

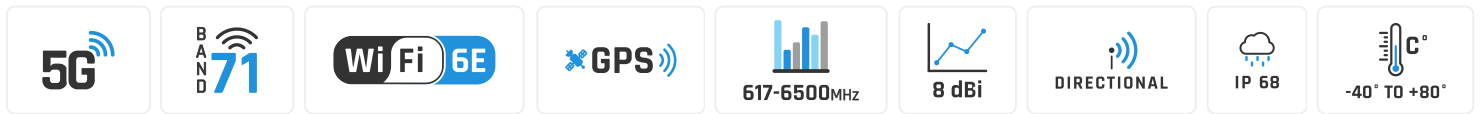
QuMax for Teltonika RUTM52

INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + 5G OMNI ANTENNA + WI-FI 6E OMNI ANTENNA + GPS + PLACE TO INSTALL TELTONIKA RUTM52 (ALL-IN-ONE)

QuMax for RUTM52 is a high performance directional antenna designed for use in a variety of wireless communication applications. This all-in-one product consists of multi-band directional 5G, omni 5G, Wi-Fi and GPS antennas integrated in IP68 enclosure. It offers 8 dBi gain and wide beamwidth, which makes it suitable for use in both urban and rural environments.

Combining QuMax with RUTM52 inside the antenna housing gives you complete outdoor solution with multiple use scenarios such as transportation public, energy, mining IoT and more.

Wi-Fi 6E support!



DIRECTIONAL 5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.617 - 1.0 GHz 1.0 - 3.08 GHz 3.3 - 5.0 GHz 5.0 - 6.5 GHz
MAX. GAIN	0.617 - 1.0 GHz : 6 dBi 1.0 - 3.08 GHz : 8 dBi 3.3 - 5.0 GHz : 6.8 dBi 5.0 - 6.5 GHz : 5.5 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, 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, n102, n106, n109, n110, n250, n251, n252, n253, n254, n255, n256
VSWR	<2.00, max <3.00
BEAMWIDTH	80°/80° ±15°
POLARIZATION	X (+-45degrees)
IMPEDANCE	50 Ω

OMNI 5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.6 - 1.4 GHz 1.5 - 3.0 GHz 3.0 - 5.0 GHz 5.0 - 6.35 GHz
MAX. GAIN	0.6 - 1.4 GHz : 2.6 dBi 1.5 - 3.0 GHz : 4.2 dBi 3.0 - 5.0 GHz : 4.4 dBi 5.0 - 6.35 GHz : 2.1 dBi
SUPPORTED LTE BANDS	1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 22, 23, 24, 25, 26, 27, 28, 29, 30, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 46, 47, 48, 49, 52, 53, 54, 65, 66, 67, 68, 69, 70, 71, 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, n53, n54, n65, n66, n67, n68, n70, n71, n77, n78, n79, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n99, n100, n101, n105, n106, n250, n251, n252, n253, n254, n255, n256
VSWR	<2.00, max <3.00
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω

WI-FI ANTENNA SPECIFICATION

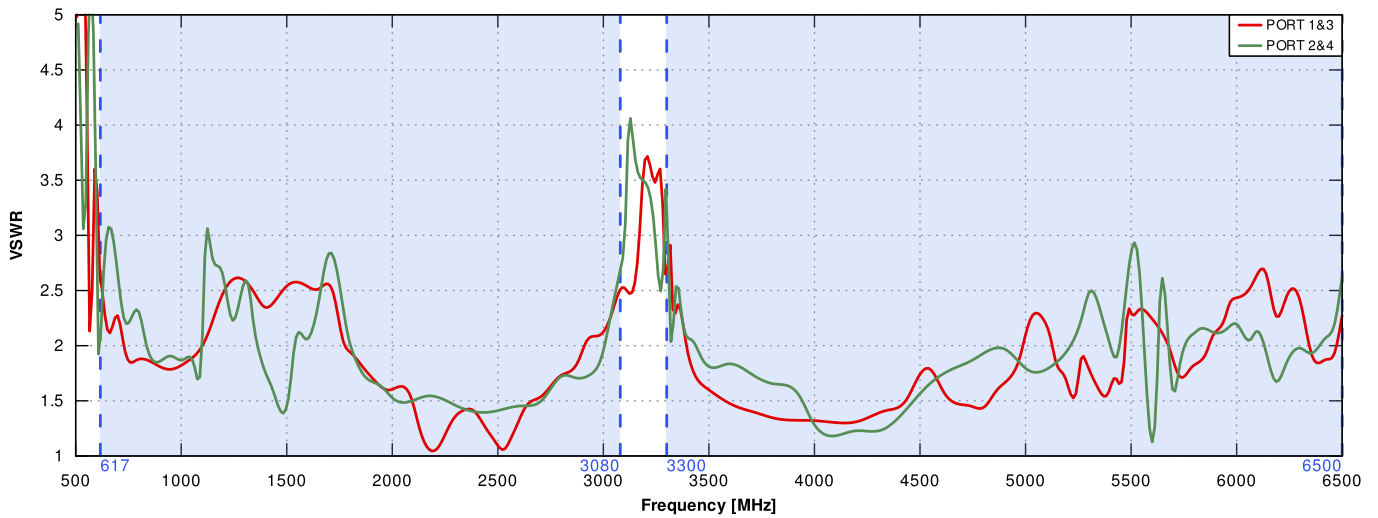
FREQUENCY	2.40 - 2.50 GHz 5.0 - 7.125 GHz
MAX. GAIN	2.40 - 2.50 GHz : 6 dBi 5.0 - 7.125 GHz : 7.5 dBi
VSWR	<1.70, max <2.00
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω

MECHANICAL SPECIFICATION

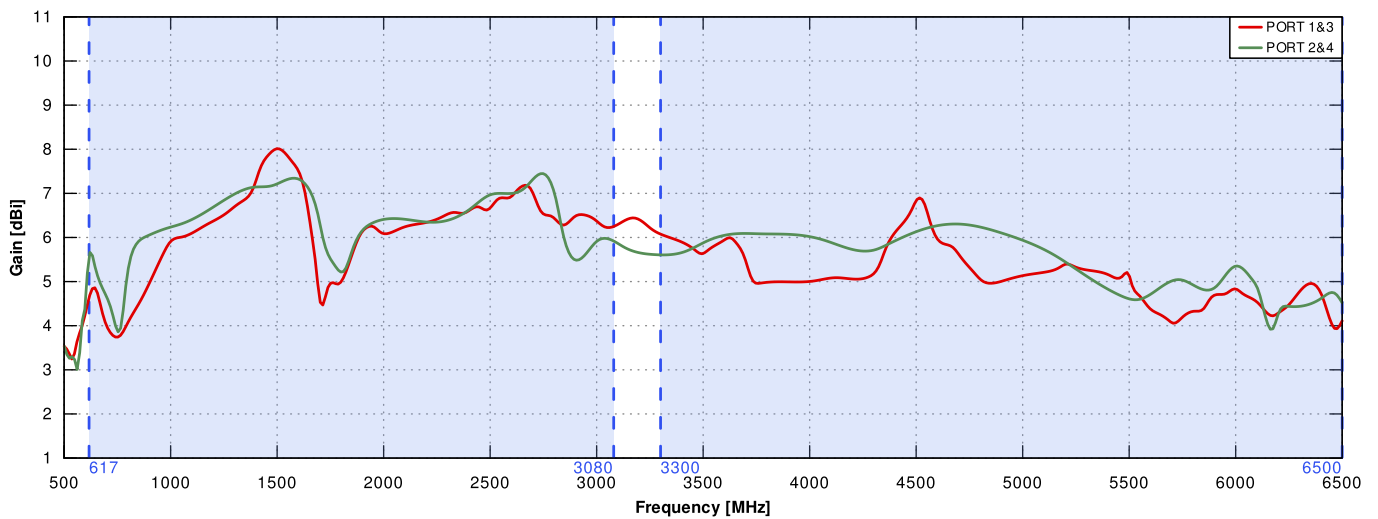
MATERIALS	ABS, aluminum, PTFE, Fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP68
DIMENSIONS	486.0 x 292.2 x 105.6 mm 19.13 x 11.50 x 4.16 inch
WEIGHT	2.8 kg 6.17 lbs
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F
ENCLOSURE RECOMMENDED TIGHTENING TORQUE	0.6 - 0.8 Nm
MAST DIAMETER	25-66mm 0.98-2.60 inch

