MAX. GAIN	0.58 - 2.0 GHz : 2 dBi 2.0 - 3.5 GHz : 3.2 dBi 3.5 - 5.0 GHz : 3.1 dBi 5.0 - 6.35 GHz : 3.8 dBi
SUPPORTED LTE BANDS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 65, 66, 67, 68, 69, 70, 71, 74, 75, 76, 85, 103, 106, 107, 111, 252, 253, 254, 255, 256
SUPPORTED 5G BANDS	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n24, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n46, n47, n48, n50, n51, n53, n54, n65, n66, n67, n68, n70, n71, n74, n75, n76, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n91, n92, n93, n94, n95, n97, n98, n99, n100, n101, n105, n106, n109, n110, n250, n251, n252, n253, n254, n255, n256
VSWR	<2.50, max <3.00
BEAMWIDTH	360°/35° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω
CONNECTOR	4x SMA
CABLE TYPE	RG316

WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.4 - 2.5 GHz 5.0 - 7.2 GHz
MAX. GAIN	2.4 - 2.5 GHz: 2dBi 5.0 - 7.2 GHz: 5dBi
VSWR	< 2.50
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 - 6.5 mA
IMPEDANCE	50 Ω
POLARIZATION	RHCP (right hand circularly polarized)

CONNECTOR	1x SMA
CABLE TYPE	RG174

POE SWITCH SPECIFICATION

IEEE STANDARD	IEEE 802.3ab 1000Base-T Gigabit Ethernet IEEE 802.3AT PoE (Power over Ethernet)
POWER INPUT	Powered from Passive PoE Input 48-58V 3A (Supports both PoE A mode and B mode) or DC Input 48-58V 3A
POE OUTPUT	4x 802.3AT 30W or 3x 802.3AT 30W + 1x Passive PoE 24V 25W
DATA OUT	RJ45 10/100/1000Base-T(X)
OPERATING TEMPERATURE	-40°C ... +70°C
DIMENSIONS	125mm x 60mm x 14mm
EN 61000-4-2 (ESD)	+/- 6V contact, +/- 8kV air
EN 61000-4-3 (RS)	10V/m Cryteria A
EN 61000-4-4 (EFT)	+/- 1kV Cryteria A
EN 61000-4-8	30A /m
EN 61000-4-5 (SURGE)	1kV
IEC60950-1	YES
EN62368-1	YES

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)	3kVAC/5mA/1s
INPUT SOCKET	IEC320-C6
AC POWER CORD	1.5m length, 3 pins EU or UK plug or US 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 10/100/1000Mbps Output (PoE): 1x RJ45 10/100/1000Mbps
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	146.5 x 61.95 x 32.2mm ± 1mm (LxWxH)
SAFETY	CE: EMC/LVD / FCC Part 15 Class B/ EN55022 Class B/ EN55024

