



THDR40

## **Thunder Series**

Integrated Multi-Band 5G Directional Antenna  
for Ericsson (Cradlepoint) S400

- Integrated Multi-Band 5G Directional Antenna
- Wi-Fi 6E Omni Antenna
- Cavity to install Ericsson (Cradlepoint) S400 Router



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# Thunder Series THDR40

## Integrated directional antenna for Ericsson (Cradlepoint) S400

**INTEGRATED MULTI-BAND 5G DIRECTIONAL ANTENNA + WI-FI 6E OMNI ANTENNA + PLACE TO INSTALL ERICSSON (CRADLEPOINT) S400 (ALL-IN-ONE)**

The Taoglas **THDR40** is an outdoor antenna for Ericsson (Cradlepoint) S400 routers is a perfect outdoor device for improving the signal in rural/suburban and locations where the mobile signal is weak. It has embedded directional 5G and Wi-Fi® antennas. If you use the Ericsson S400 router with the THDR40 Thunder Integrated Directional antenna you get a complete integrated solution with embedded router and multi-band antennas in one enclosure.





## 5G / LTE ANTENNA SPECIFICATION

FREQUENCY	617 - 960 MHz 1.7 - 2.7 GHz 3.3 - 4.6 GHz 4.7 - 6.0 GHz
GAIN	617 - 960 MHz: 6 dBi 1.7 - 2.7 GHz: 7 dBi 3.3 - 4.6 GHz: 7 dBi 4.7 - 6.0 GHz: 5.5dBi
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, n79, 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	50Ω



## WI-FI ANTENNA SPECIFICATION

FREQUENCY	2.4 - 2.5 GHz 5.0 - 7.2GHz
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	50Ω

## MECHANICAL SPECIFICATION

MATERIALS	ABS, aluminum, PTFE, fiberglass
CONNECTOR TYPE	RJ45
INGRESS PROTECTION	IP67
DIMENSIONS	269 x 270 x 177 mm 10.6 x 10.6 x 7 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

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						

617 MHz 6000 MHz

5G

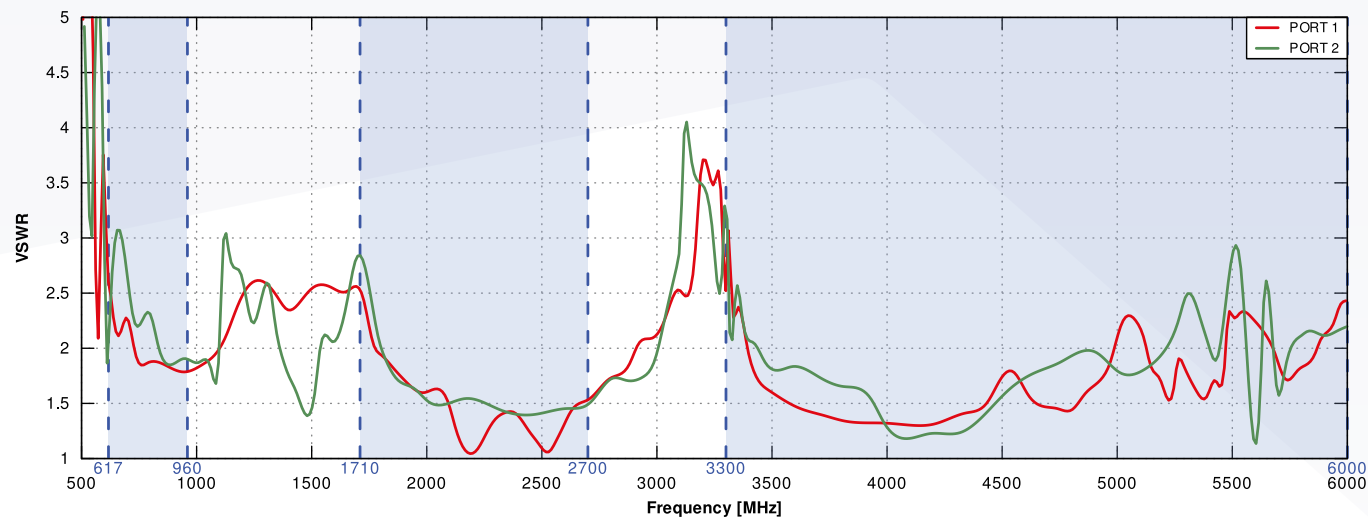
n1	n2	n3	n5	n7	n8	n12
n13	n14	n18	n20	n25	n26	n28
n29	n30	n34	n38	n39	n40	n41
n46	n47	n48	n53	n65	n66	n67
n71	n77	n78	n79	n80	n81	n82
n83	n84	n85	n86	n89	n90	n95
n97	n98	n100	n101	n256		

