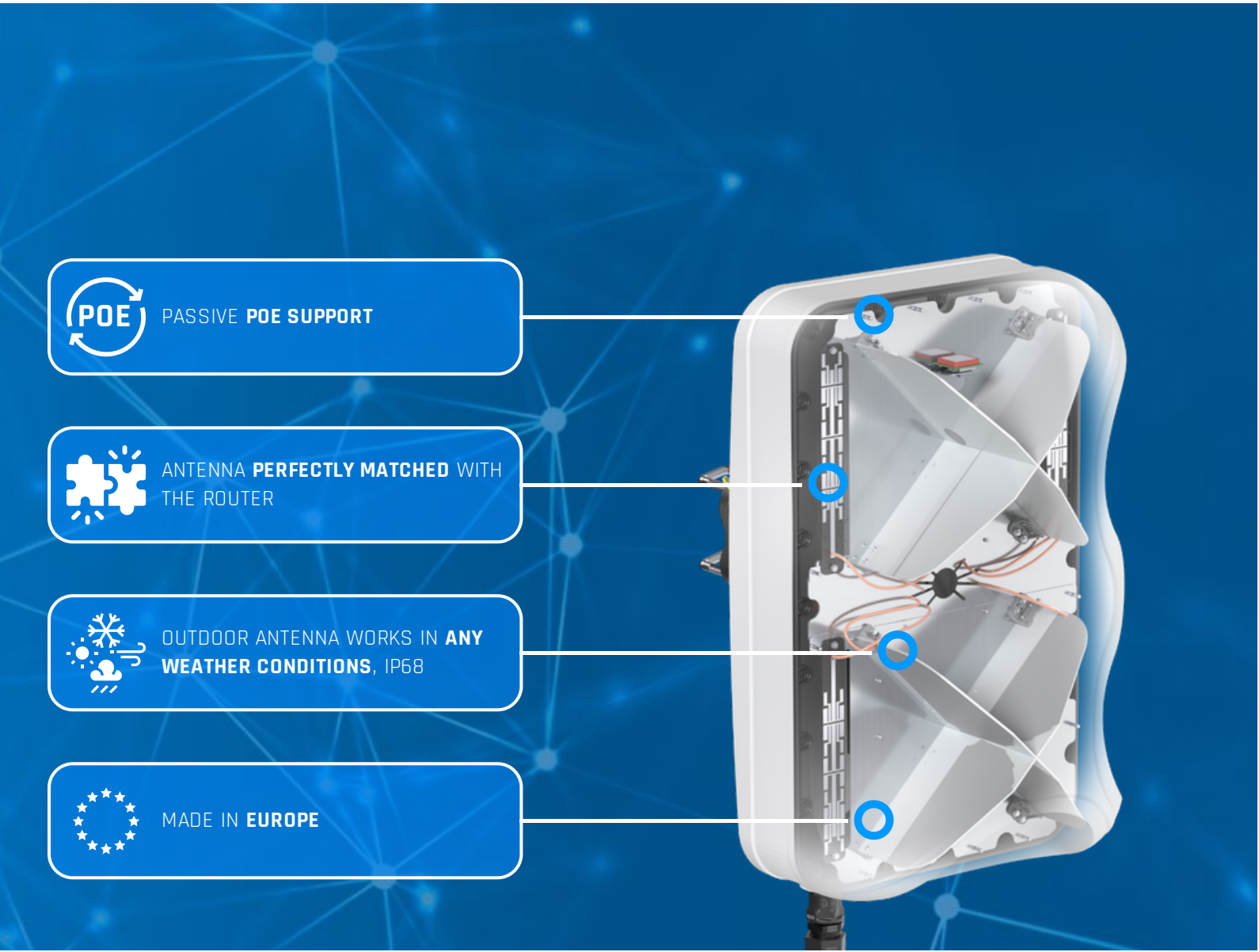
QuMax for Teltonika RUTC50

INTEGRATED MULTI-BAND LTE & 5G PANEL ANTENNA + WI-FI 6E OMNI ANTENNA + GPS + PLACE TO INSTALL TELTONIKA RUTC50 (ALL-IN-ONE)

QuMax for RUTC50 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 5G, Wi-Fi and GPS antennas integrated in IP68 (IP67) enclosure. It offers 7.5 dBi gain and wide beamwidth, which makes it suitable for use in both urban and rural environments.
Combining QuMax with RUTC50 inside the antenna housing gives you complete outdoor solution with mulitple use scenarios such as transportation public, energy, mining IoT and more.
Wi-Fi 6E support!
The RUTC50 only supports passive POE from batch number 7 onwards.

5G | BAND 71 | Wi Fi 6E | GPS | 617-6000MHz | 7 dBi | DIRECTIONAL | IP 68 | -40° TO +80°



5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.617 - 0.96 GHz 1.7 - 2.7 GHz 3.3 - 4.6 GHz 4.7 - 6.0 GHz
GAIN	0.617 - 0.96 GHz: 6 dBi 1.7 - 2.7 GHz: 7 dBi 3.3 - 4.6 GHz: 7 dBi 4.7 - 6.0 GHz: 5.5 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, 46, 47, 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, n46, n47, 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 <3.00
BEAMWIDTH	80°/80° ±15°
POLARIZATION	X (+-45degrees)
IMPEDANCE	50 Ω

WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.40 - 2.50 GHz 5.0 - 7.125 GHz
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

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
46	47	48	49	52	53	65
66	67	68	69	71	85	103
106						