PLOTS

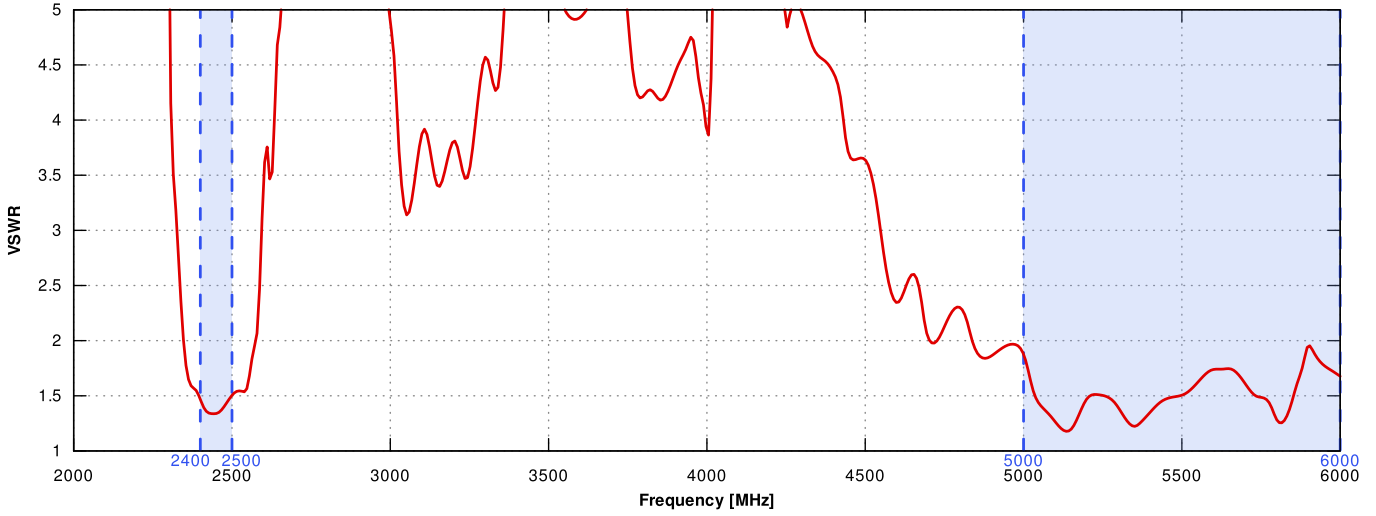
VSWR for directional 5G/LTE antenna



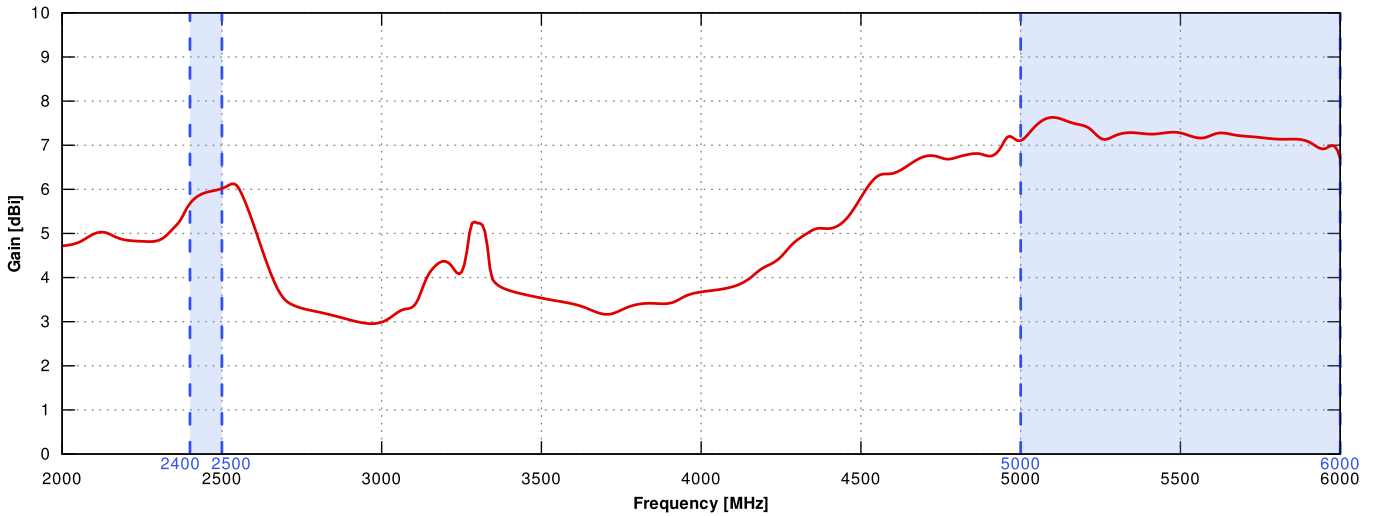
Gain for directional 5G/LTE antenna



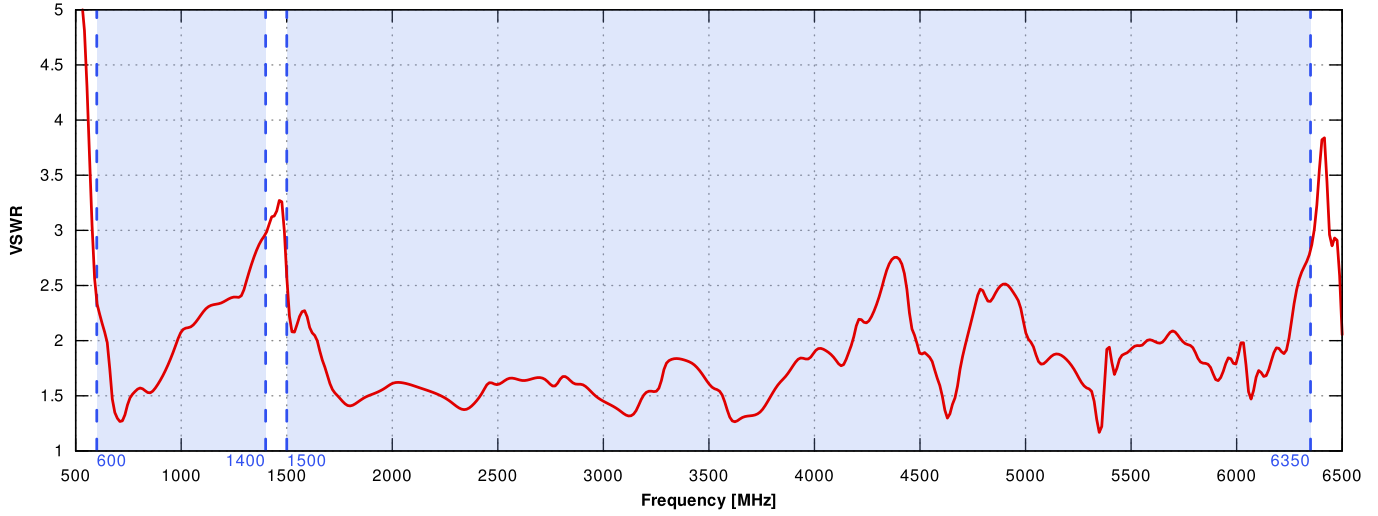
VSWR for Wi-Fi antenna