617 MHz 6000 MHz

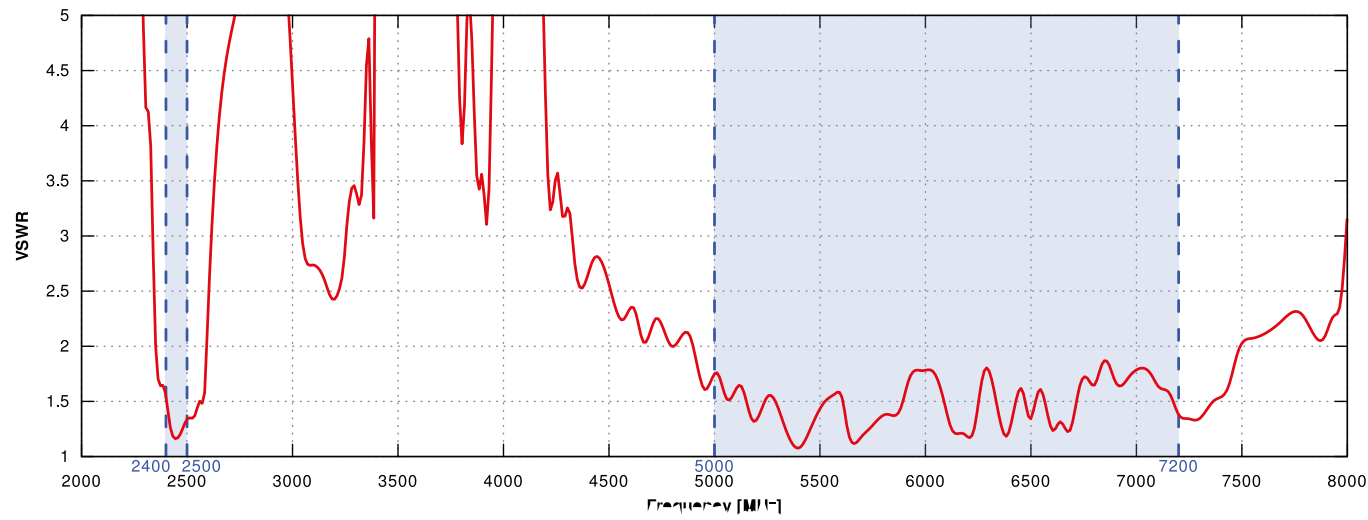


PLOTS

LTE VSWR

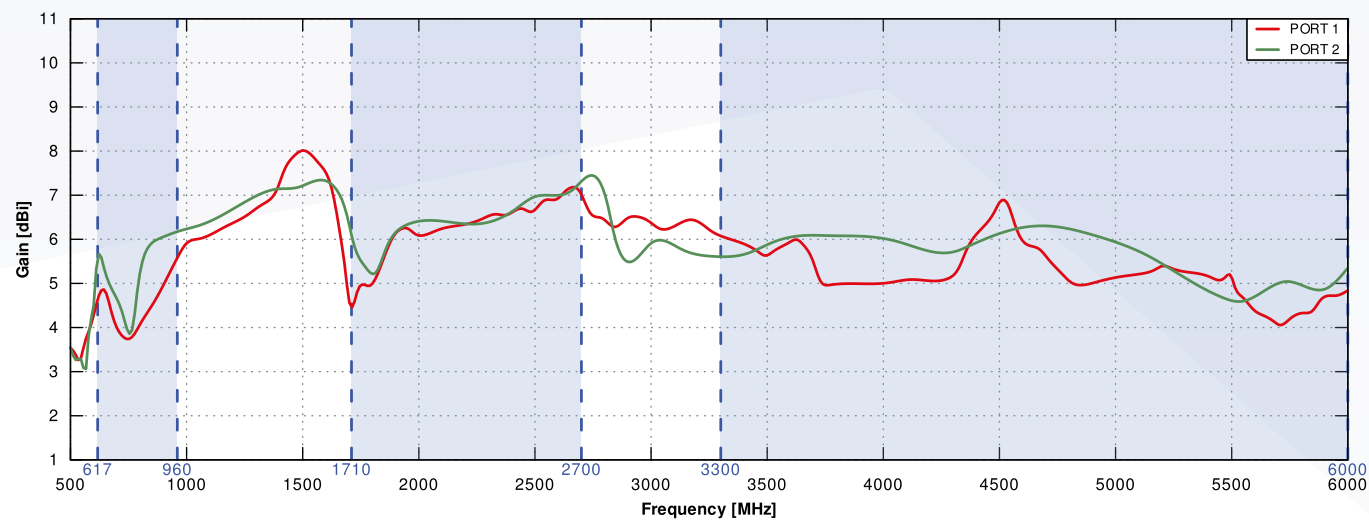


