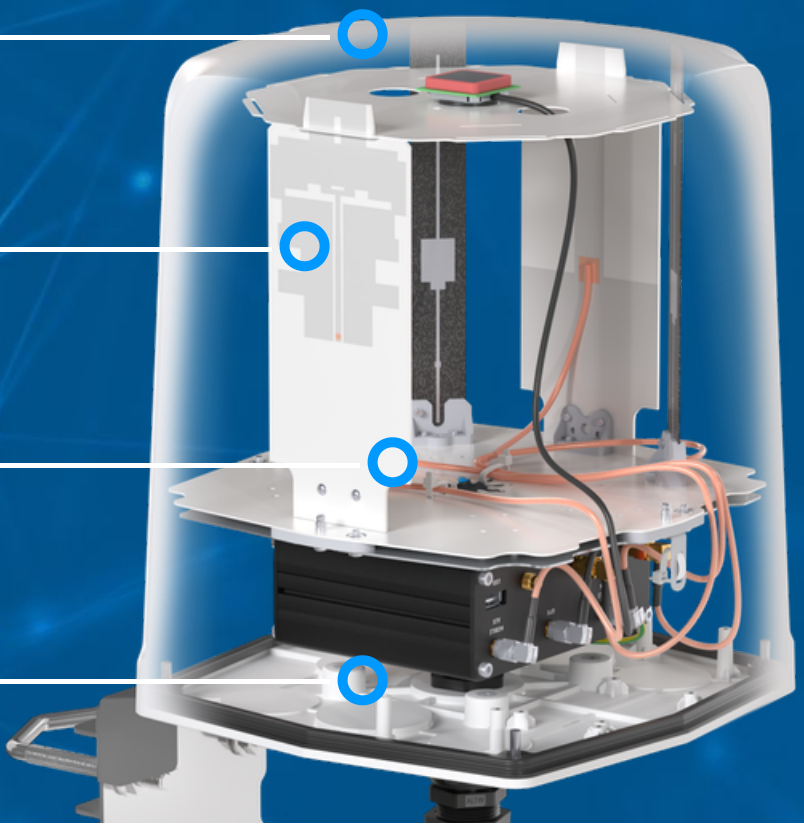
QuWave LTE High Gain GNSS for Teltonika

INTEGRATED MULTI-BAND LTE OMNI ANTENNA + WI-FI OMNI ANTENNA + GPS ACTIVE ANTENNA + PLACE TO INSTALL TELTONIKA ROUTERS (ALL-IN-ONE)

QuWave is an outdoor antenna designed to provide reliable wireless connectivity in a variety of environments. This product is an all in one solution that integrates a high gain omnidirectional LTE and Wi-Fi antennas with all Teltonika routers into a single IP67 enclosure. Such integration allows implementation of new outdoor LTE solutions.
QuWave for Teltonika is an ideal solution for outdoor wireless connectivity in moving applications such as transportation, yachting, boats and camping but also city centres with high signal density.
Compatible with the following Teltonika routers: RUT9xx, RUT3xx, RUTX09, RUTM09, RUTX11*, RUTM11*, RUTM16
* no Bluetooth antenna

4G LTE | BAND 71 | 2x2 MIMO | 500-6230MHz | 4 dBi | OMNI DIRECTIONAL | Wi Fi 6E | GPS | IP 67 | -40° TO +80°

- OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP67
- ANTENNA PERFECTLY MATCHED WITH THE TELTONIKA ROUTERS
- ALL ANTENNAS AND TELTONIKA ROUTER INTEGRATED IN ONE ENCLOSURE
- GALVANIZED STEEL, WALL OR POLE MOUNTING BRACKET



5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.5 - 2.0 GHz 2.0 - 3.7 GHz 3.7 - 5.0 GHz 5.0 - 6.23 GHz
MAX. GAIN	0.5 - 2.0 GHz : 3 dBi 2.0 - 3.7 GHz : 4 dBi 3.7 - 5.0 GHz : 4.6 dBi 5.0 - 6.23 GHz : 4.1 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	2x SMA
CABLE TYPE	RG316