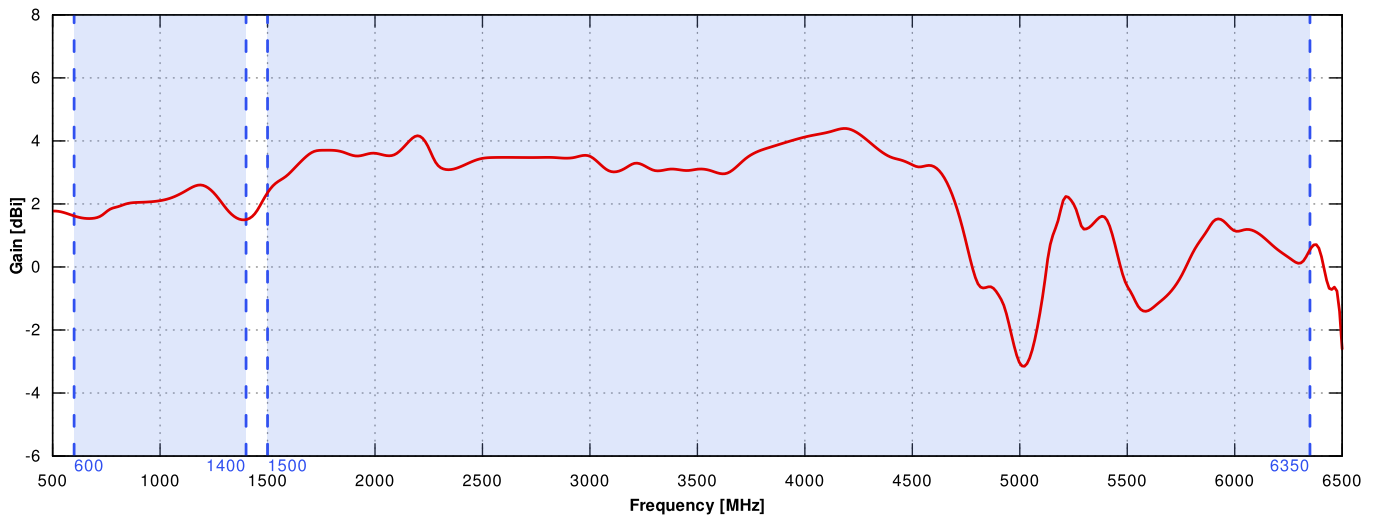
Gain for Wi-Fi antenna



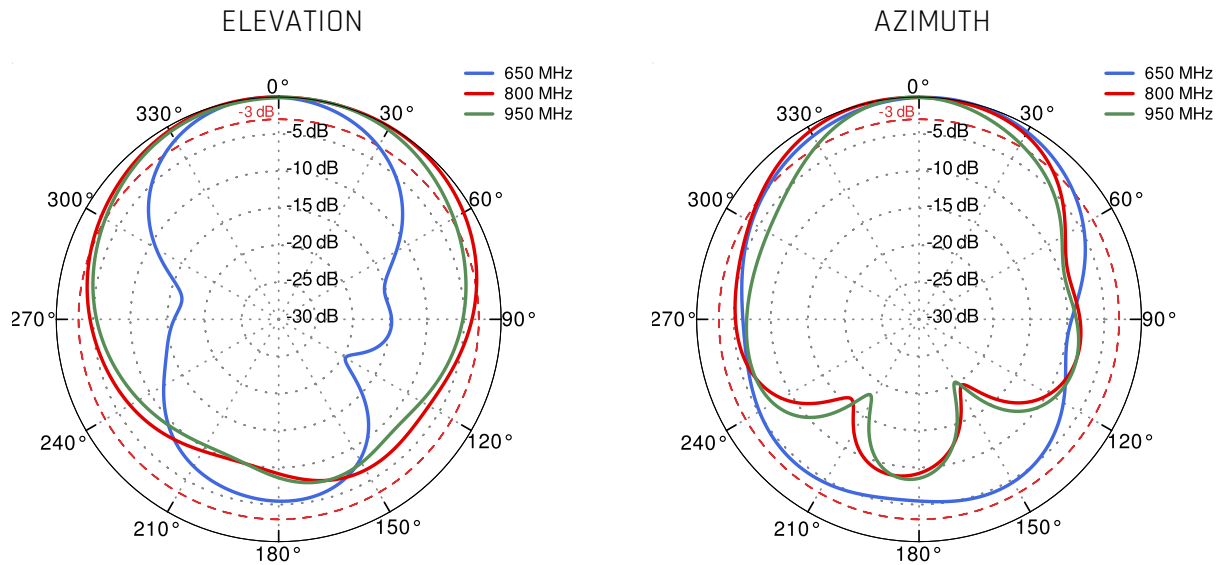
VSWR for omni 5G/LTE antenna



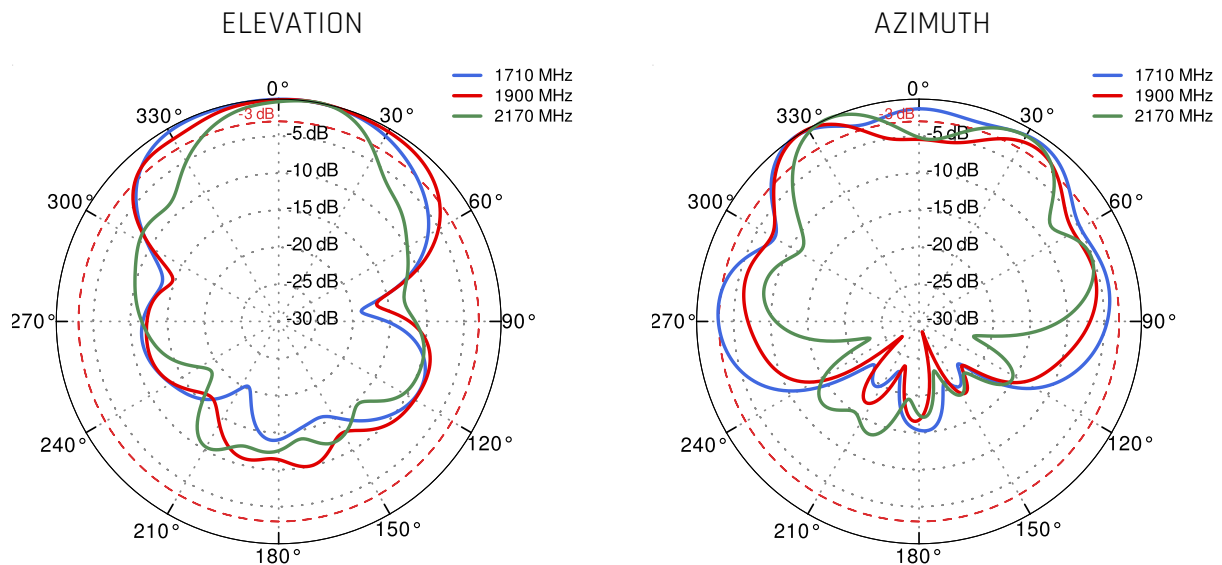
Gain for omni 5G/LTE antenna



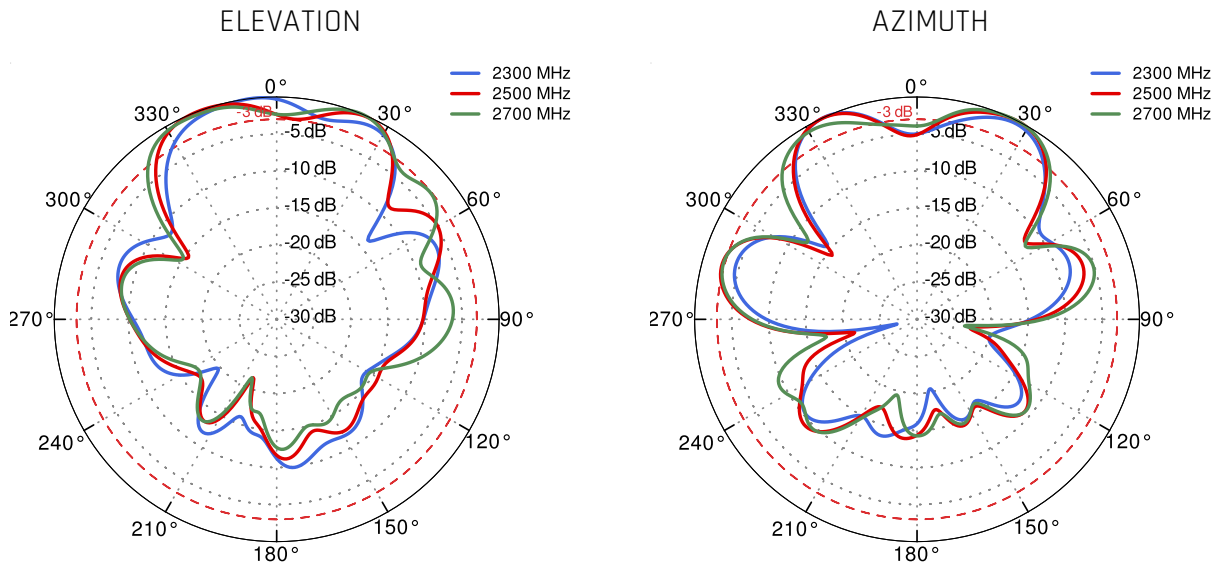
