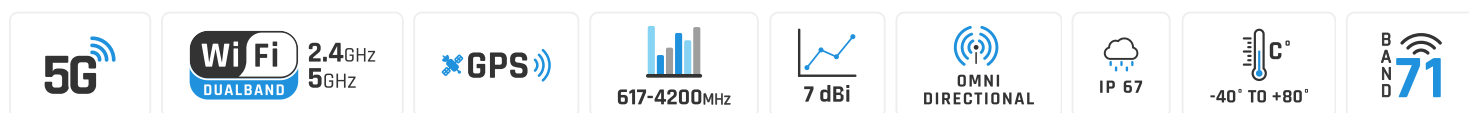


# Industrial Gateway 5G/Wi-Fi/GNSS with PoE out

**INTEGRATED MULTI-BAND LTE & 5G OMNI ANTENNA + WI-FI OMNI ANTENNA + GPS + PLACE TO INSTALL TELTONIKA RUTX50 (ALL-IN-ONE)**

Industrial Gateway dedicated to use with the Teltonika RUTX50 router is an efficient external industrial gateway for professional applications. Gateway has built-in omnidirectional 5G/LTE, Wi-Fi and GNSS antennas. The device can be powered from the AC power grid, as well as powered via PoE 802.3af/at (it can be powered from only one power source at the same time). When powered from the AC network, the device additionally has an active PoE 802.3af/at output power port to power the external LoRaWAN gateway. The gateway also has a built-in converter from active PoE 802.3af to passive PoE required for the RUTX50 router.



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



ANTENNA **PERFECTLY MATCHED** WITH  
THE ROUTER



**802.3AF/AT** POE SUPPORT



MADE IN **EUROPE**



## 5G ANTENNA SPECIFICATION

FREQUENCY	617 - 960 MHz 1.7 - 2.7 GHz 3.3 - 4.3 GHz
GAIN	617 - 960 MHz : 2 dBi 1.7 - 2.7 GHz : 4 dBi 3.3 - 4.3 GHz : 4.5 dBi
SUPPORTED LTE BANDS	1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 48, 49, 52, 53, 65, 66, 67, 68, 69, 71, 85, 103, 1067, 18, 19, 20, 22, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 48, 49, 52, 53, 65, 66, 67, 68, 69, 71, 85, 103, n77, n78, n80, n81, n82, n83, n84, n86, n89, n90, n95, n97, n98, n100, n101
SUPPORTED 5G BANDS	n1, n2, n3, n5, n7, n8, n12, n13, n14, n18, n20, n25, n26, n28, n29, n30, n34, n38, n39, n40, n41, n48, n53, n65, n66, n67, n71, n77, n78, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256
VSWR	<2.00, max <2.50
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω

## WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.4 - 2.5 GHz 4.7 - 6 GHz
GAIN	2.4 - 2.5 GHz : 6 dBi 4.7 - 6 GHz : 7.5 dBi
VSWR	<1.70, max <2.00
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω

## AC POWER SUPPLY ELECTRICAL INPUT SPECIFICATION

INPUT VOLTAGE	85 ~ 264VAC
INPUT FREQUENCY	47 ~ 63Hz
INPUT CURRENT	0.95A/115VAC 0.56A/230VAC
INRUSH CURRENT	45A/230VAC
AC LEAKAGE CURRENT	<0.75mA / 240VAC
EFFICIENCY	90%

## POE IN/POE OUT SPECIFICATION

POE IN	802.3af/at for router RUTX50 (built-in converter from active PoE 802.3af to passive PoE)
POE OUT	802.3af/at for external LoRaWAN gateway Notice: PoE out only works if the device is powered from the AC network. If the device is powered by PoE In, the PoE Out port does not provide power to the external LoRaWAN gateway
ETHERNET PORTS	1x RJ-45 for PoE In/ethernet + 1x RJ-45 for PoE Out

## MECHANICAL SPECIFICATION

MATERIALS	ABS, aluminum, PTFE
CONNECTOR TYPE	2x RJ-45 1x AC power socket
INGRESS PROTECTION	IP67
DIMENSIONS	272 x 272 x 342 mm 10.7 x 10.7 x 13.46 inch
WEIGHT	3.5 kg 7.72 lbs
OPERATING TEMPERATURE	From -40°C to 75°C From -40°F to 167°F