6000MHz

5G

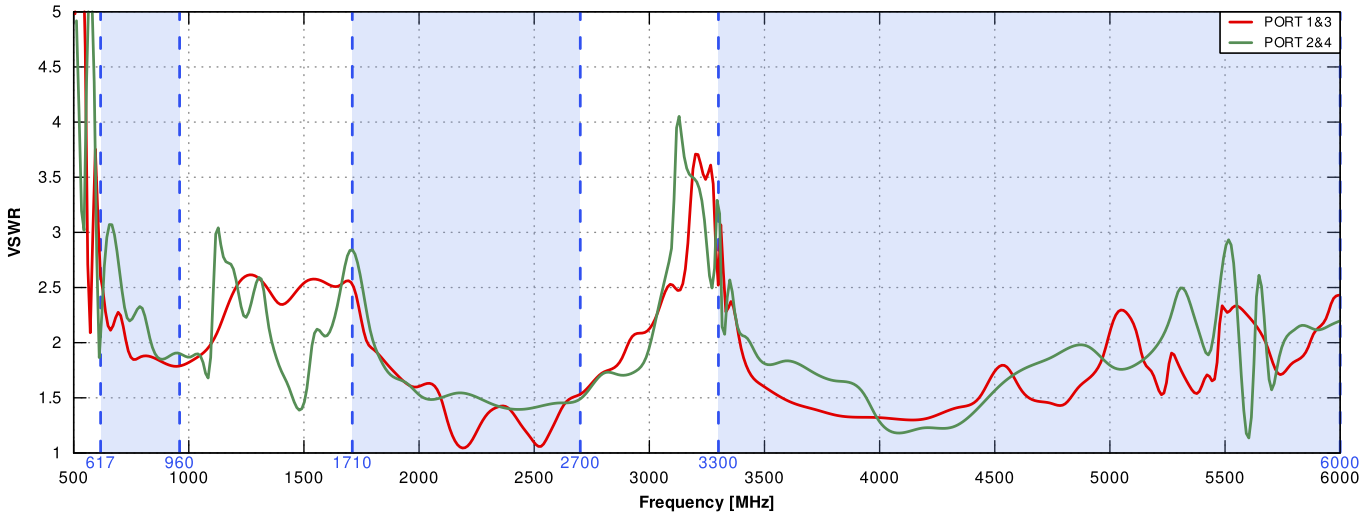
617 MHz

n1	n2	n3	n5	n7	n8	n12
n13	n14	n18	n20	n25	n26	n28
n29	n30	n34	n38	n39	n40	n41
n46	n47	n48	n53	n65	n66	n67
n71	n77	n78	n80	n81	n82	n83
n84	n85	n86	n89	n90	n95	n97
n98	n100	n101	n256			