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WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.4 - 2.5 GHz 5.0 - 7.2 GHz
MAX. GAIN	2.4 - 2.5 GHz: 6dBi 5 GHz: 7.5dBi 7 GHz: 7.5dBi
VSWR	< 1.50, max < 2.00
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

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POLARIZATION	RHCP (right hand circularly polarized)
CONNECTOR	1x SMA
CABLE TYPE	RG174

MECHANICAL SPECIFICATION

RADOME MATERIAL	UV-resistant ASA
OPERATING HUMIDITY	up to 100% RH
MATERIALS	aluminum, PTFE
CONNECTOR TYPE	1x QuRJ45
OUTER DIMENSIONS	210 x 210 x 254 mm 8.27 x 8.27 x 10 inch
INGRESS PROTECTION	IP67
OPERATING TEMPERATURE	From -40°C to 80°C From -40°F to 176°F
MAST DIAMETER	25-66 mm 0.98-2.60 inch
ENCLOSURE RECOMMENDED TIGHTENING TORQUE	0.5 - 0.7 Nm

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FREQUENCY BANDS

LTE / 4G

617 MHz

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
47	48	49	52	53	65	66
67	68	69	71	85	103	106

6000 MHz

5G

617 MHz

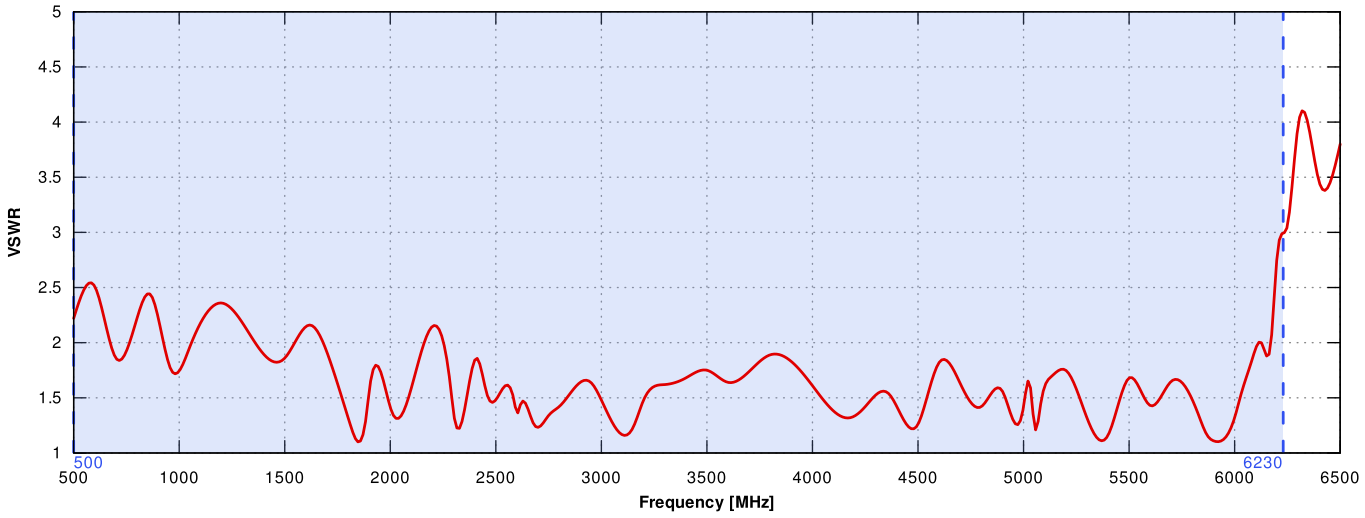
n1	n2	n3	n5	n7	n8	n12
n13	n14	n18	n20	n25	n26	n28
n29	n30	n34	n38	n39	n40	n41
n47	n48	n53	n65	n66	n67	n71
n77	n78	n80	n81	n82	n83	n84
n85	n86	n89	n90	n95	n97	n98
n100	n101	n256				