## FREQUENCY BANDS

**LTE / 4G**

	1	2	3	4	5	7	8	
	9	10	12	13	14	17	18	
	19	20	22	25	26	27	28	
617 MHz	29	30	33	34	35	36	37	4300 MHz
	38	39	40	41	42	43	44	
	48	49	52	53	65	66	67	
	68	69	71	85	103	106		

**5G**

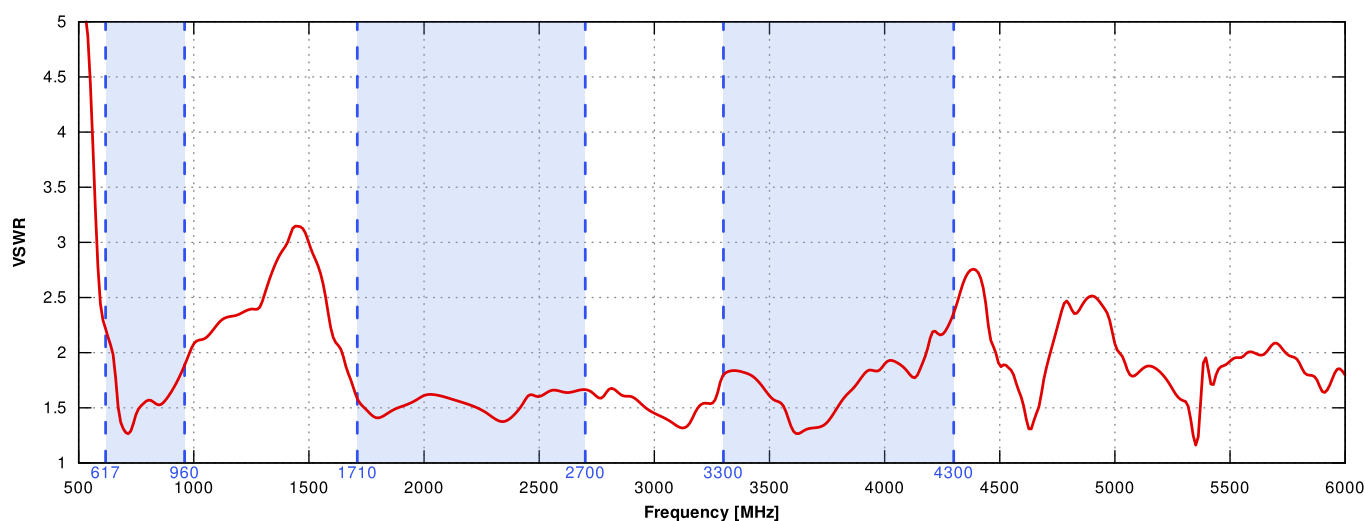
	n1	n2	n3	n5	n7	n8	n12	
	n13	n14	n18	n20	n25	n26	n28	
	n29	n30	n34	n38	n39	n40	n41	
617 MHz	n48	n53	n65	n66	n67	n71	n77	4300 MHz
	n78	n80	n81	n82	n83	n84	n85	
	n86	n89	n90	n95	n97	n98	n100	
	n101	n256						