MECHANICAL SPECIFICATION

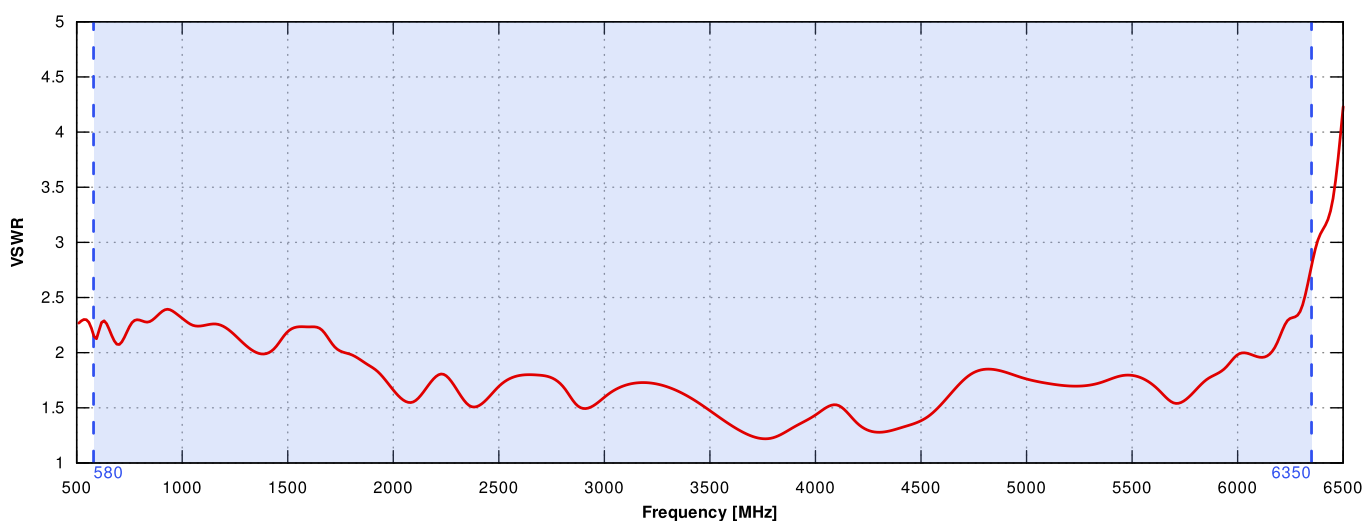
MATERIALS	ABS, aluminum, PTFE
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F
OUTER DIMENSIONS	210 x 210 x 205 mm 8.27 x 8.27 x 8.07 inch
INGRESS PROTECTION	IP67
MAST DIAMETER	25-66 mm 0.98-2.60 inch
ENCLOSURE RECOMMENDED TIGHTENING TORQUE	0.5 - 0.7 Nm