6000 MHz

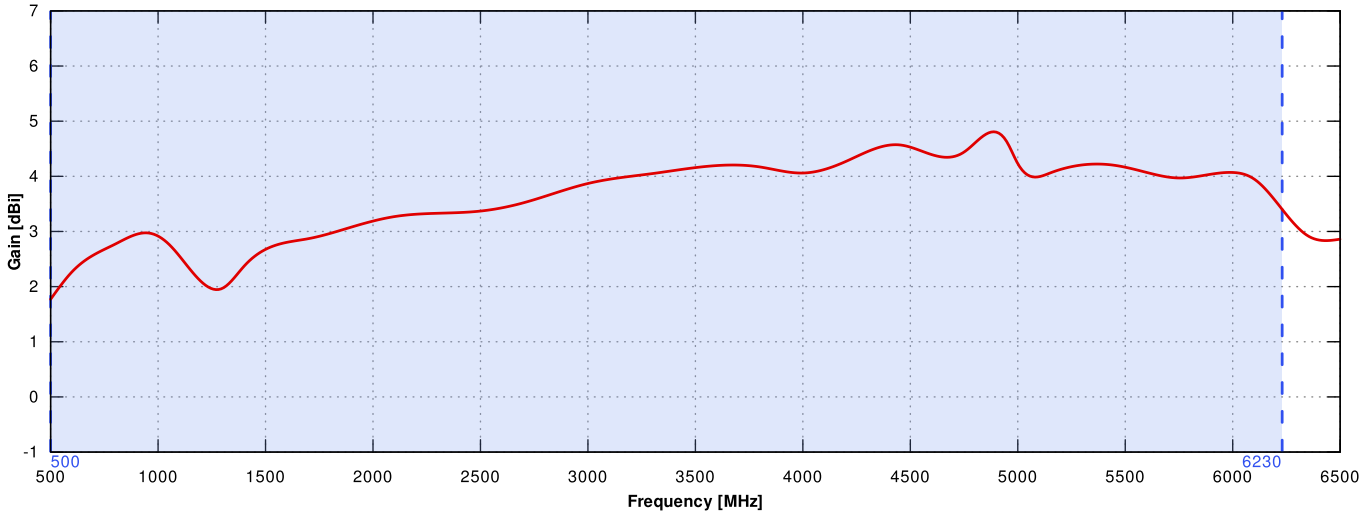
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PLOTS