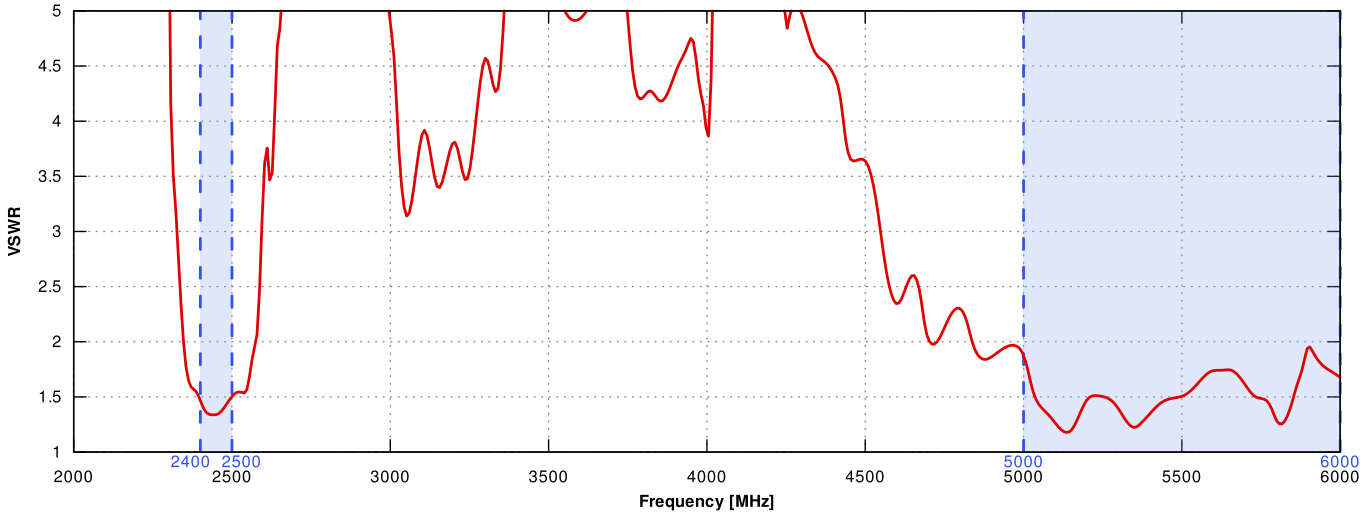
6000 MHz

PLOTS

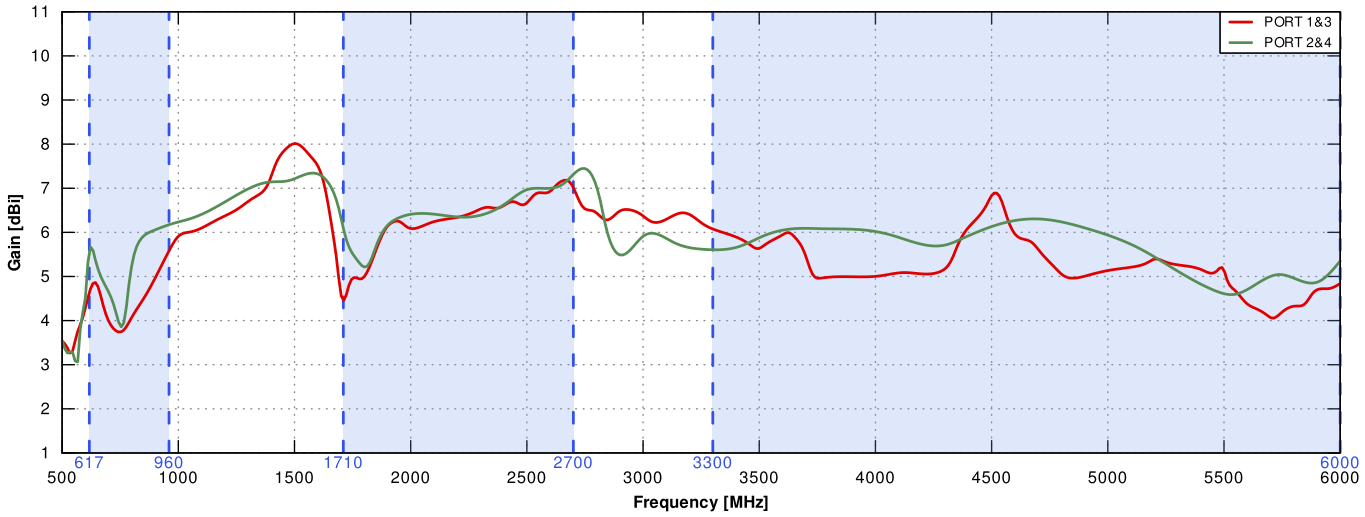
VSWR for 5G/LTE antenna



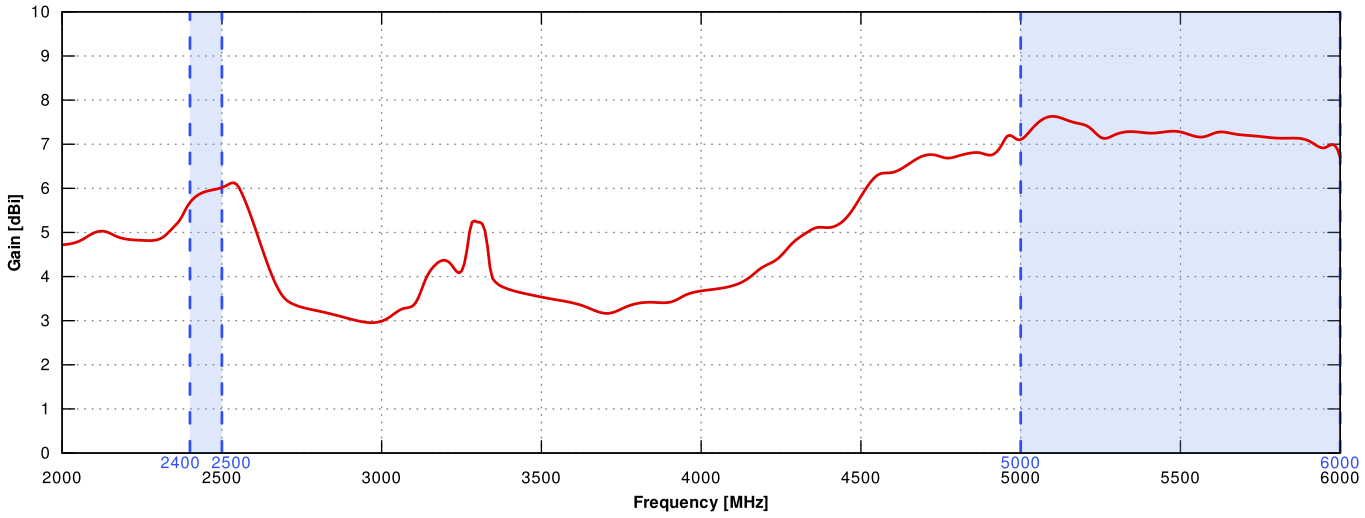
VSWR for Wi-Fi antenna



Gain for 5G/LTE antenna

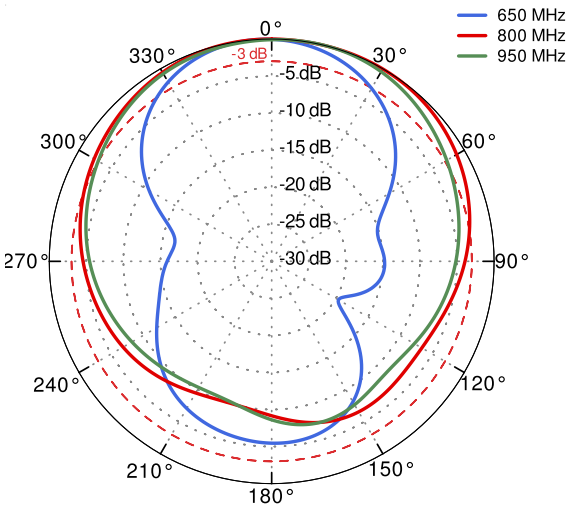


Gain for Wi-Fi antenna



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

ELEVATION