WI-FI VSWR

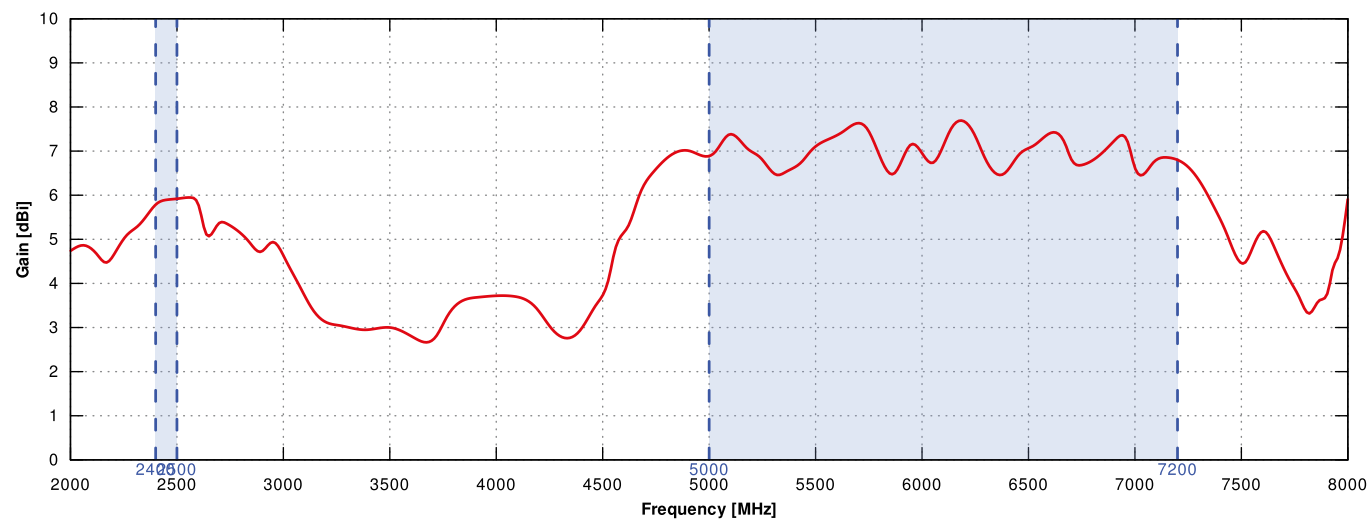




LTE Gain



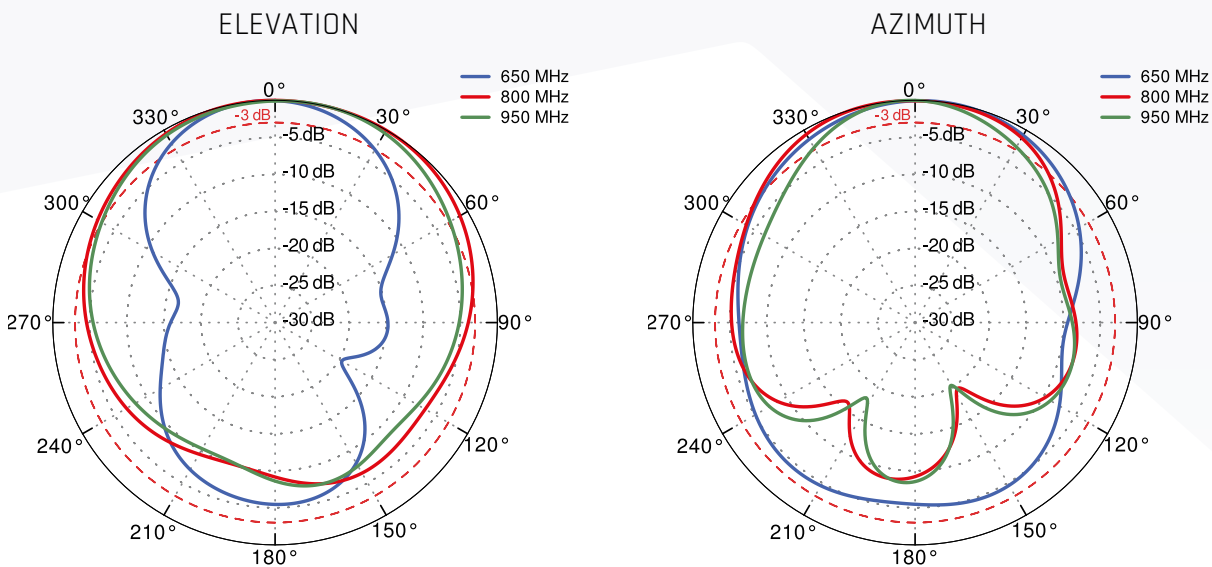