5G/LTE VSWR

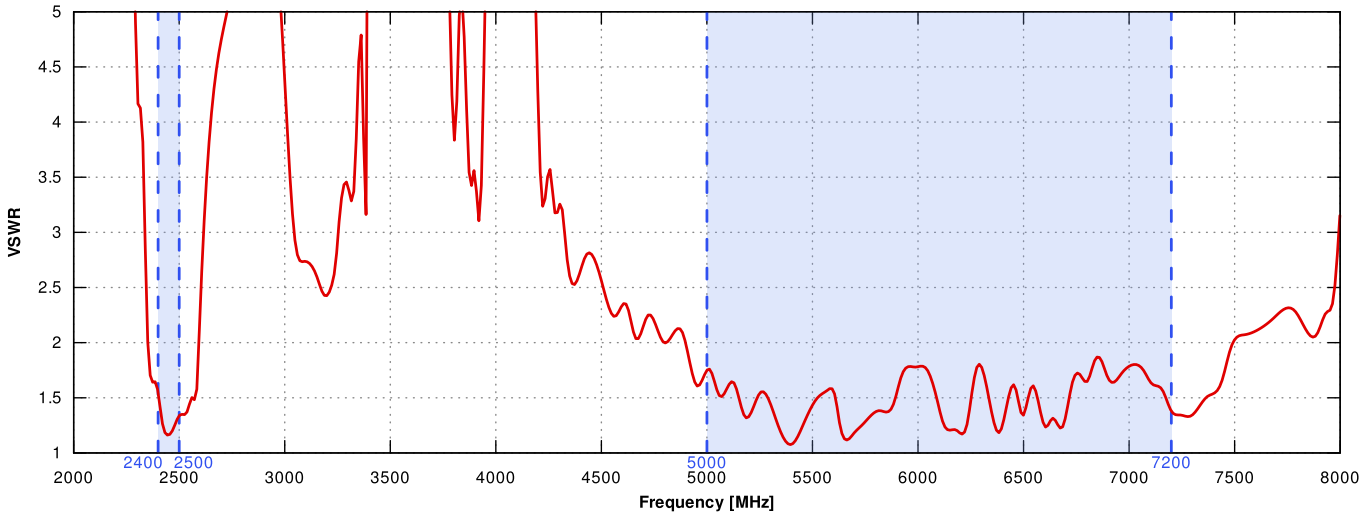


5G/LTE Gain

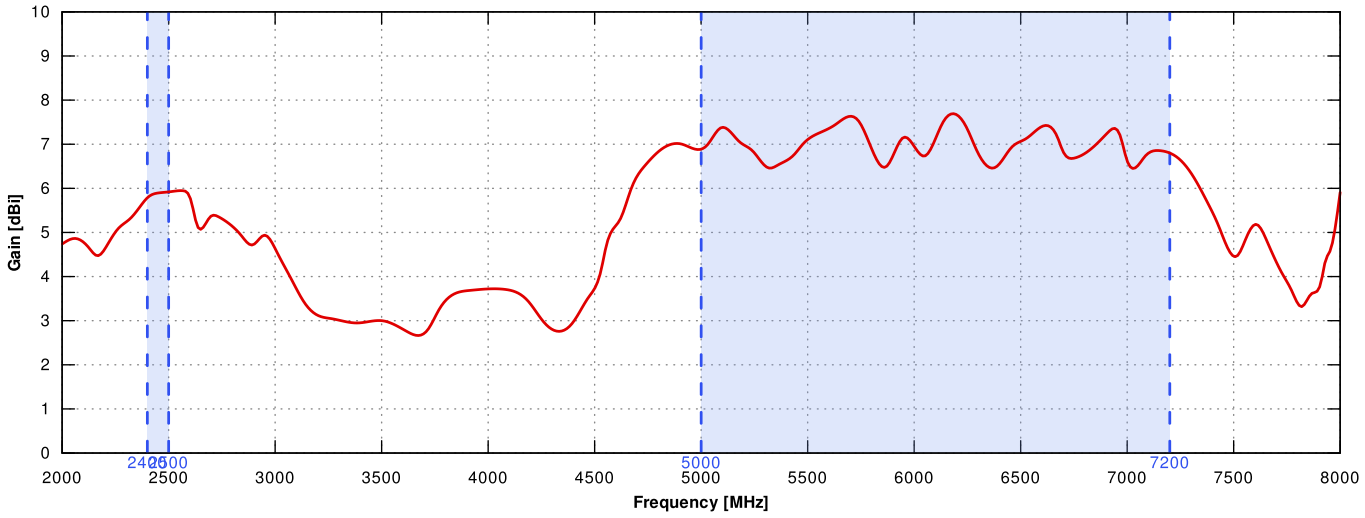


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WI-FI VSWR



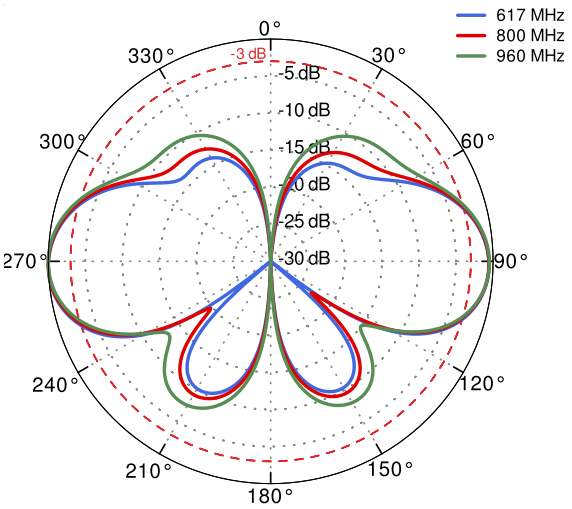
WI-FI Gain