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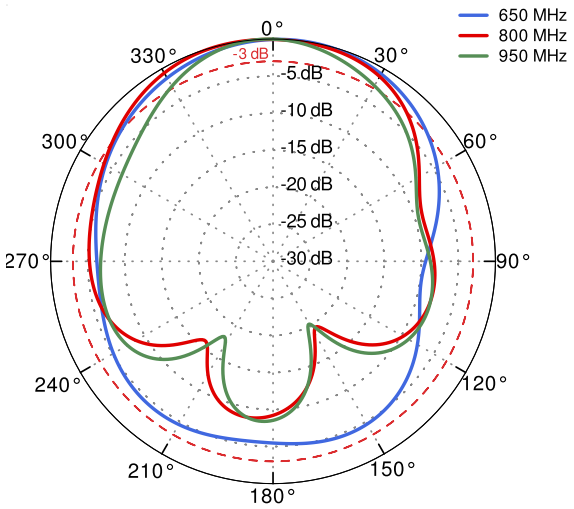
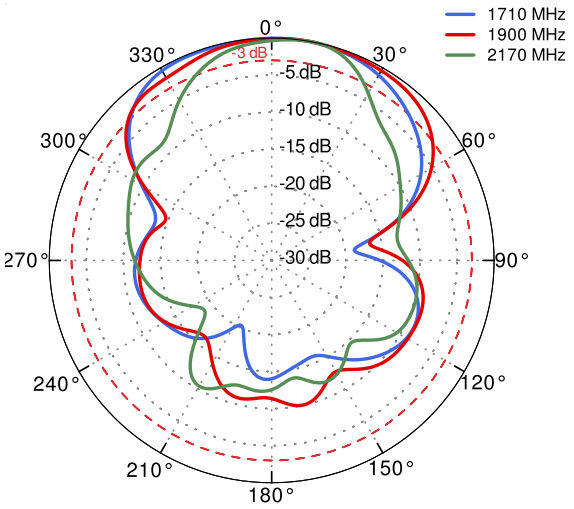


PORT 1&3 - 5G/LTE from 1.71GHz to 2.17GHz

ELEVATION



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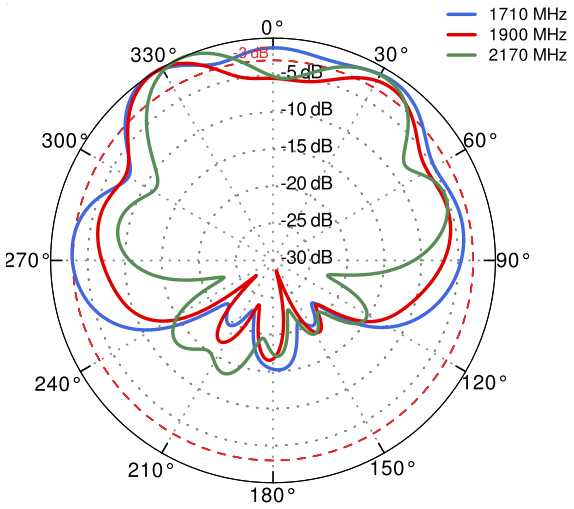
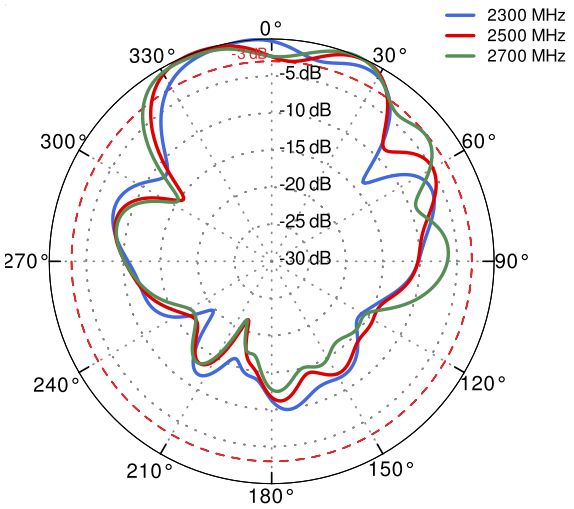
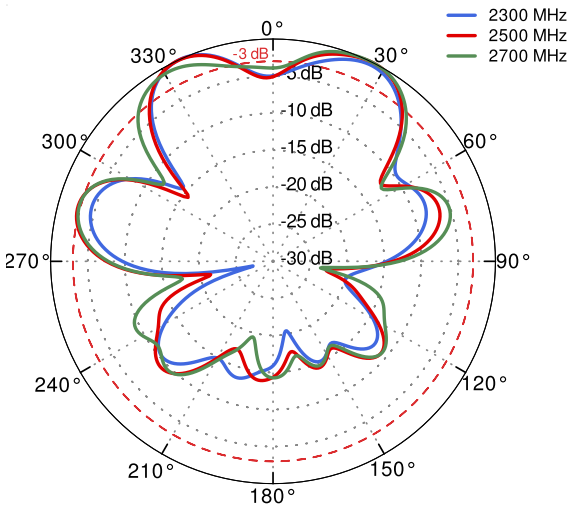