COMPATIBLE ROUTERS

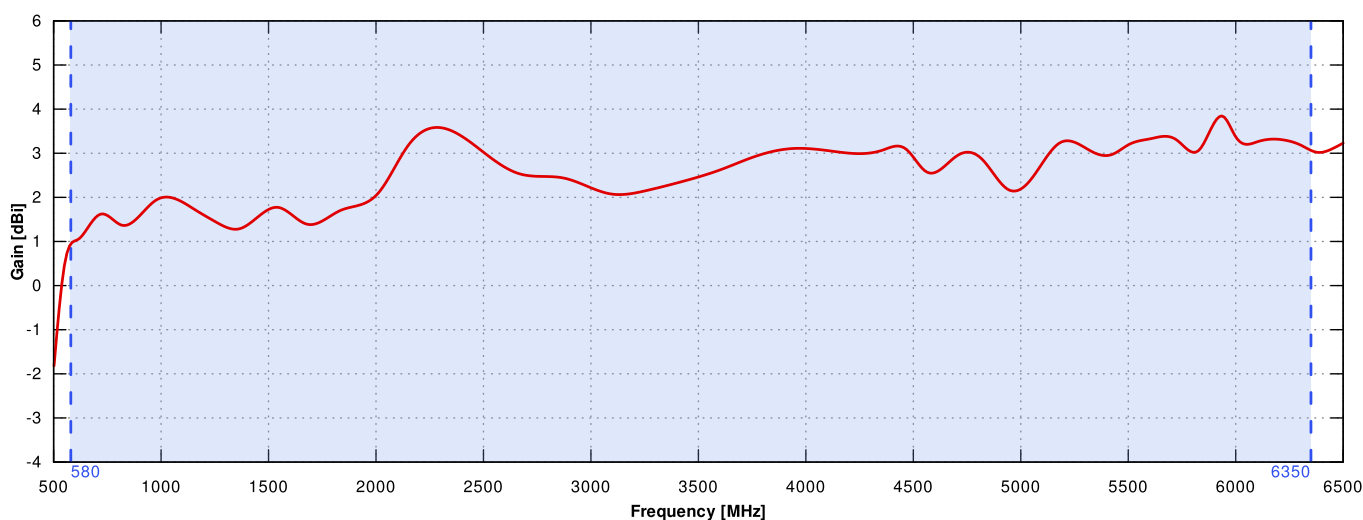
VARIANT: CX50WP 

PLOTS

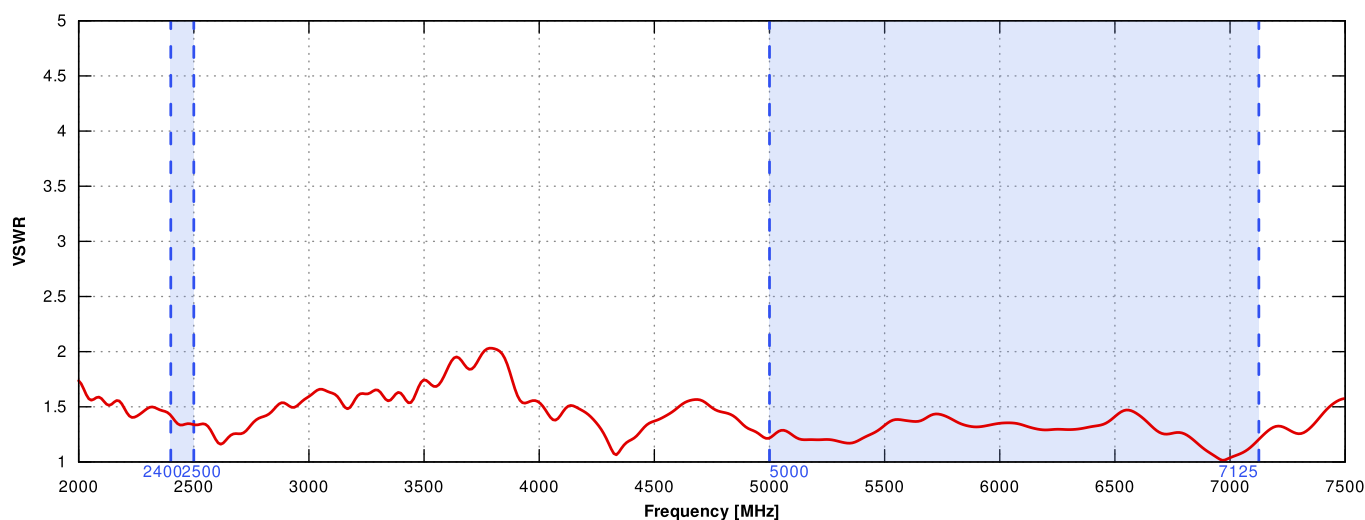
5G/LTE VSWR



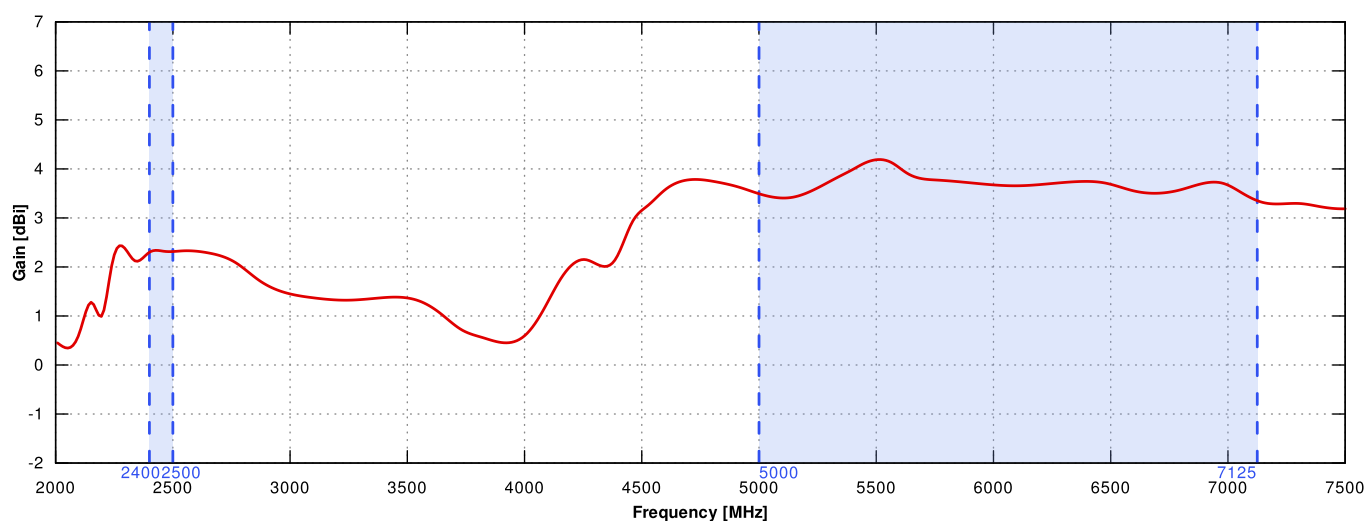
5G/LTE Gain