PORT 1&3 - directional 5G/LTE from 650MHz to 950MHz



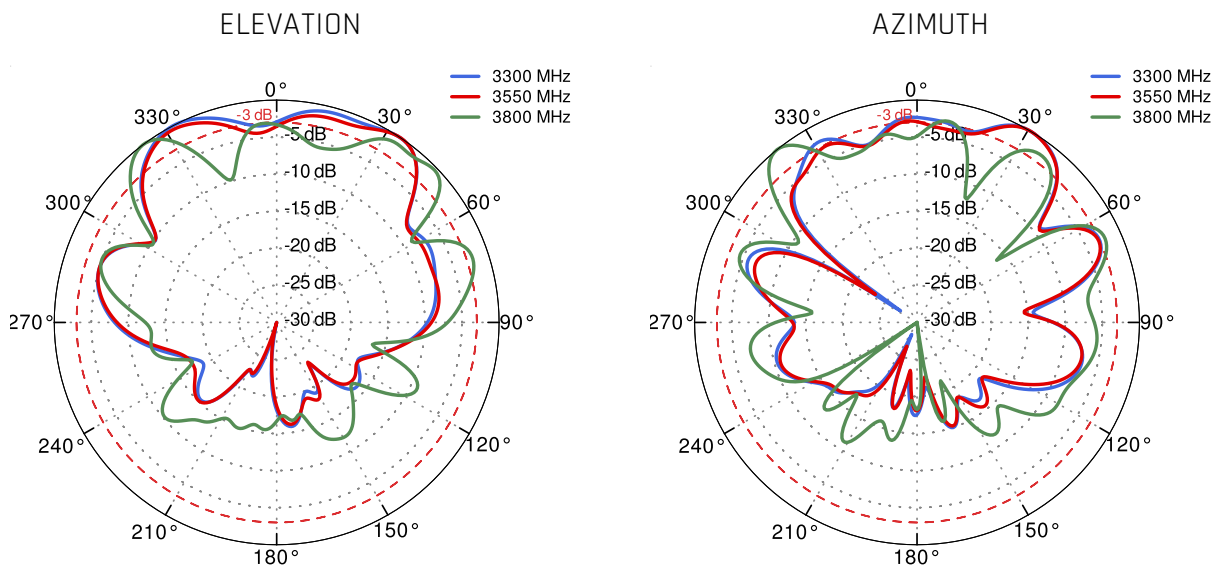
PORT 1&3 - directional 5G/LTE from 1.71GHz to 2.17GHz



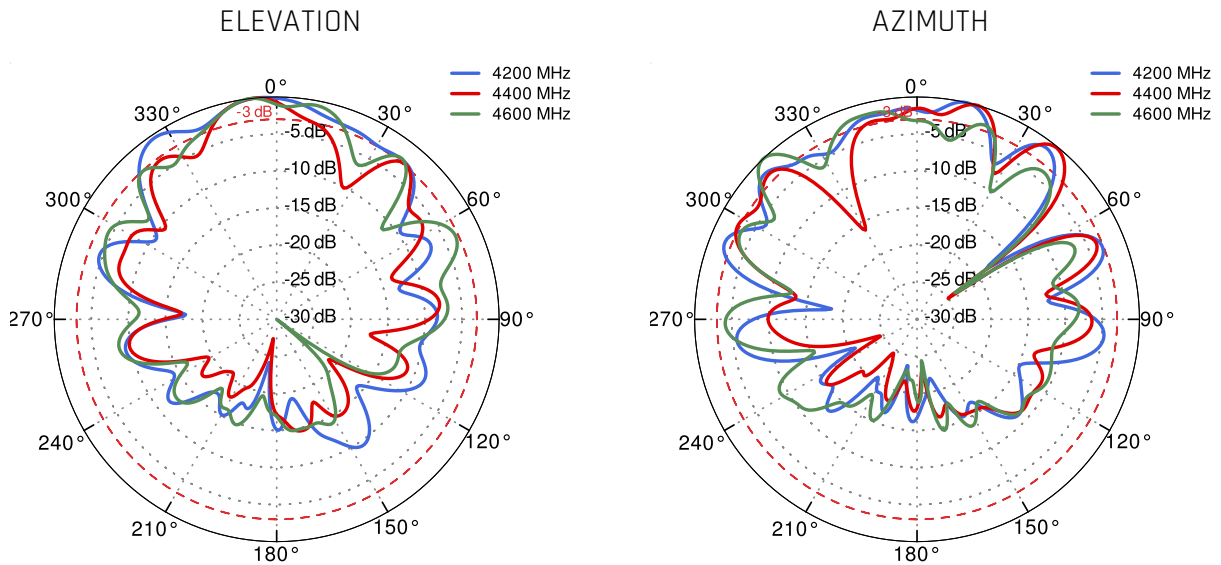
PORT 1&3 - directional 5G/LTE from 2.3GHz to 2.7GHz



