

# QuMax Omni for Teltonika

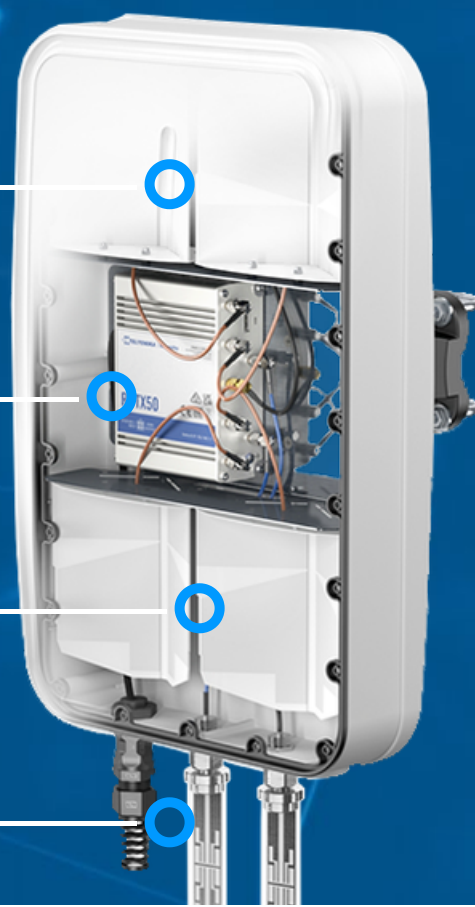
## RUTX50/RUTM51

### INTEGRATED MULTI-BAND LTE & 5G OMNI ANTENNA + Wi-Fi ANTENNA + GPS + PLACE TO INSTALL TELTONIKA RUTX50/RUTM51 (ALL-IN-ONE)

QuMax Omni is a 5G omnidirectional MIMO 4x4 antenna for the Teltonika RUTX50 and RUTM51 router. The antenna covers a wide frequency range from 617MHz (Band71) to 3.8GHz. Apart from 5G, also Wi-Fi and GPS antennas are included, which means you get an all-in-one solution for your RUTX50.

Additional router compartment inside the housing creates a variety of new outdoor (IP67) scenarios. It is recommended for moving applications, like trains, buses, yachts or campers, but also to improve signal quality in rural areas.

NOTE! The antenna doesn't support B32 band and n77 above 3800 MHz band!



## 5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.617 - 0.96 GHz 1.7 - 2.2 GHz 2.2 - 2.7 GHz 3.3 - 3.8 GHz
GAIN	0.617 - 0.96 GHz: 3 dBi 1.7 - 2.2 GHz: 3,5 dBi 2.3 - 2.7 GHz: 3,5 dBi 3.3 - 3.8 GHz: 4 dBi
SUPPORTED LTE BANDS	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, 106
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, n78, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256
VSWR	<1.80, max <2.00
BEAMWIDTH	360°/35° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω