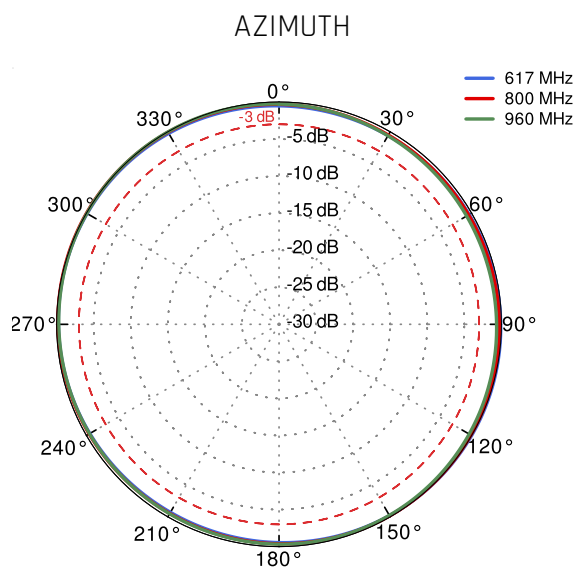
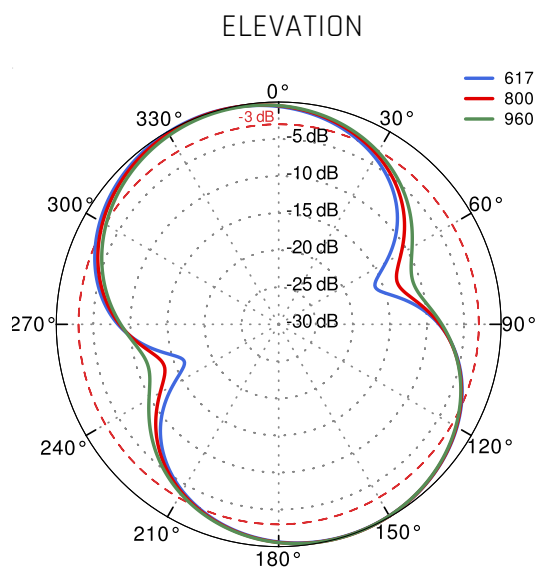
WI-FI VSWR



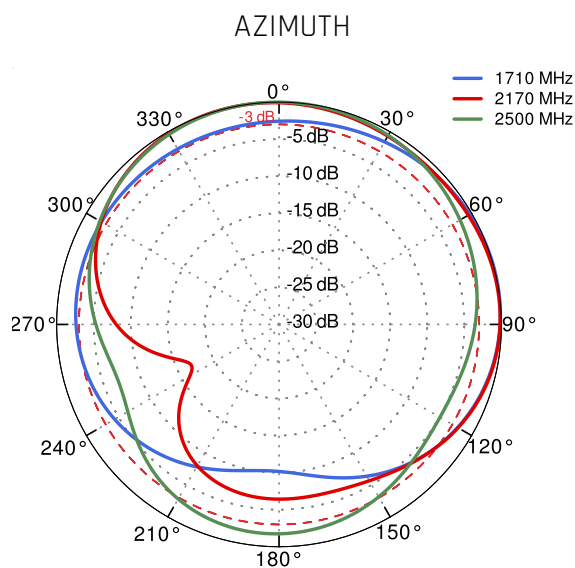
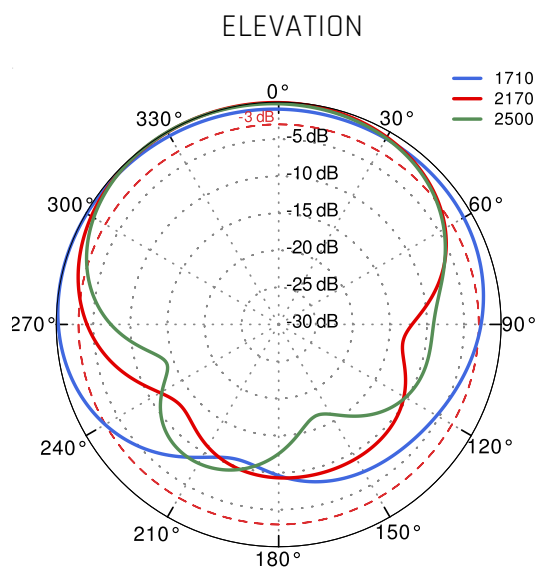
WI-FI Gain