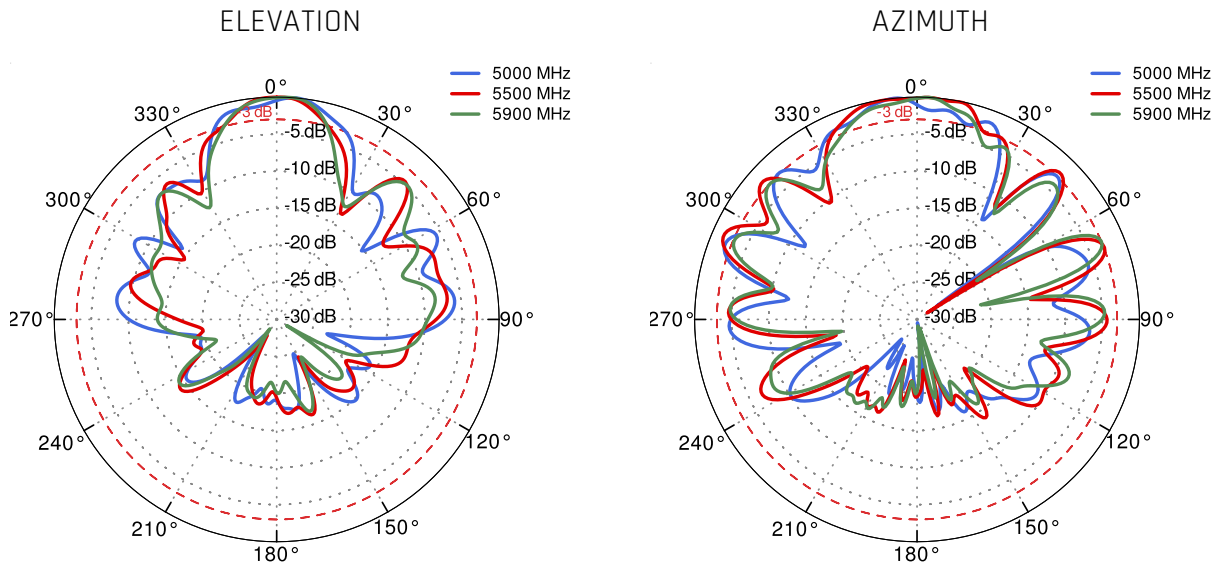
PORT 1&3 - directional 5G/LTE from 3.3GHz to 3.8GHz



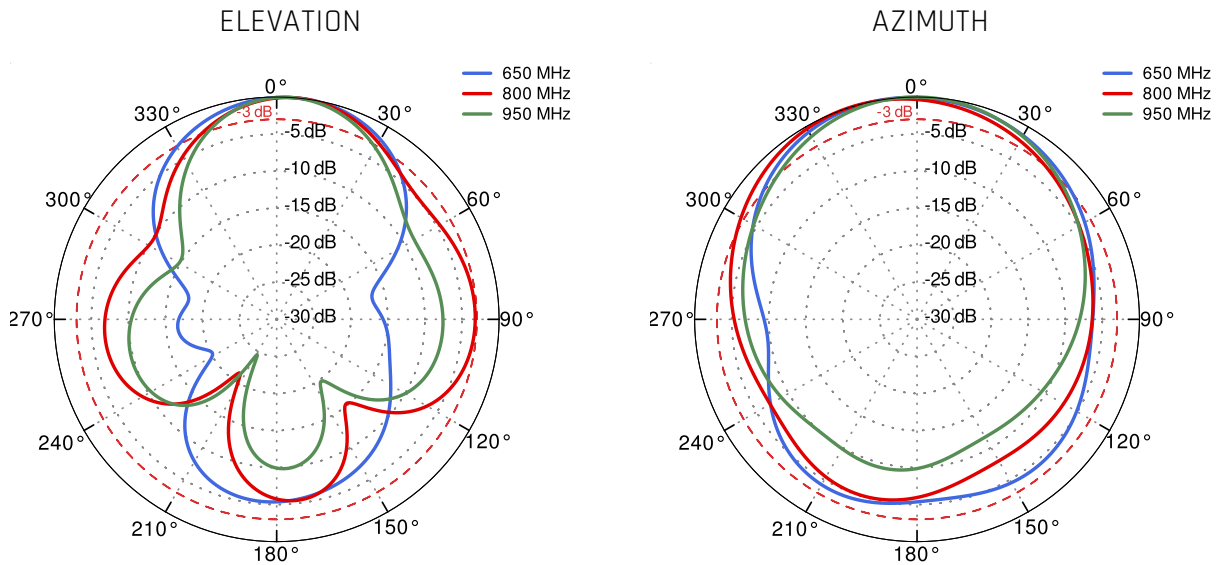
PORT 1&3 - directional 5G/LTE from 4.2GHz to 4.6GHz



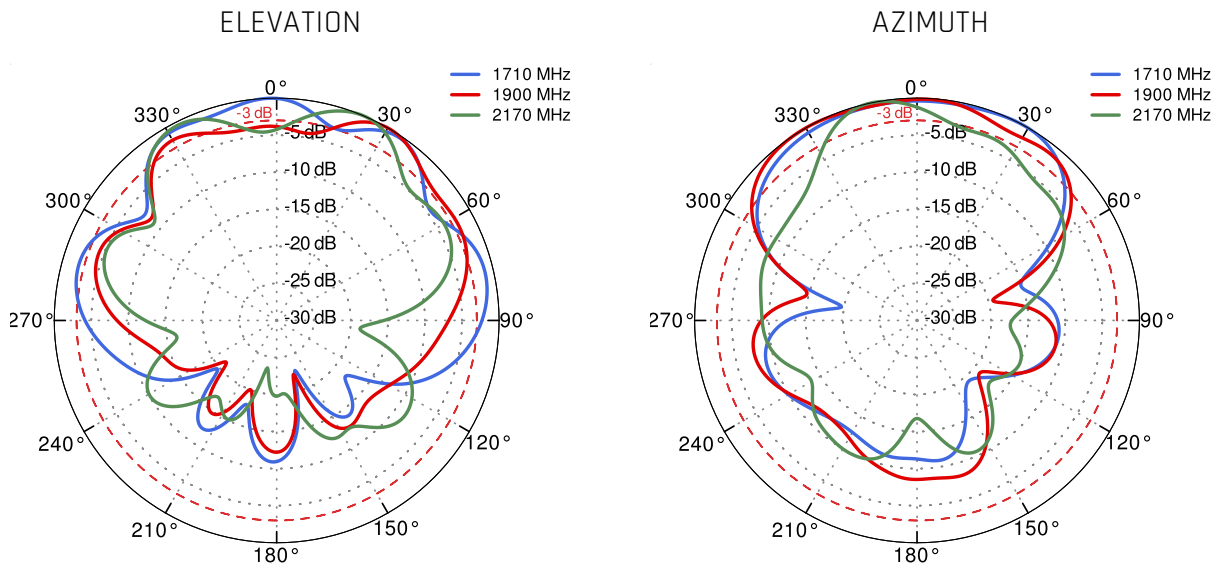
PORT 1&3 - directional 5G/LTE from 5.0GHz to 5.9GHz