## COMPATIBLE ROUTERS

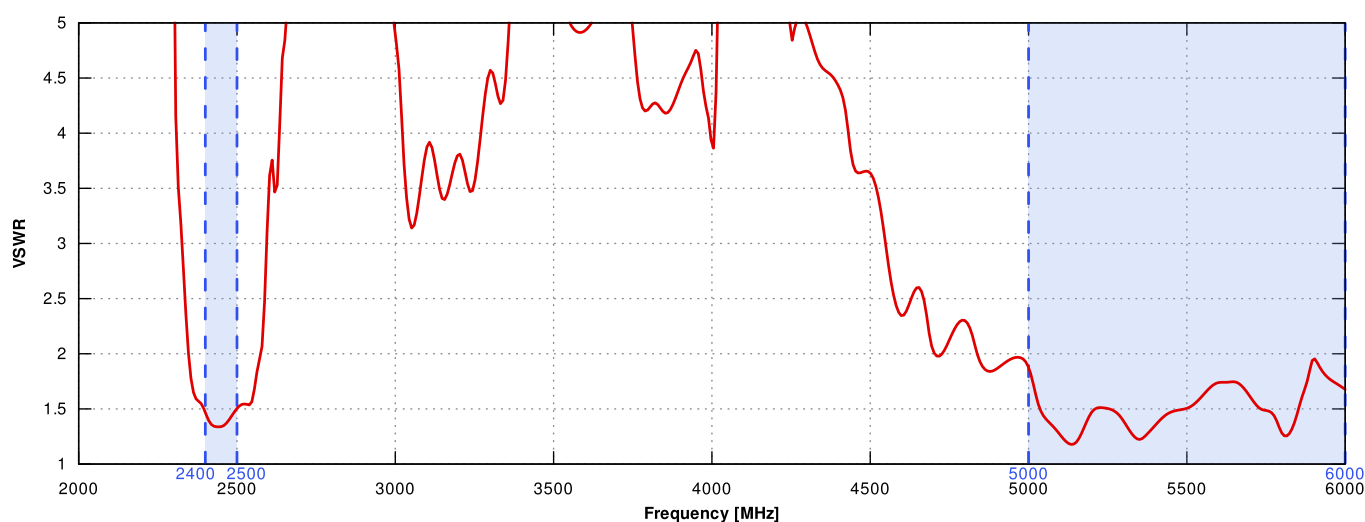
VARIANT: - \_\_\_\_\_

## PLOTS

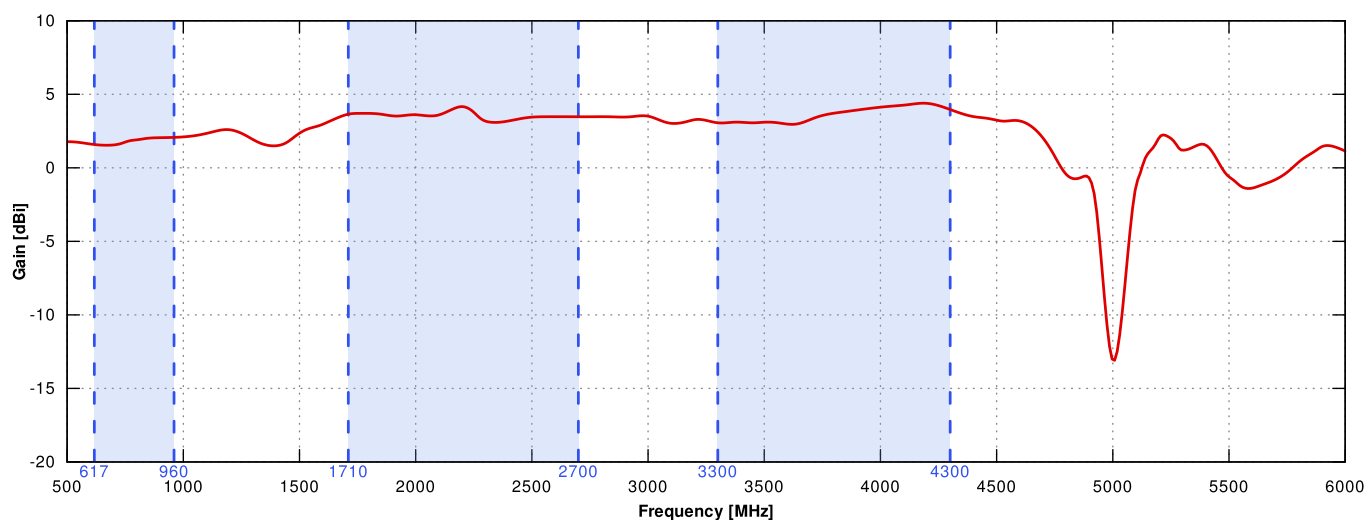
VSWR for 5G/LTE antenna