WI-FI Gain



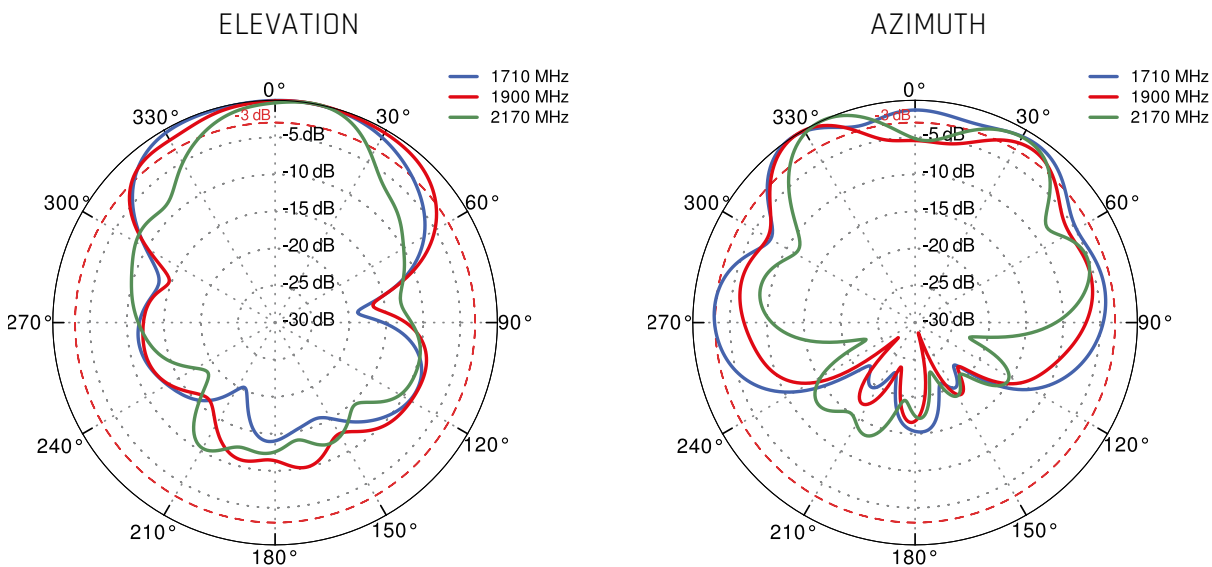




PORT 1 - 5G/LTE from 650MHz to 950MHz

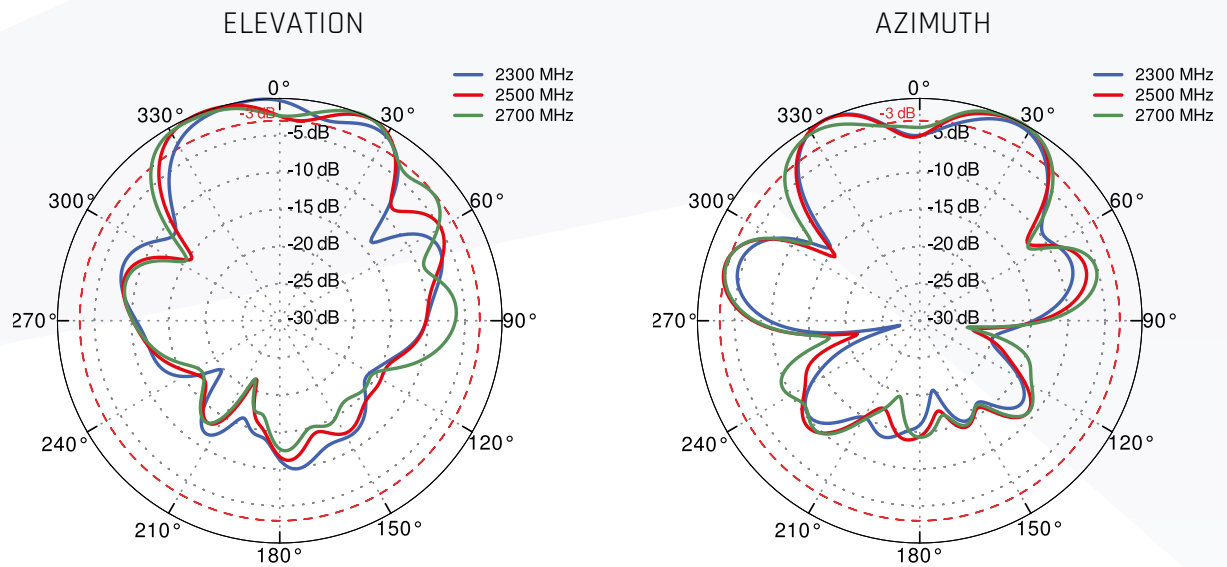