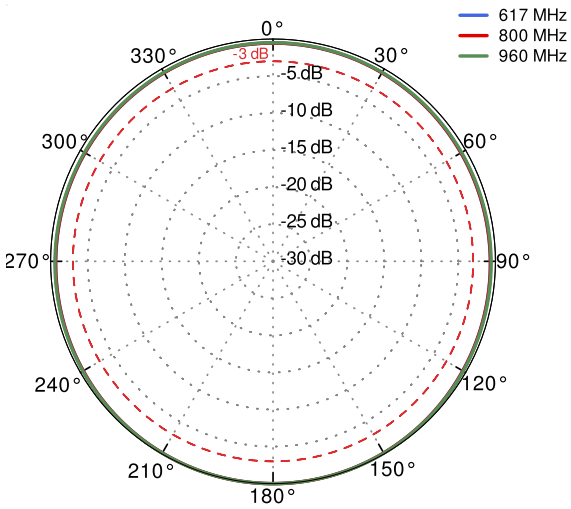
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5G/LTE From 617MHz to 960MHz

ELEVATION

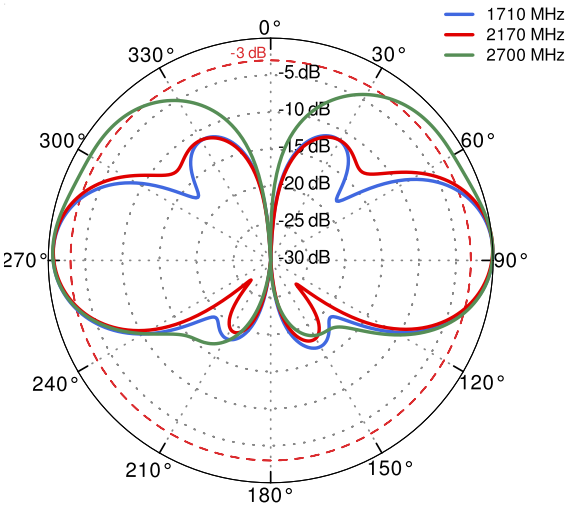


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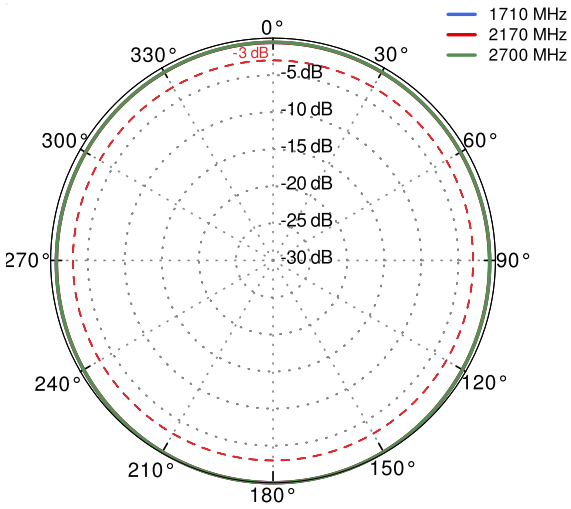