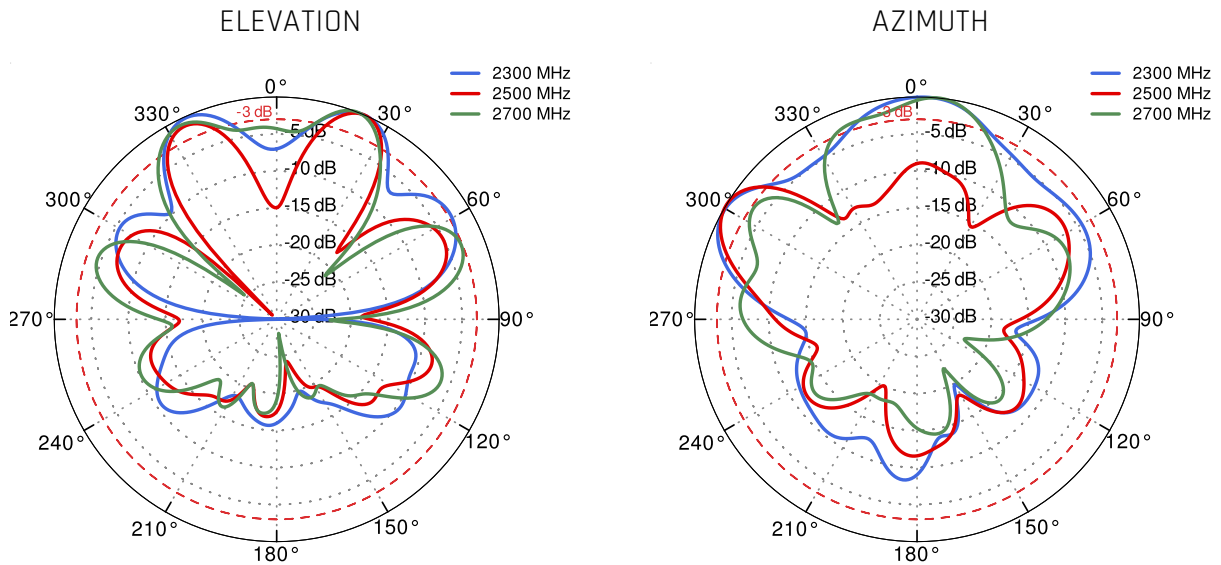
PORT 2&4 - directional 5G/LTE from 650MHz to 950MHz



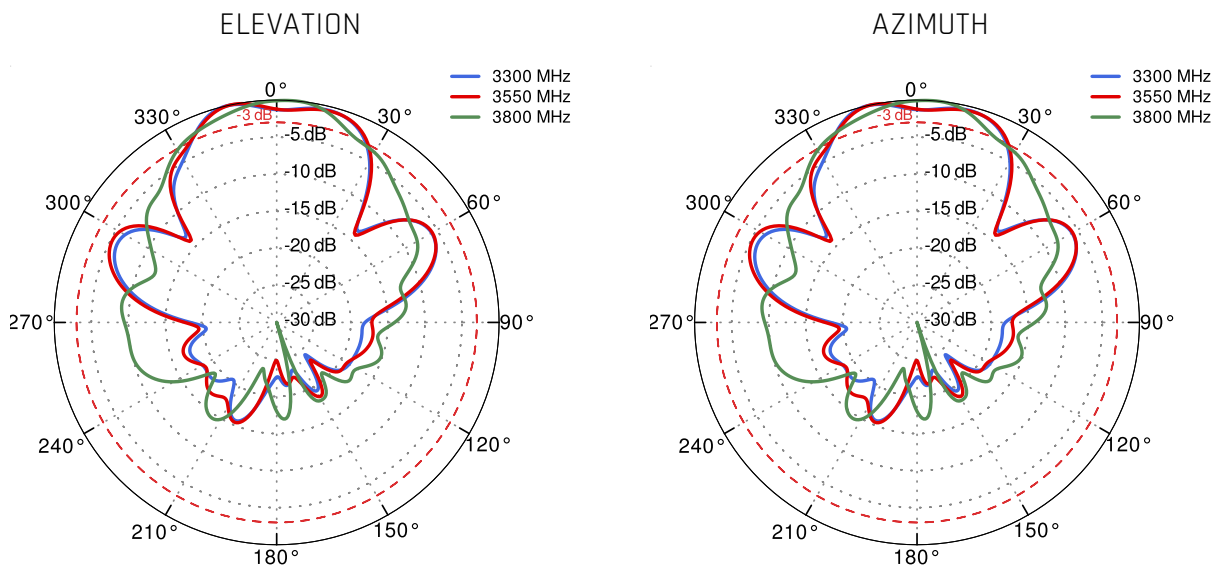
PORT 2&4 - directional 5G/LTE from 1.71GHz to 2.17GHz



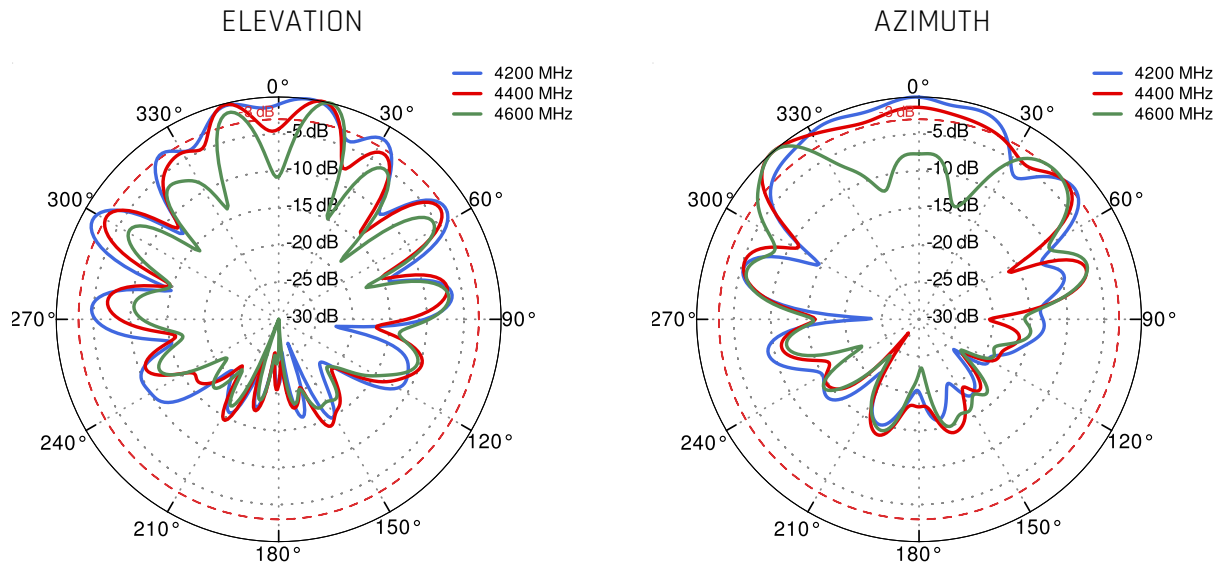
PORT 2&4 - directional 5G/LTE from 2.3GHz to 2.7GHz