## WI-FI ANTENNA SPECIFICATION

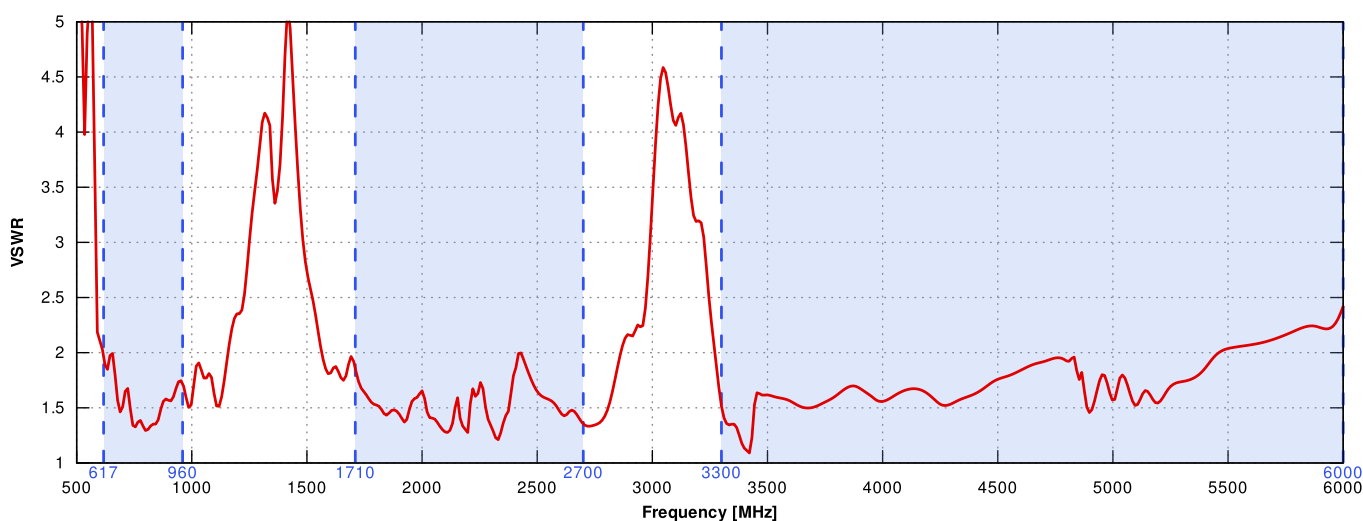
FREQUENCY	2.40 - 2.50 GHz 4.70 - 6.00 GHz
GAIN	2.40 - 2.50 GHz : 6 dBi 4.70 - 6.00 GHz : 7 dBi
VSWR	<1.70, max <2.00
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Verical
IMPEDANCE	50 $\Omega$

## MECHANICAL SPECIFICATION

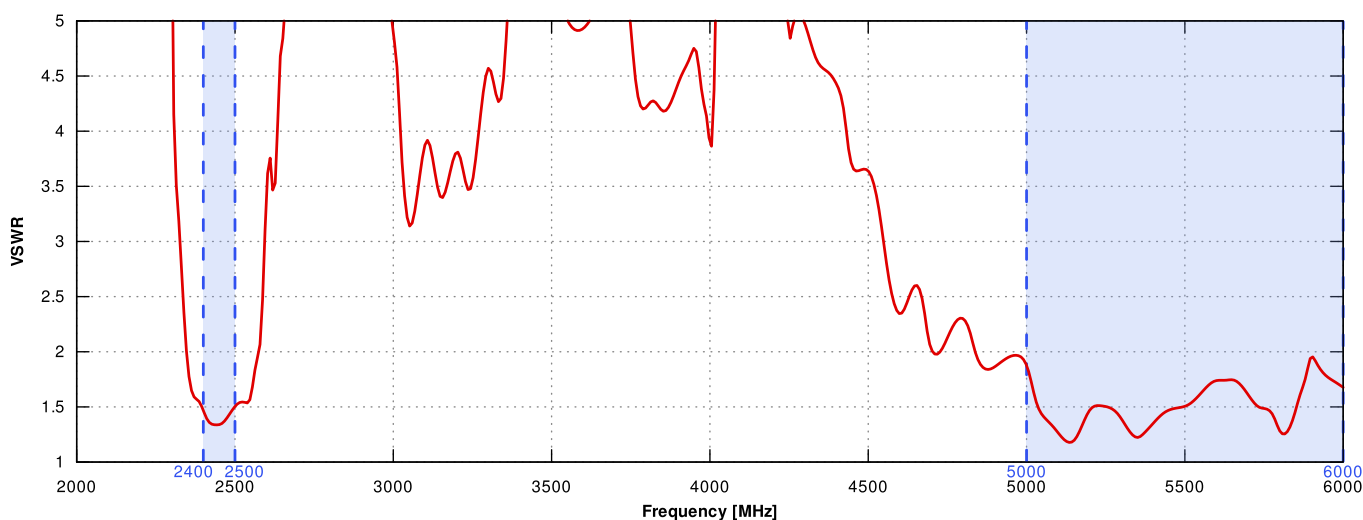
MATERIALS	ABS, aluminum, PTFE, Fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP67
DIMENSIONS	486.0 x 292.2 x 105.6 mm 19.13 x 11.50 x 4.16 inch
WEIGHT	2.5 kg 5.51 lbs
OPERATING TEMPERATURE	From -40°C to 70°C From -40°F to 167°F
MAST DIAMETER	25-60mm 0.98-2.36 inch
INCLUDED BRACKET WIND SURVIVAL	≤220 km/h