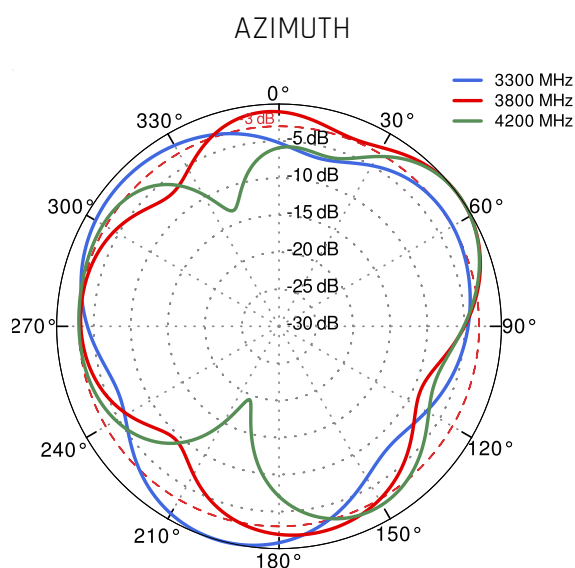
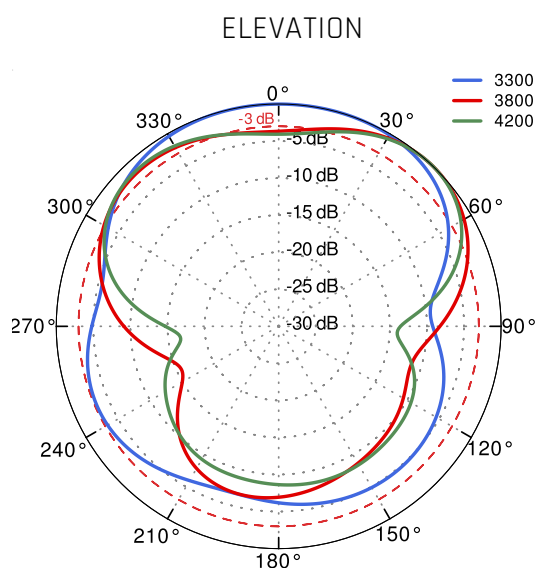
5G/LTE From 617MHz to 960MHz