PORT 1 - 5G/LTE from 1.71GHz to 2.17GHz

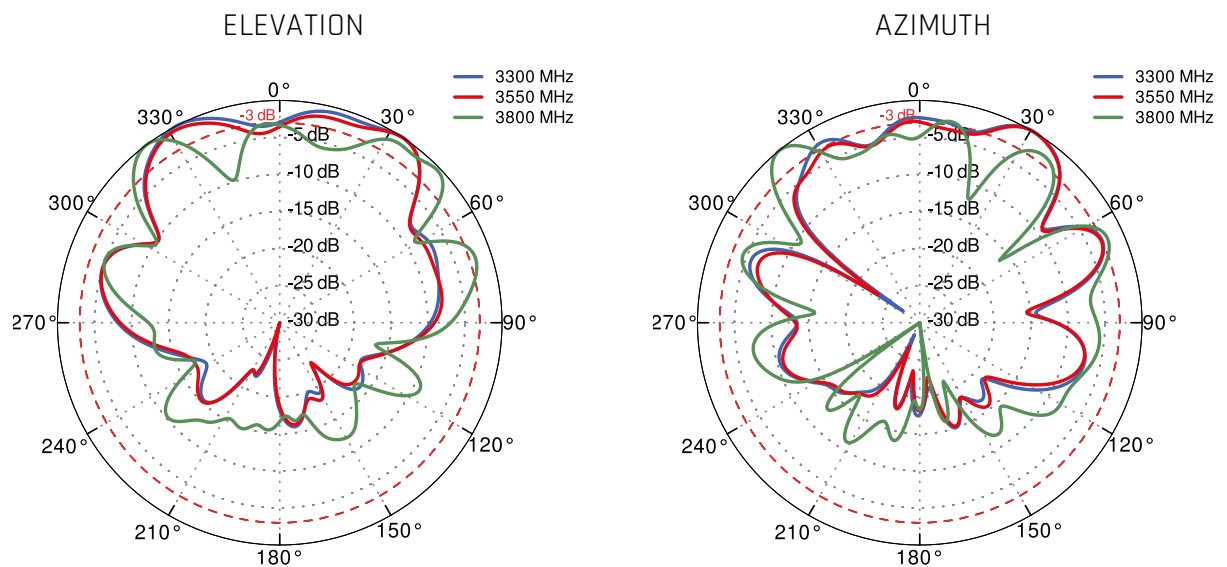