## PLOTS

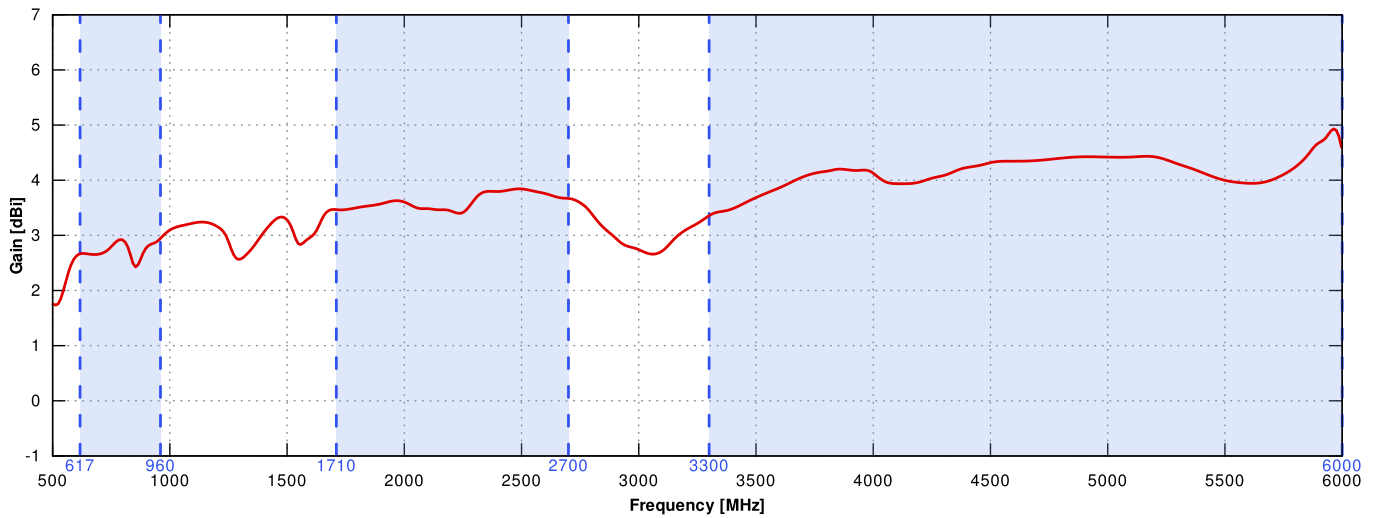
VSWR for LTE antenna 



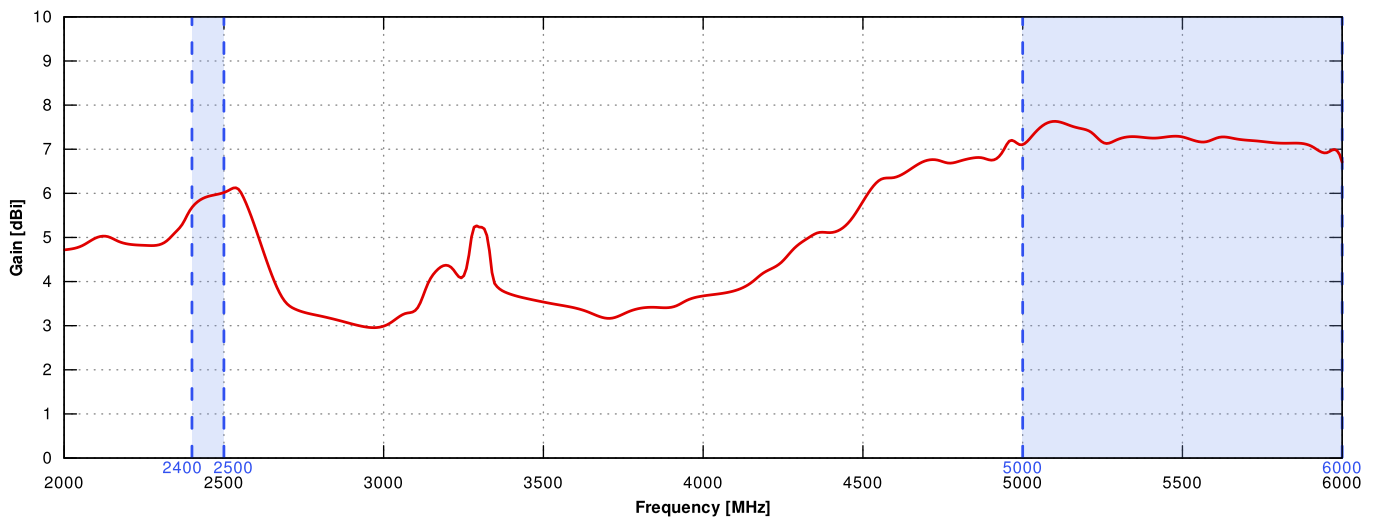
VSWR for Wi-Fi antenna 



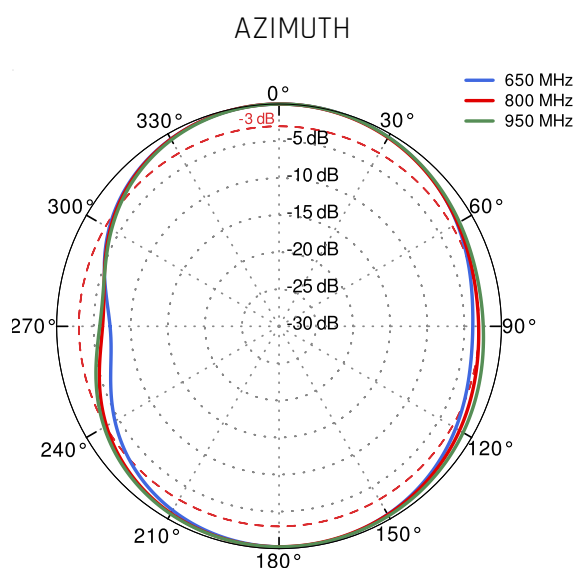
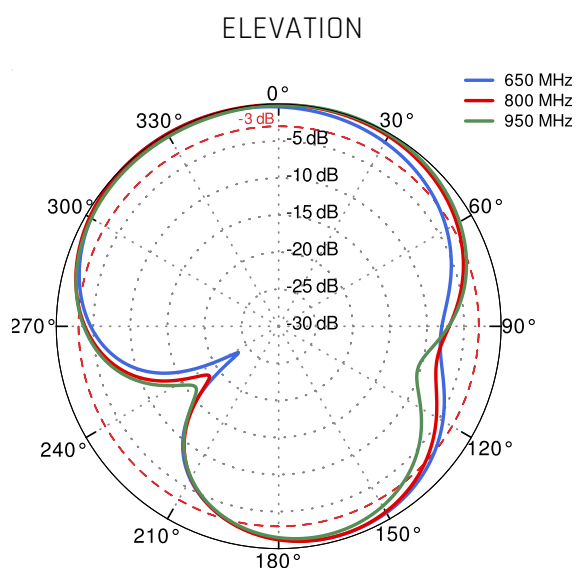
## Gain for LTE antenna