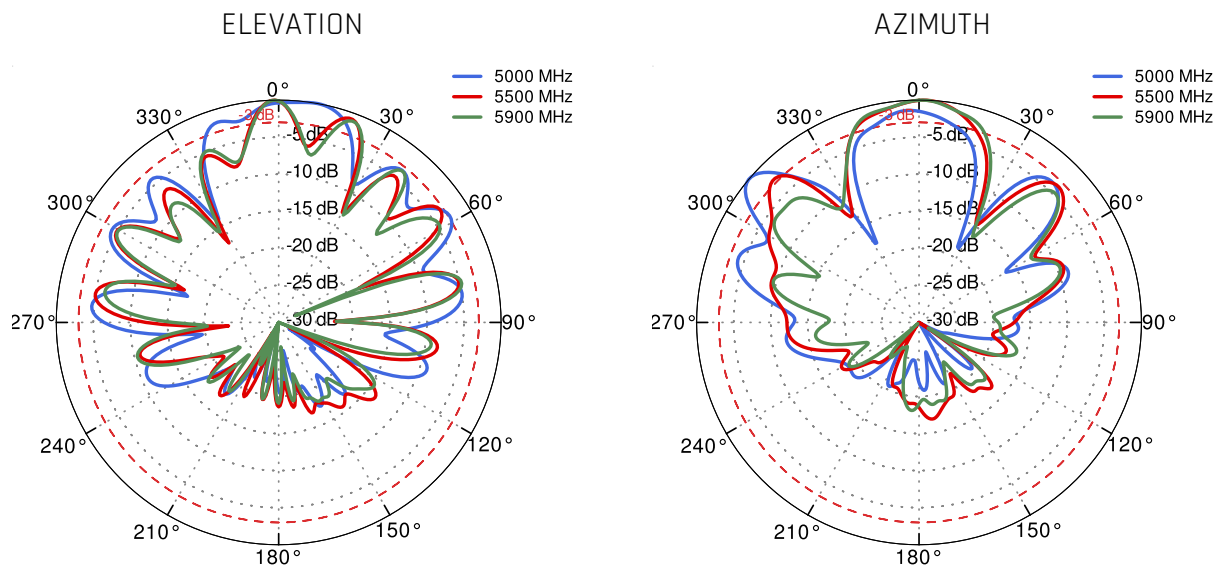
PORT 2&4 - directional 5G/LTE from 3.3GHz to 3.8GHz



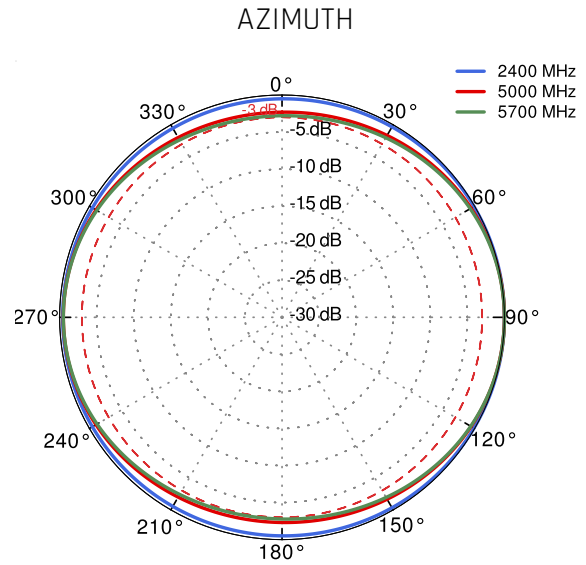
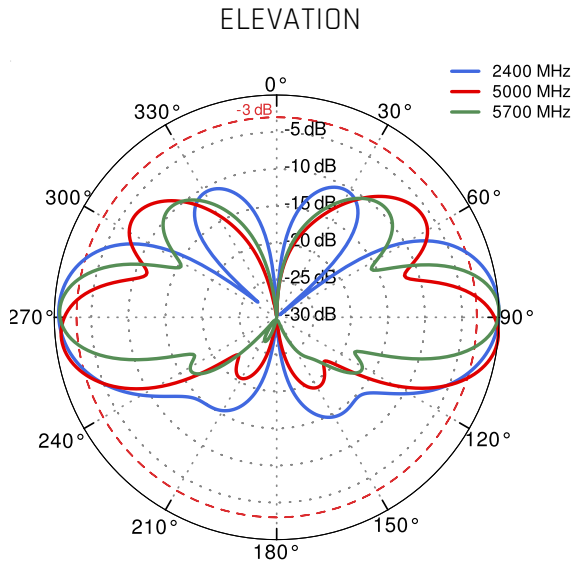
PORT 2 - directional 5G/LTE from 4.2GHz to 4.6GHz



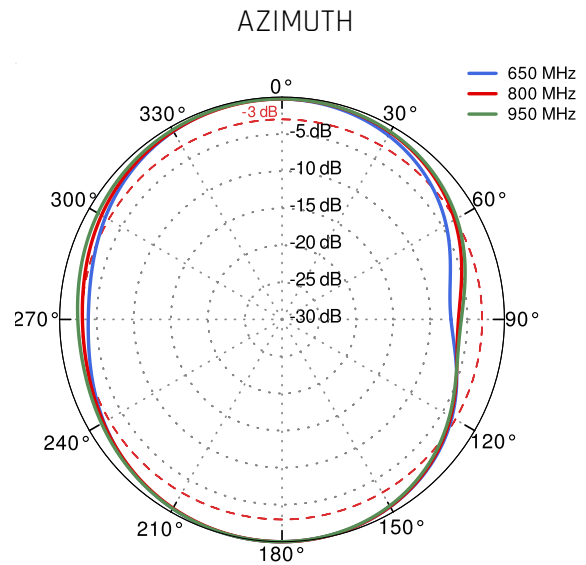
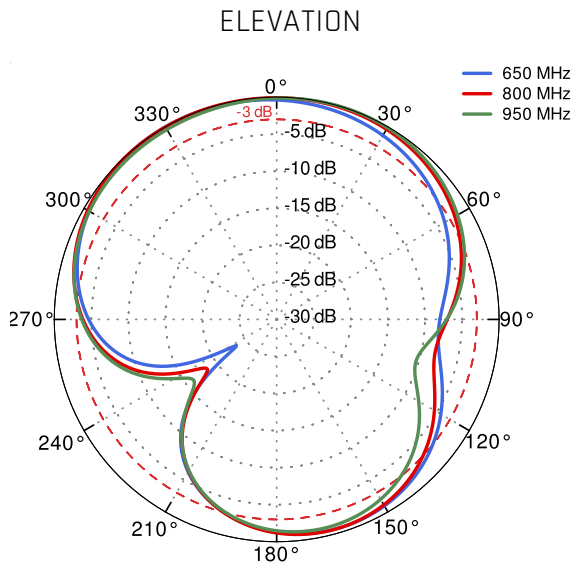
PORT 2 - directional 5G/LTE from 5.0GHz to 5.9GHz