PORT 1&3 - 5G/LTE from 2.3GHz to 2.7GHz

ELEVATION

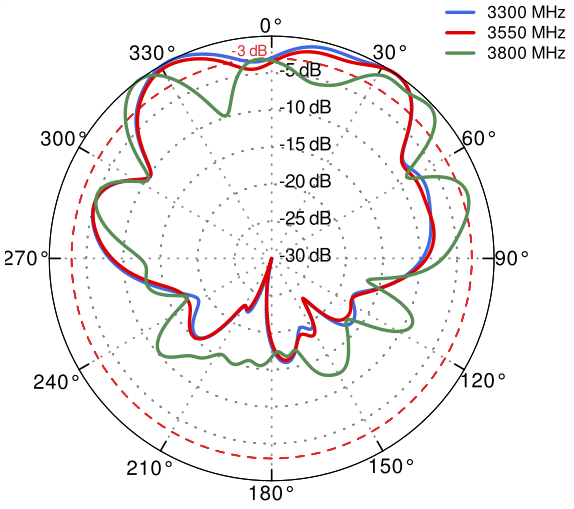


AZIMUTH



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

ELEVATION



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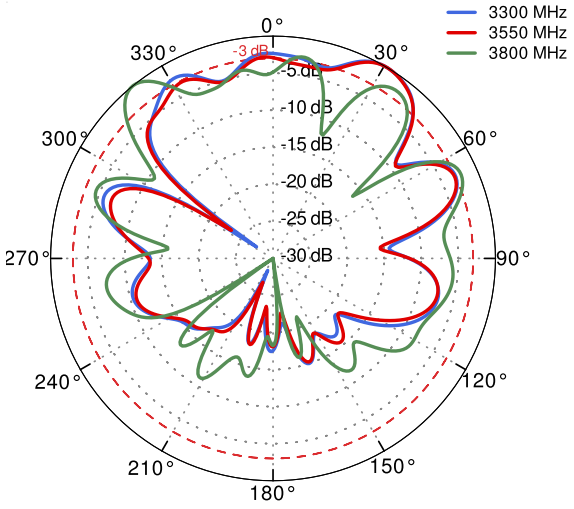
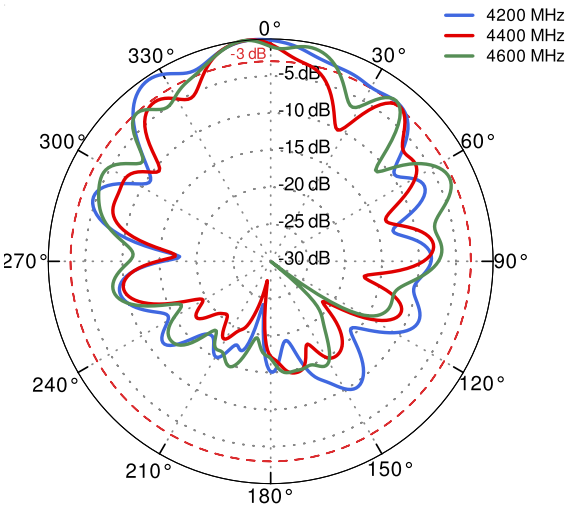


PORT 1&3 - 5G/LTE from 4.2GHz to 4.6GHz

ELEVATION



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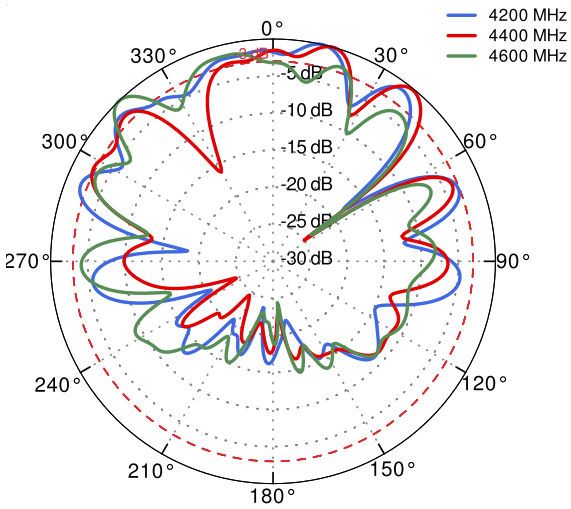
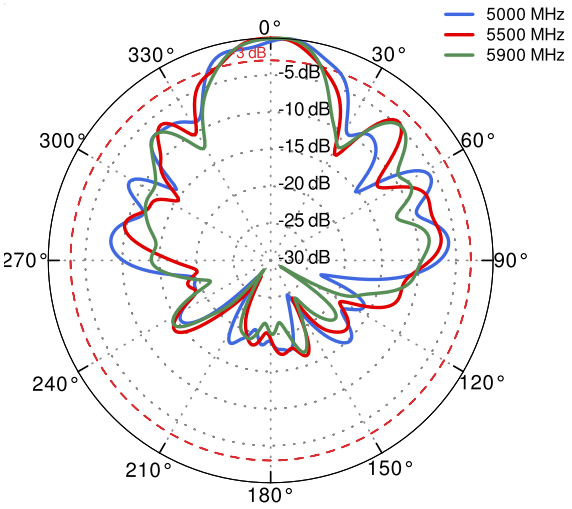


PORT 1&3 - 5G/LTE from 5.0GHz to 5.9GHz

ELEVATION



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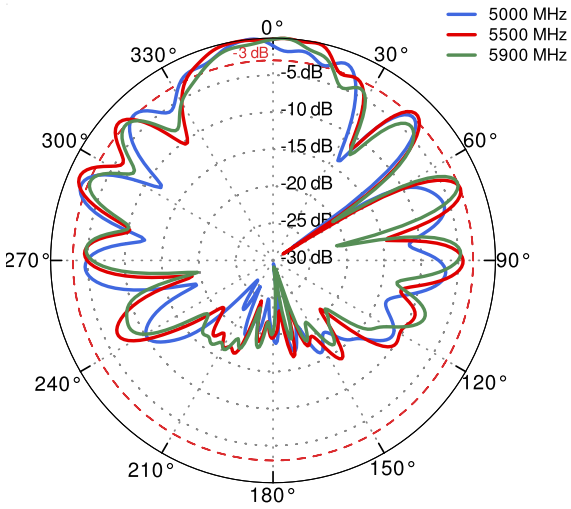
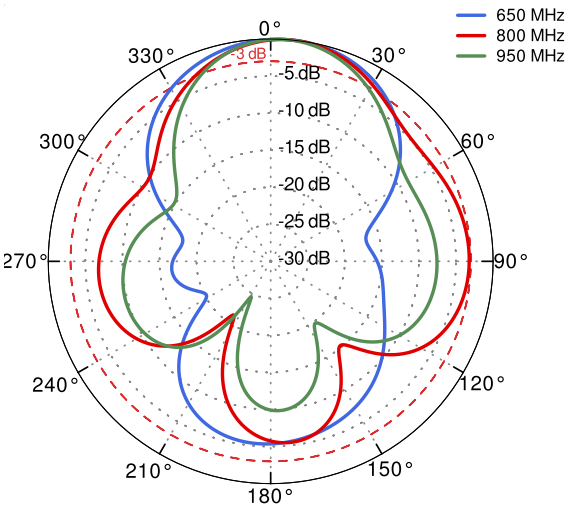