## PORT 1 - 5G/LTE from 2.3GHz to 2.7GHz

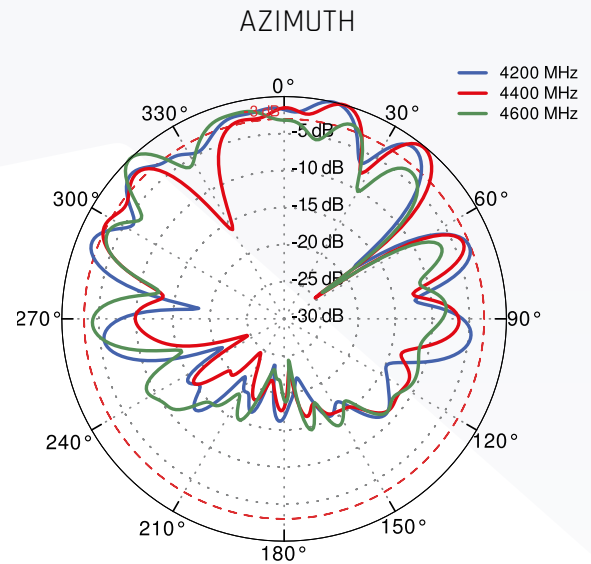
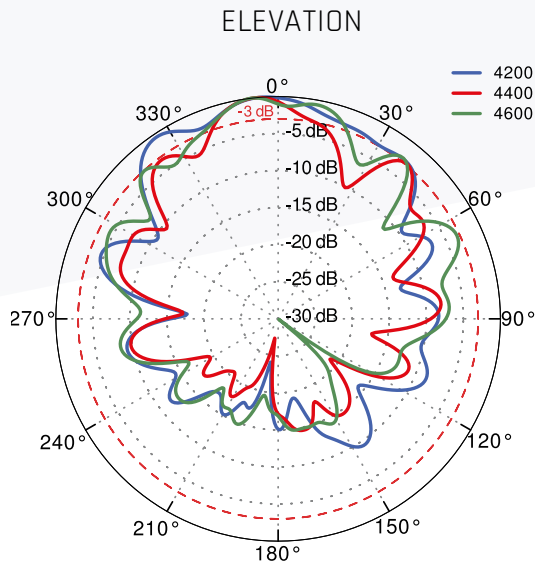