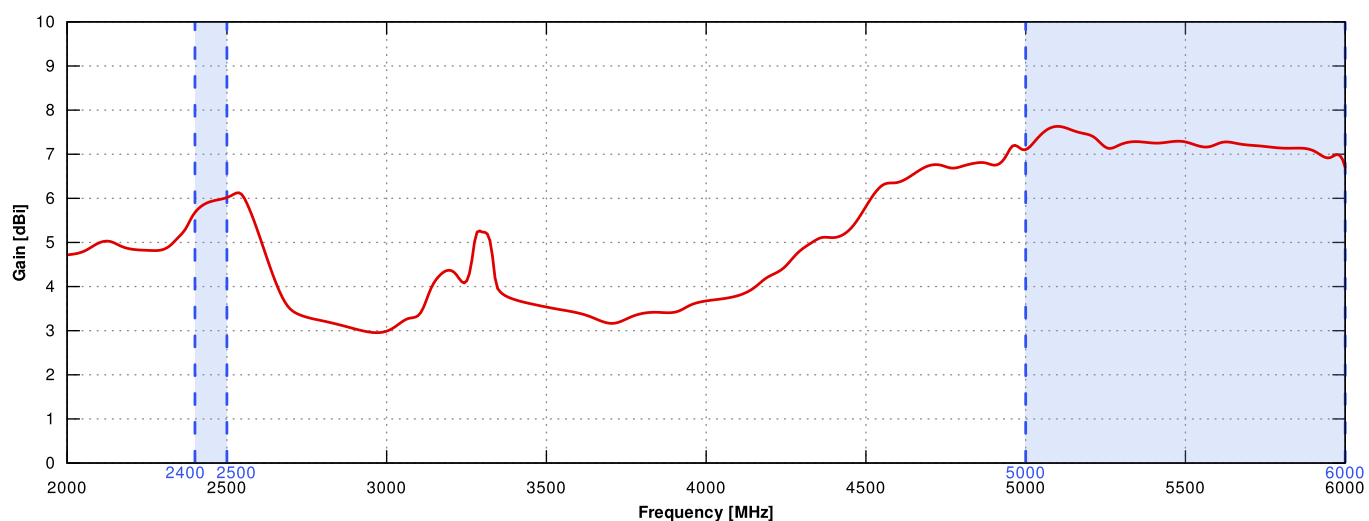
VSWR for Wi-Fi antenna



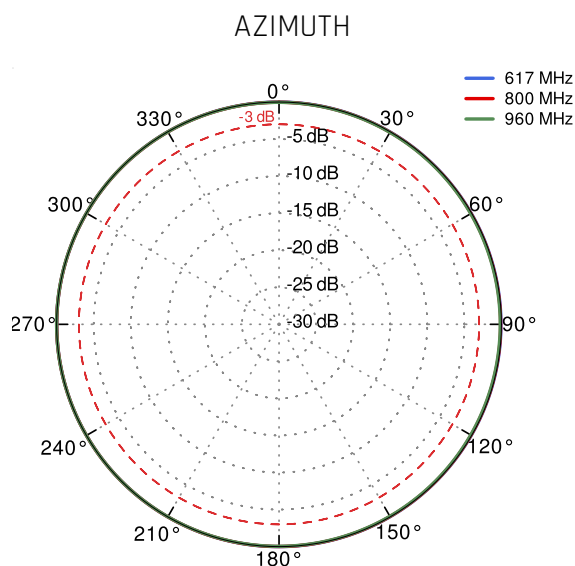
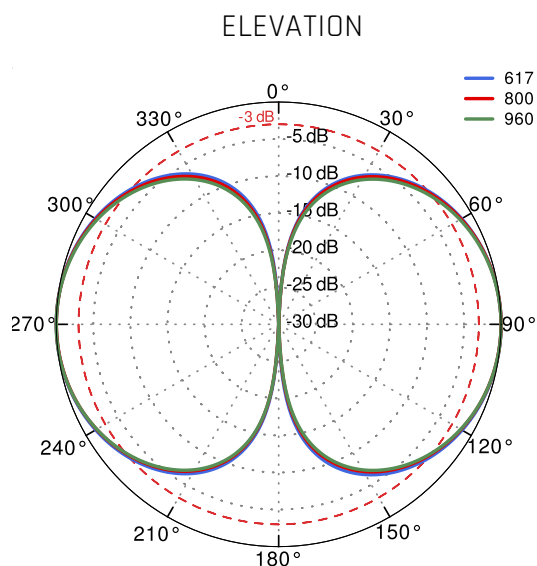
## Gain for 5G/LTE antenna