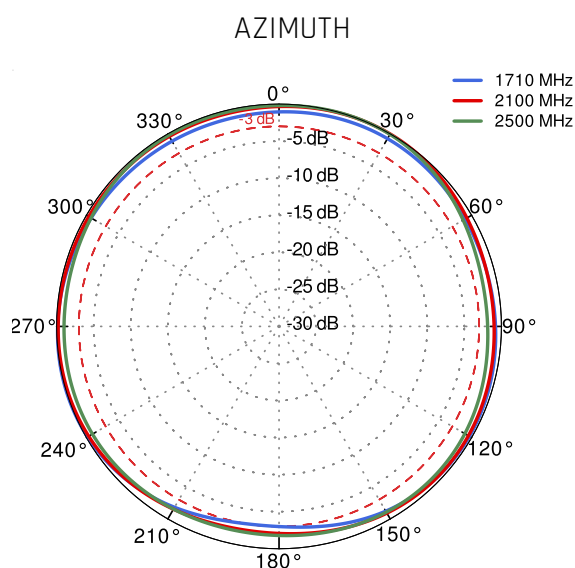
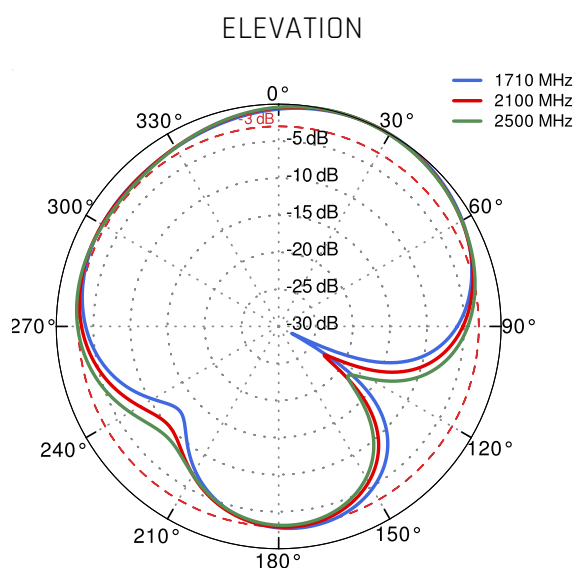
## Gain for Wi-Fi antenna