PORT 2&4 - 5G/LTE from 650MHz to 950MHz

ELEVATION



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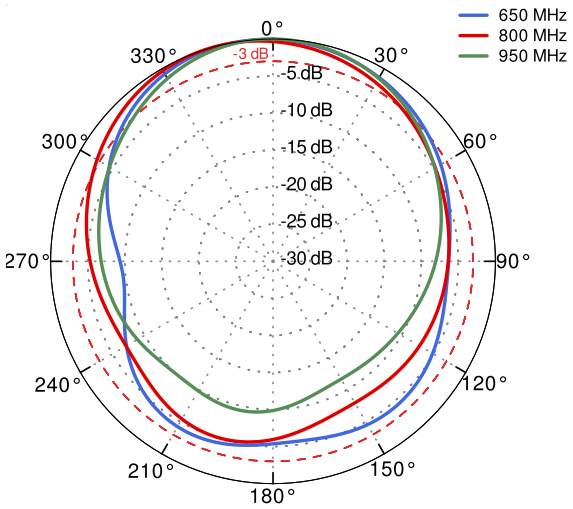
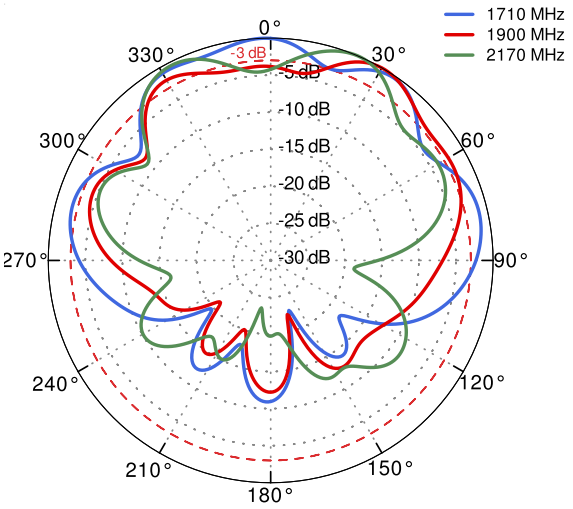


PORT 2&4 - 5G/LTE from 1.71GHz to 2.17GHz

ELEVATION



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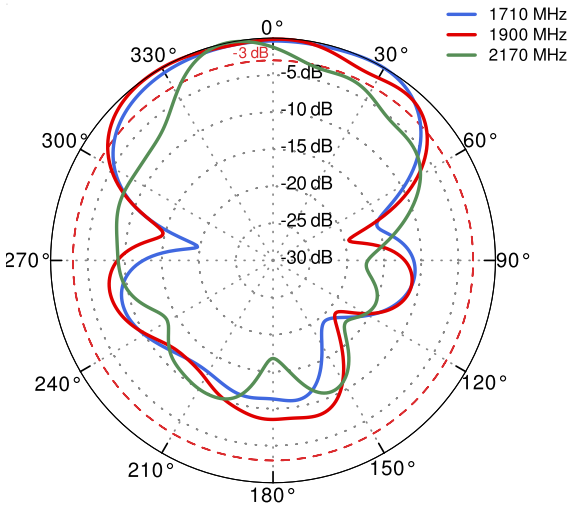
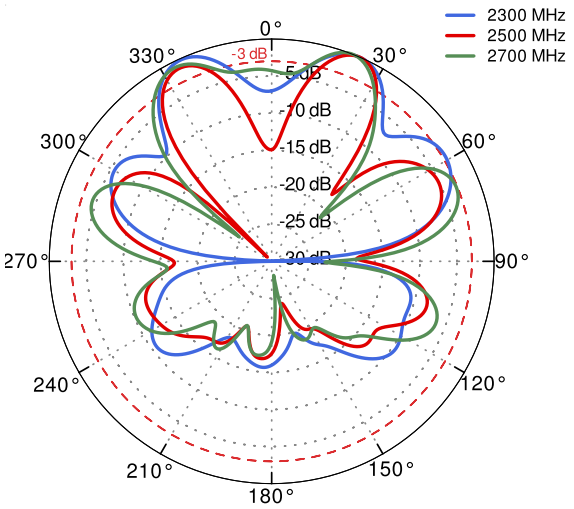