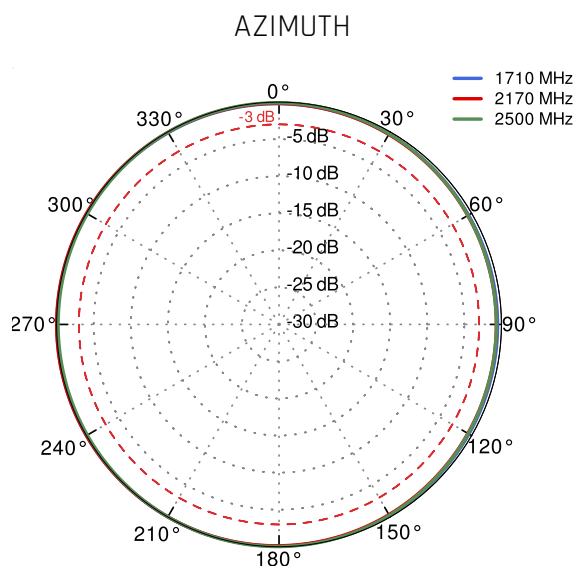
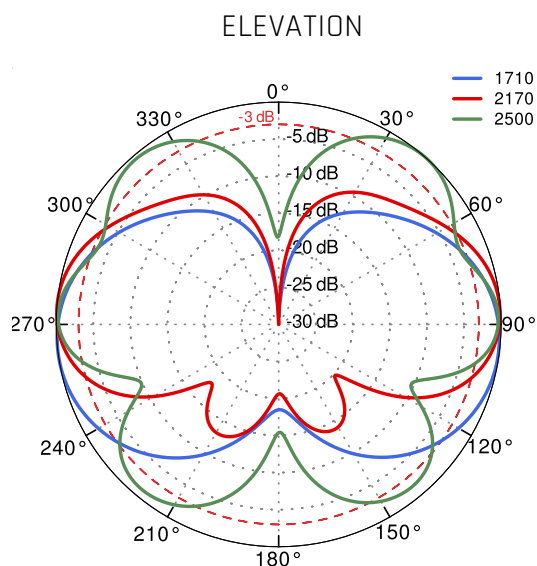
## Gain for Wi-Fi antenna



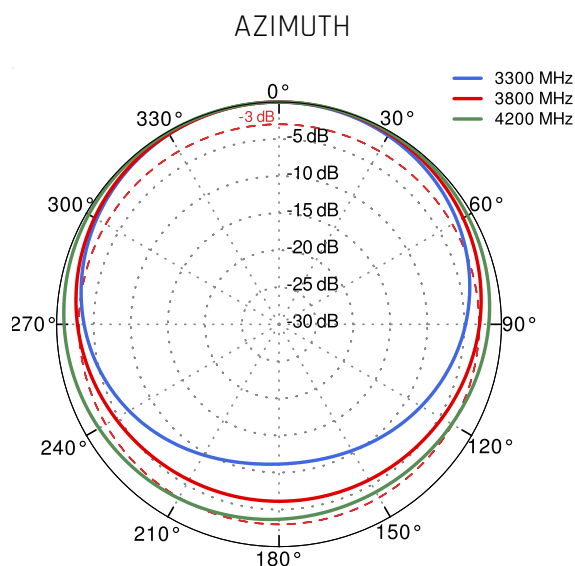
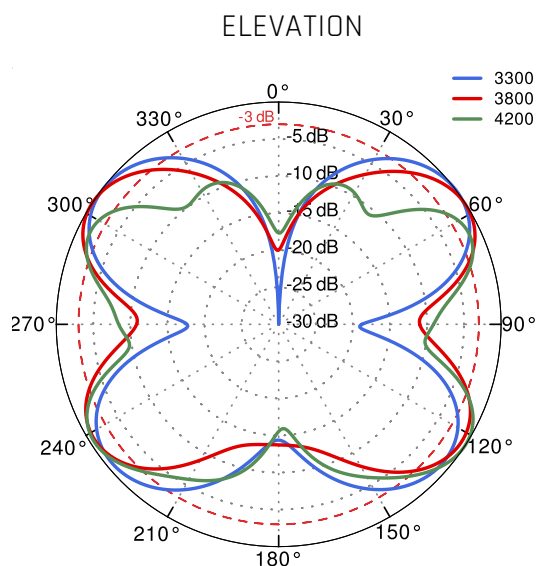
## 5G/LTE from 617MHz to 960MHz



## 5G/LTE from 1.71GHz to 2.5GHz



## 5G/LTE from 3.3GHz to 4.2GHz



## Wi-Fi 2.4 GHz and 5 GHz