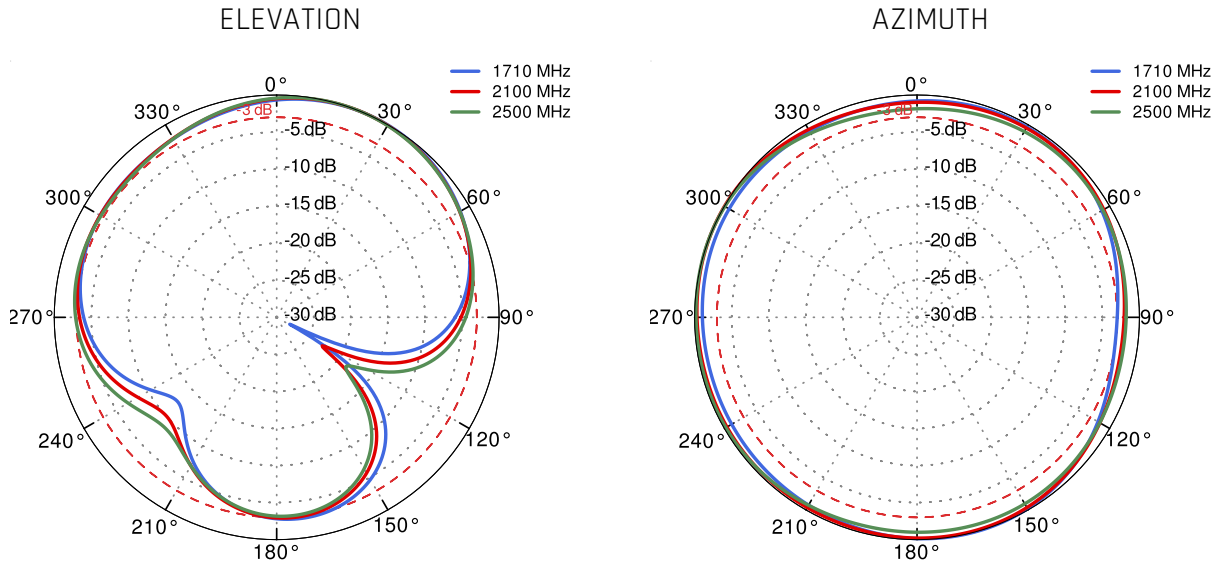
Wi-Fi 2.4GHz and 5GHz



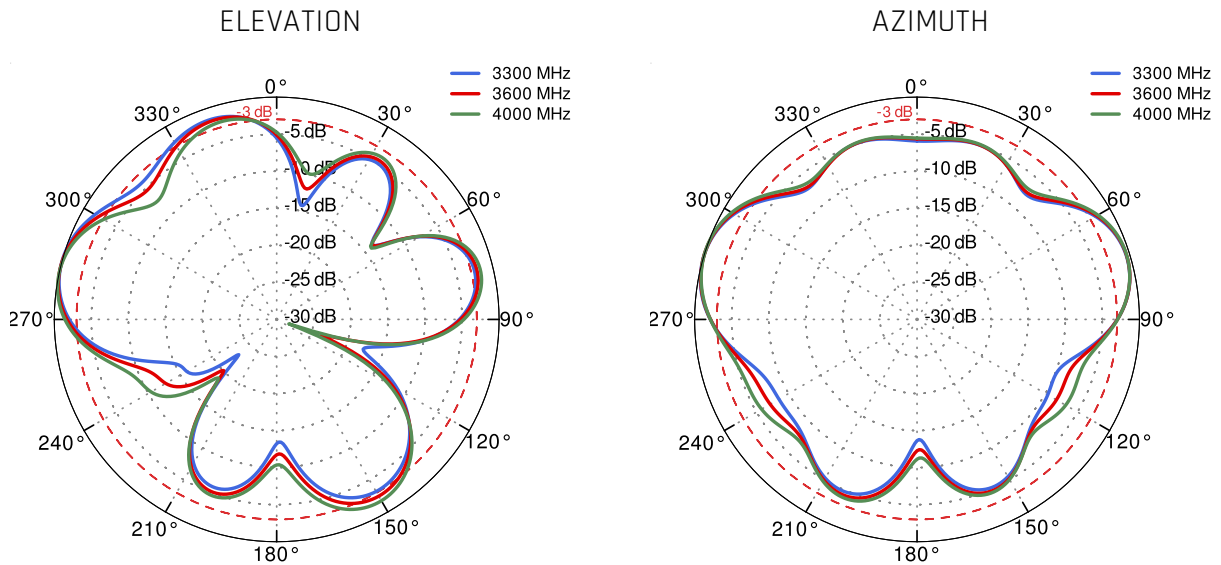
omni 5G/LTE from 650MHz to 950MHz



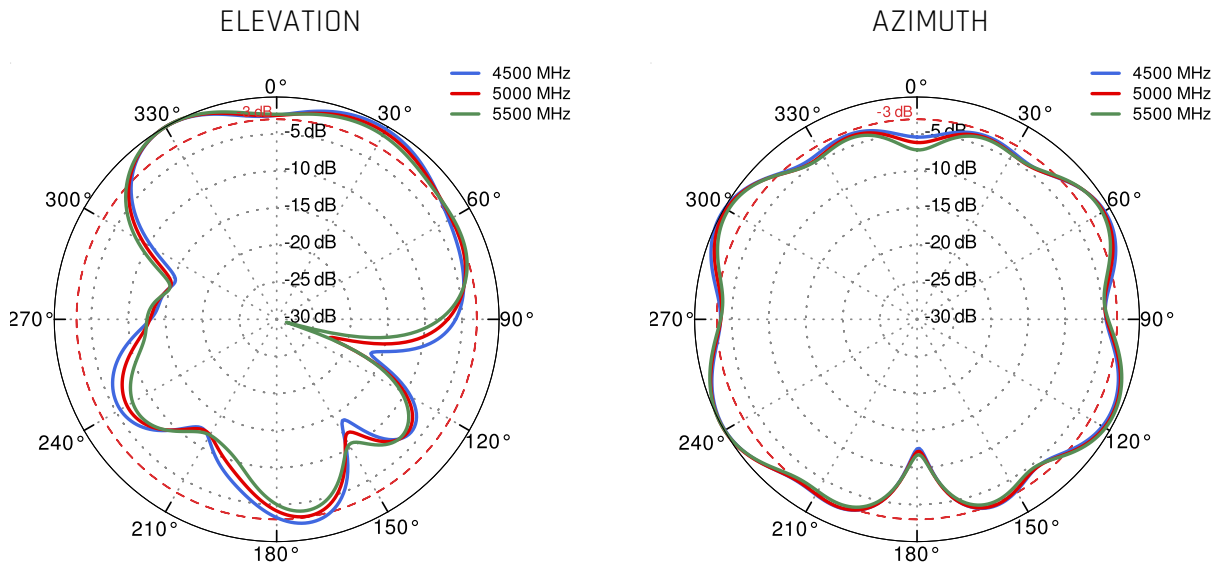
omni 5G/LTE from 1.71GHz to 2.5GHz



omni 5G/LTE from 3.3GHz to 4.2GHz



omni 5G/LTE from 4.6GHz to 5.5GHz



DIMENSIONS