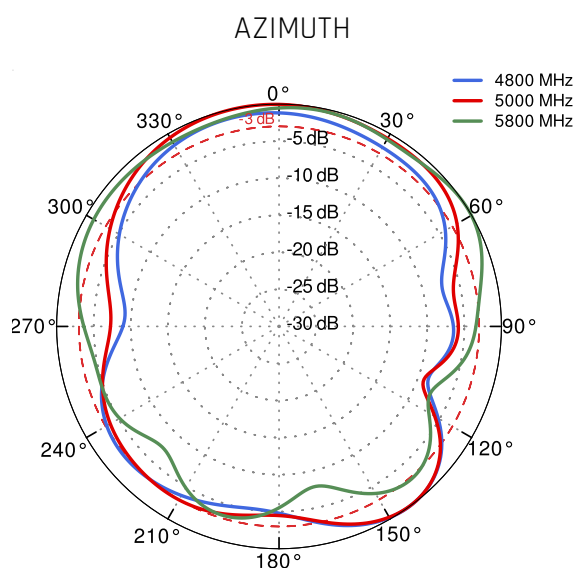
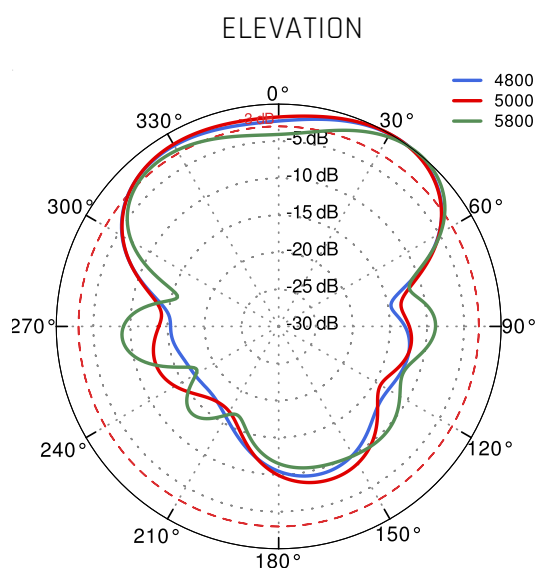
5G/LTE From 1.71GHz to 2.5GHz



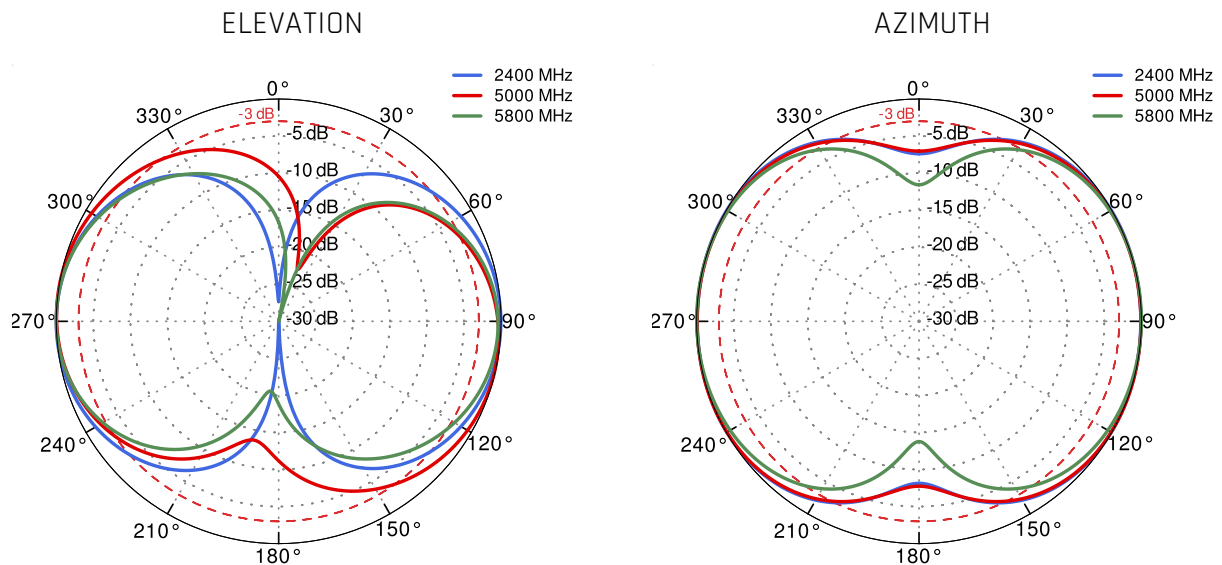
5G/LTE From 3.3GHz to 4.2GHz



5G/LTE From 4.8GHz to 5.8GHz



Wi-Fi From 2.4 GHz to 5.8 GHz



PORTS