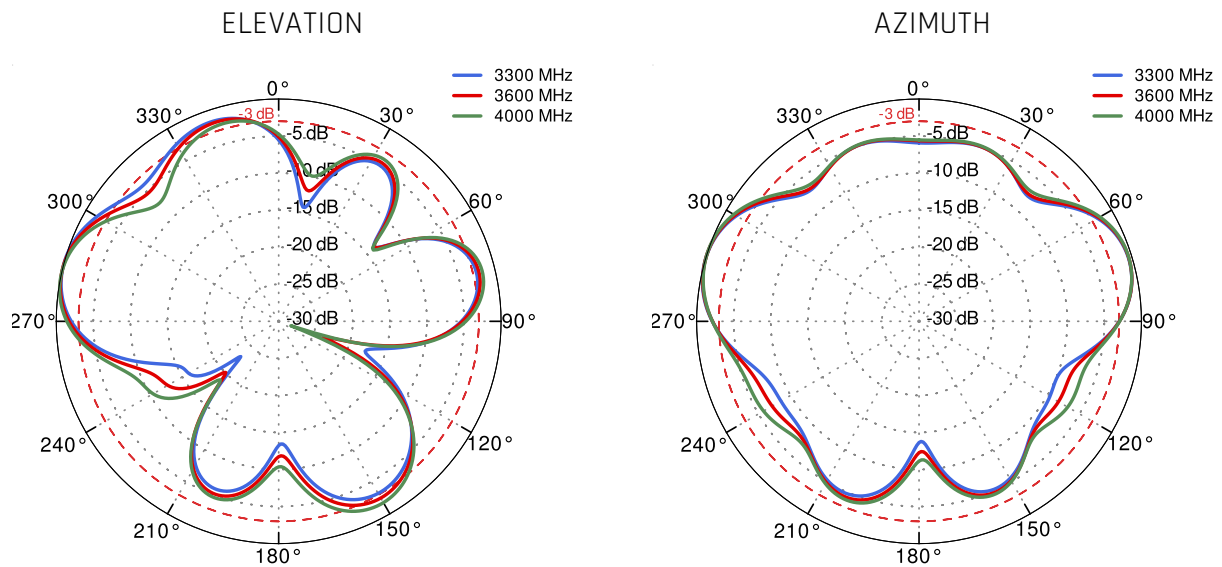
## 5G/LTE from 650MHz to 950MHz



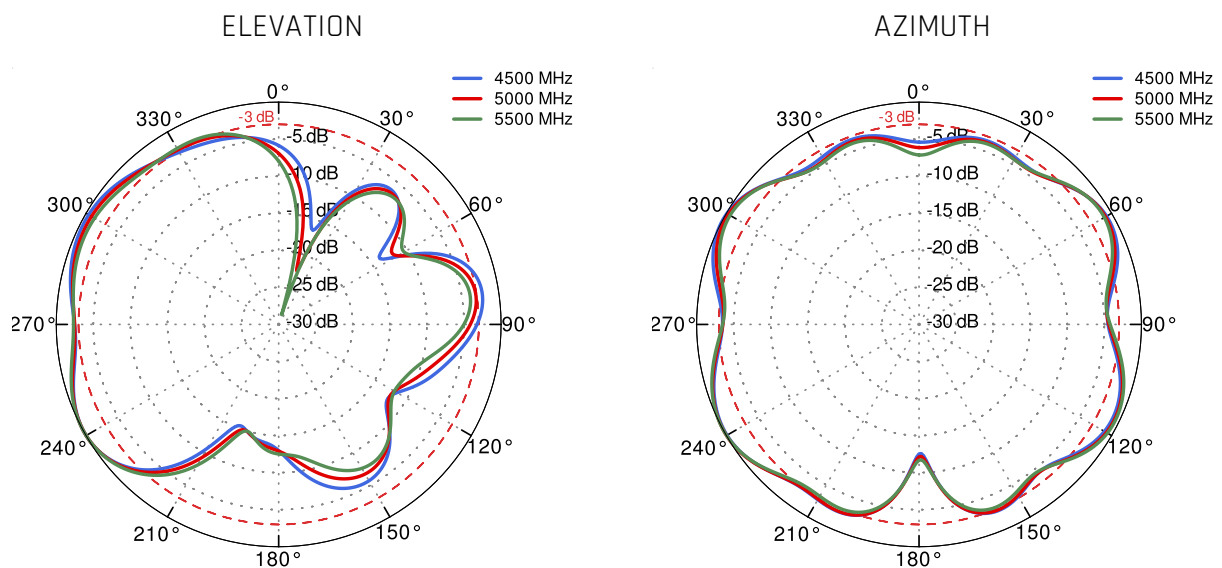
## 5G/LTE from 1.71GHz to 2.5GHz



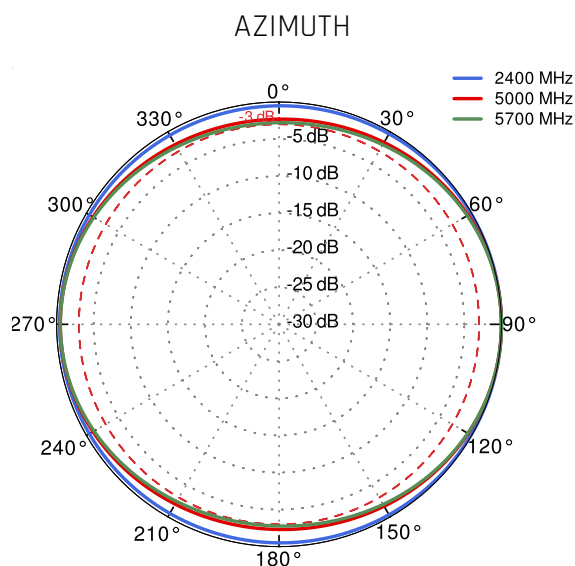
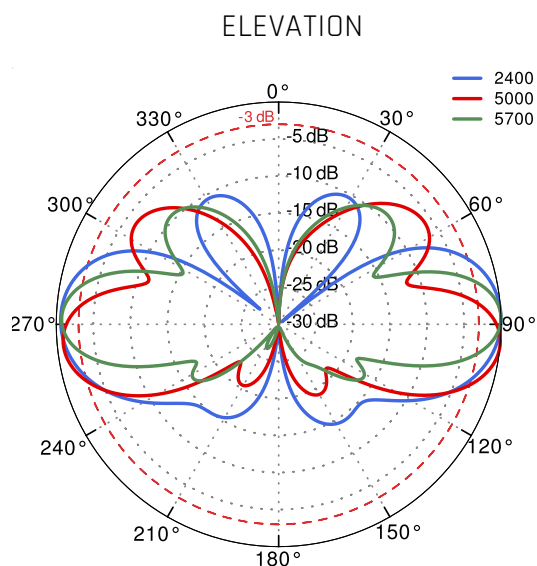
## 5G/LTE from 3.3GHz to 4.0GHz



## 5G/LTE from 4.5GHz to 5.5GHz



## Wi-Fi 2.4GHz and 5GHz



## DIMENSIONS