5G/LTE From 1.71GHz to 2.7GHz

ELEVATION



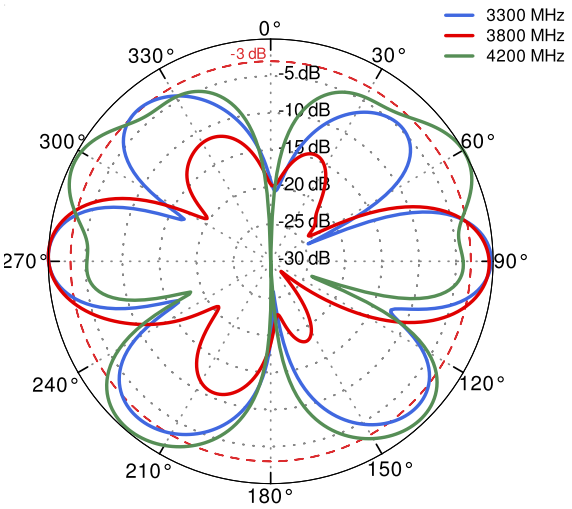
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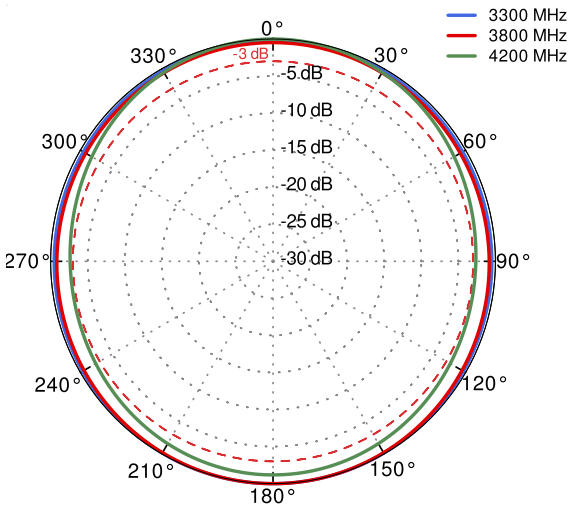
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5G/LTE From 3.3GHz to 4.2GHz

ELEVATION

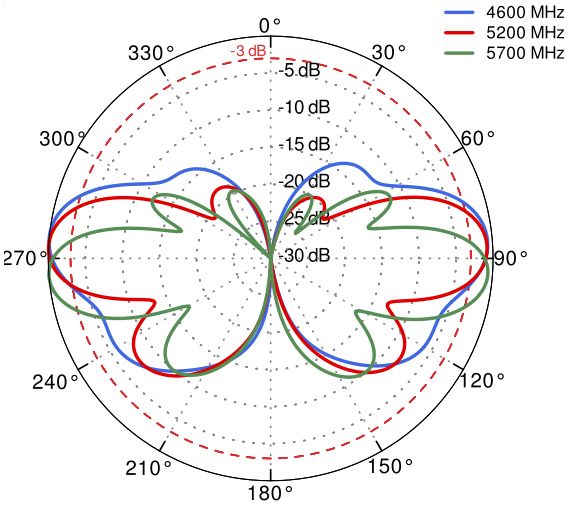


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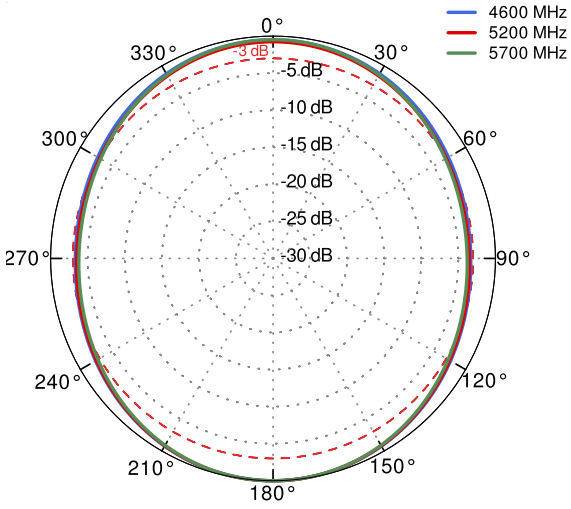