PORT 2&4 - 5G/LTE from 2.3GHz to 2.7GHz

ELEVATION



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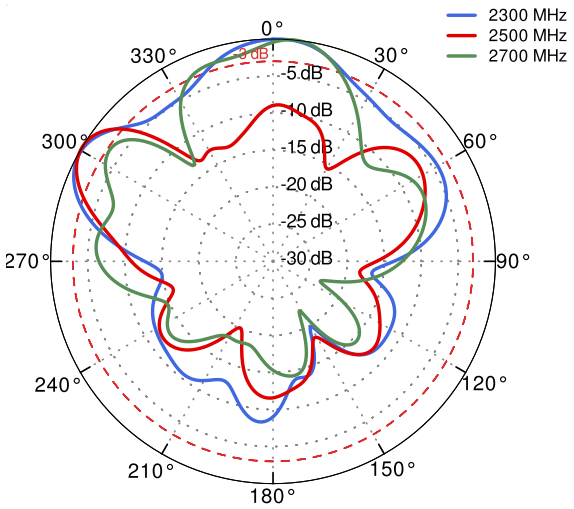
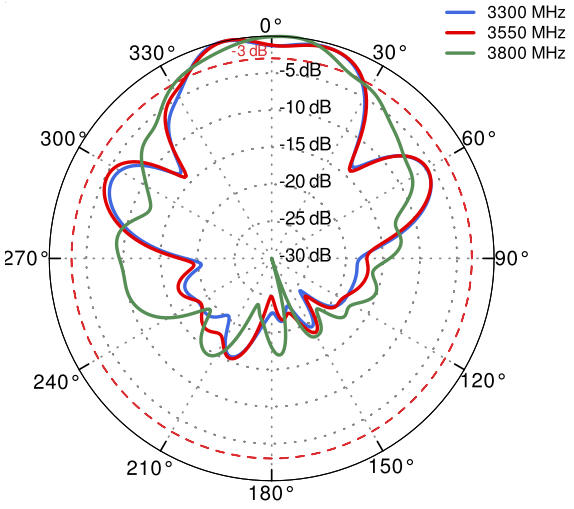


PORT 2&4 - 5G/LTE from 3.3GHz to 3.8GHz

ELEVATION



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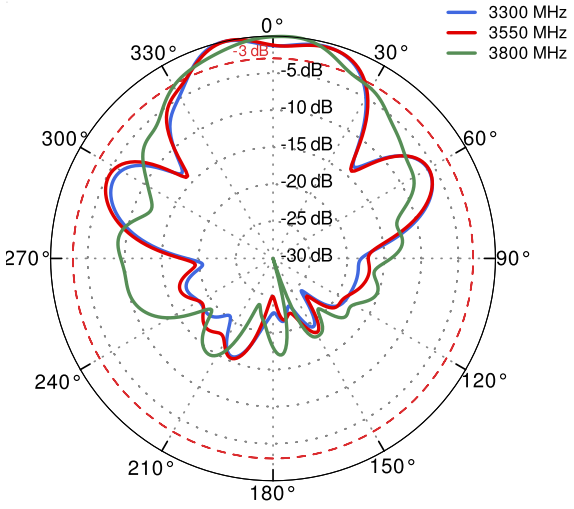
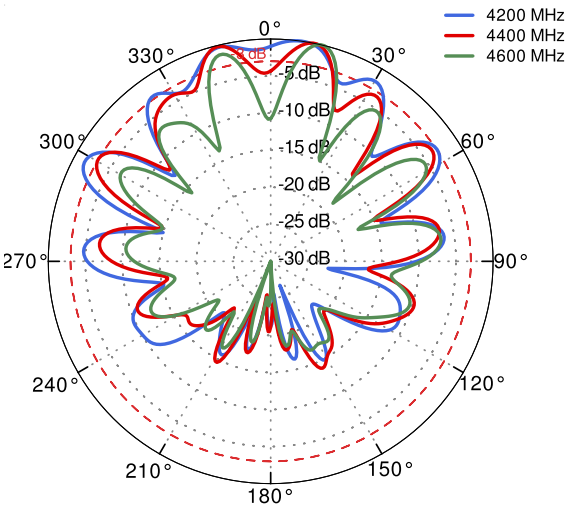


PORT 2 - 5G/LTE from 4.2GHz to 4.6GHz

ELEVATION



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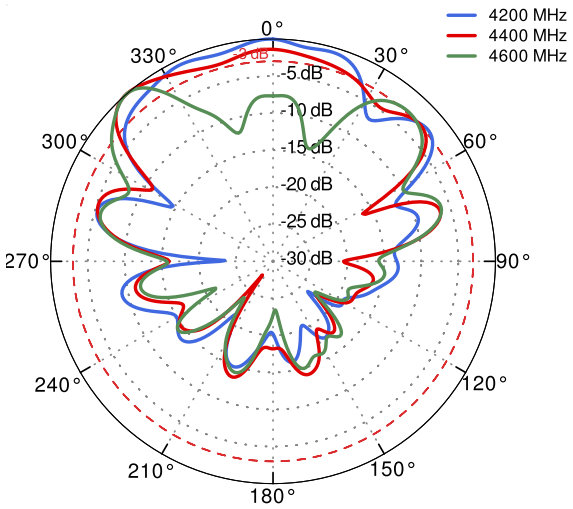
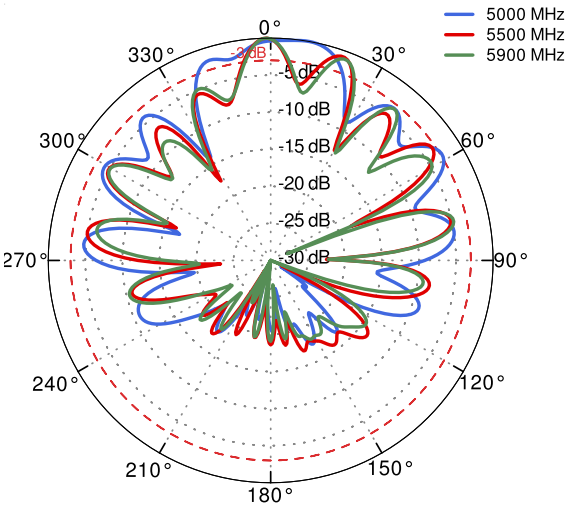


PORT 2 - 5G/LTE from 5.0GHz to 5.9GHz

ELEVATION



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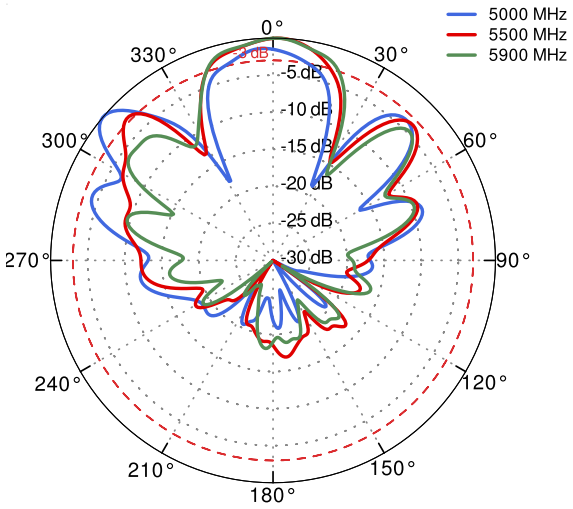
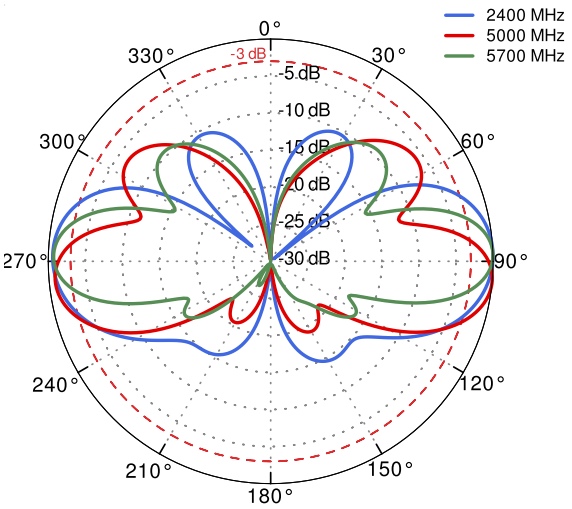


Wi-Fi 2.4GHz and 5GHz

ELEVATION



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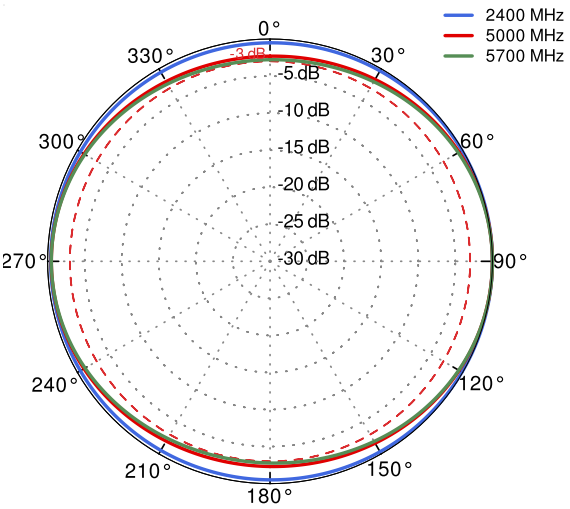
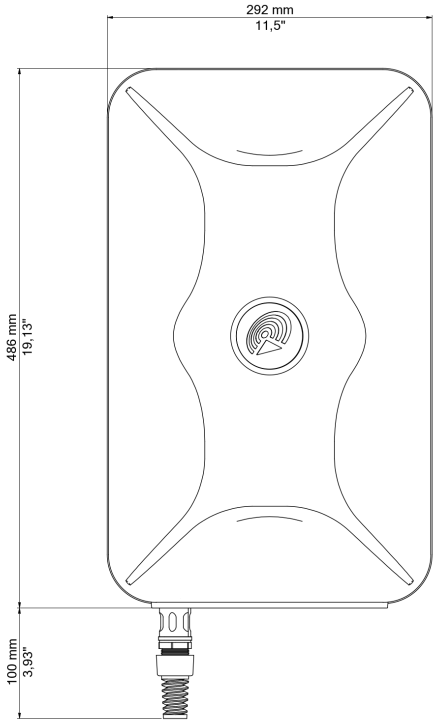
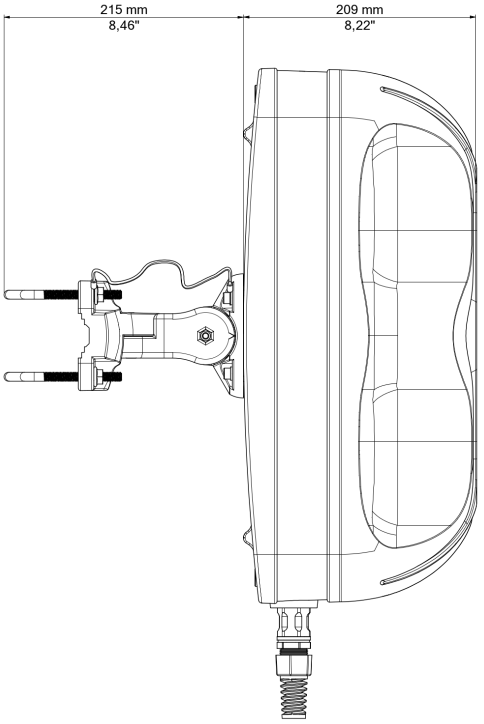
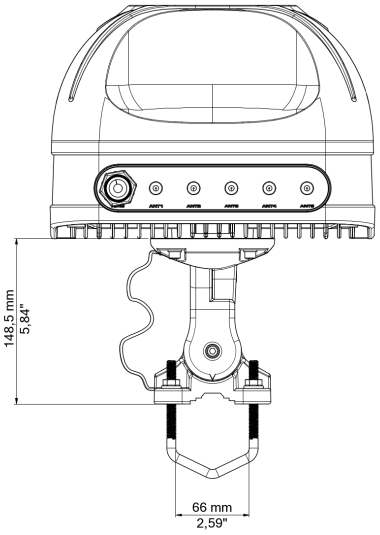


DIMENSIONS







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