5G/LTE From 4.6GHz to 5.7GHz

ELEVATION



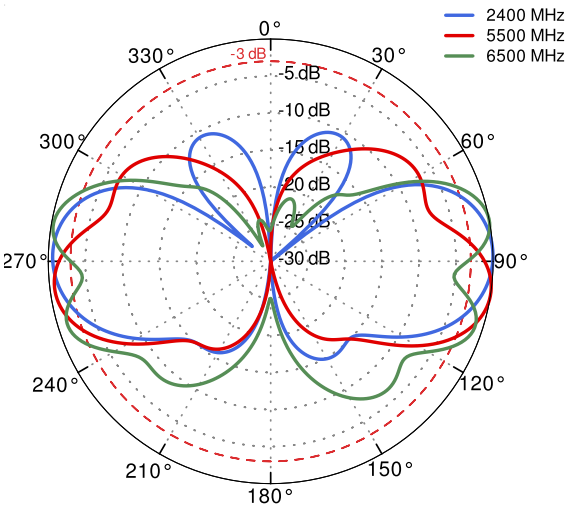
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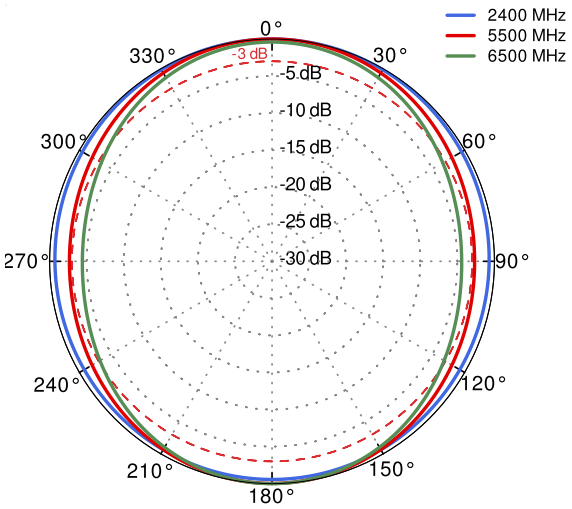
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Wi-Fi From 2.4 GHz to 6.5 GHz

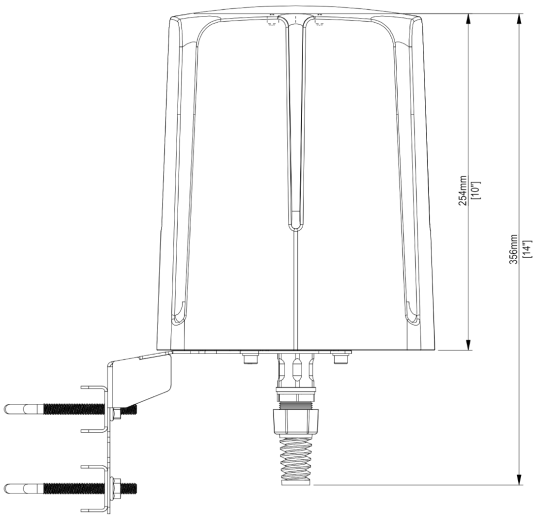
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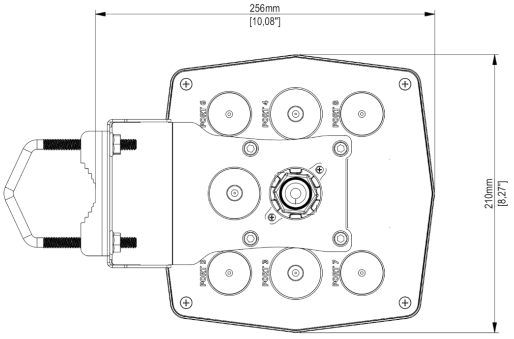


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DIMENSIONS





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