## PORT 1 - 5G/LTE from 3.3GHz to 3.8GHz

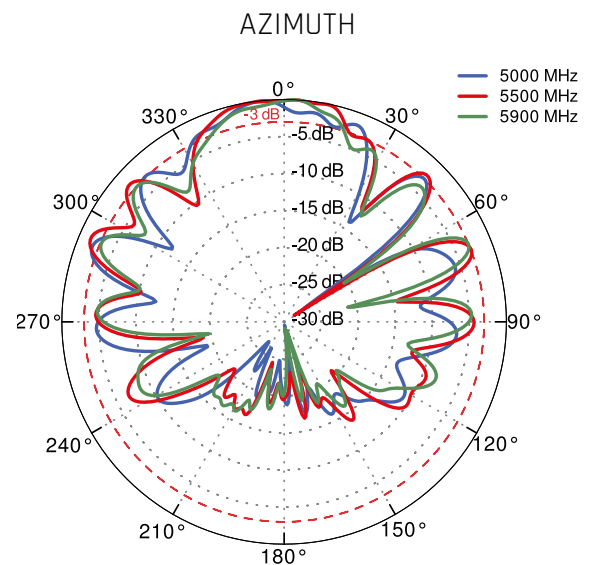
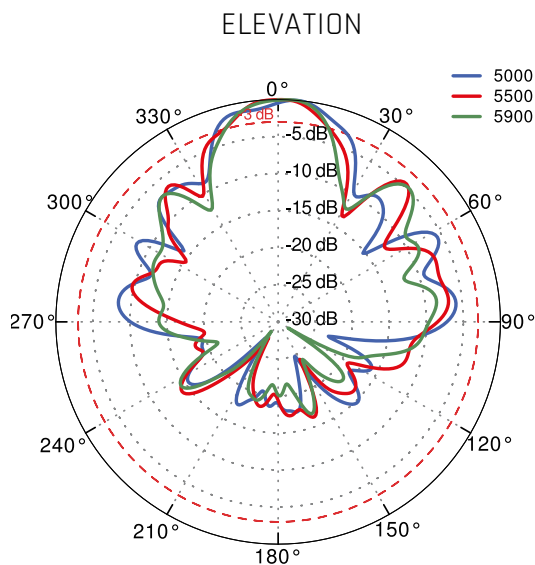




## PORT 1 - 5G/LTE from 4.2GHz to 4.6GHz

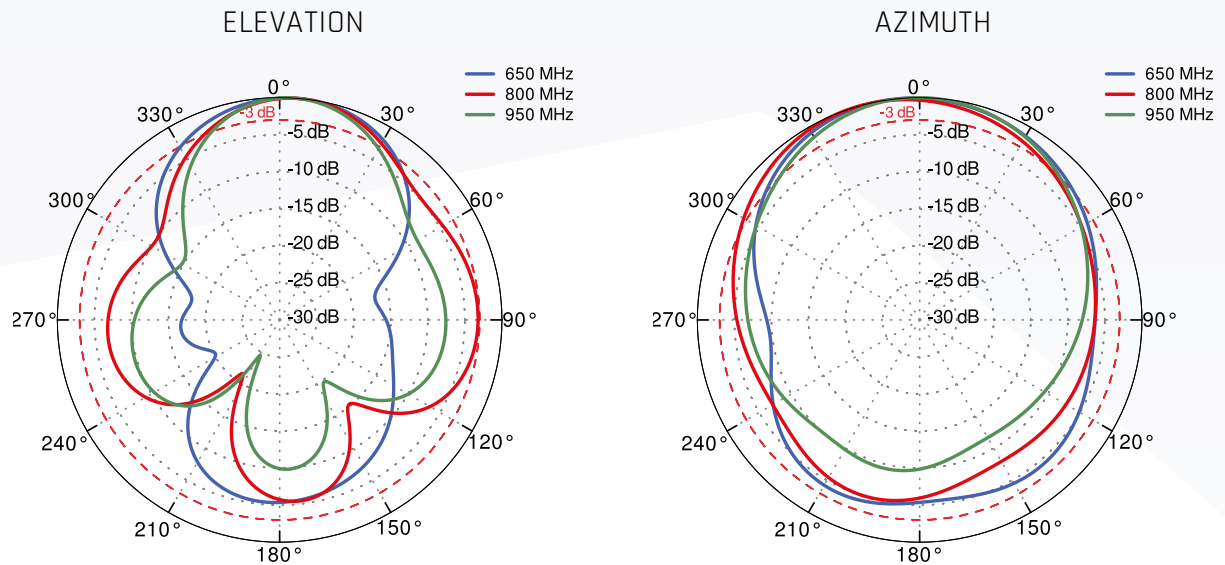


## PORT 1 - 5G/LTE from 5.0GHz to 5.9GHz

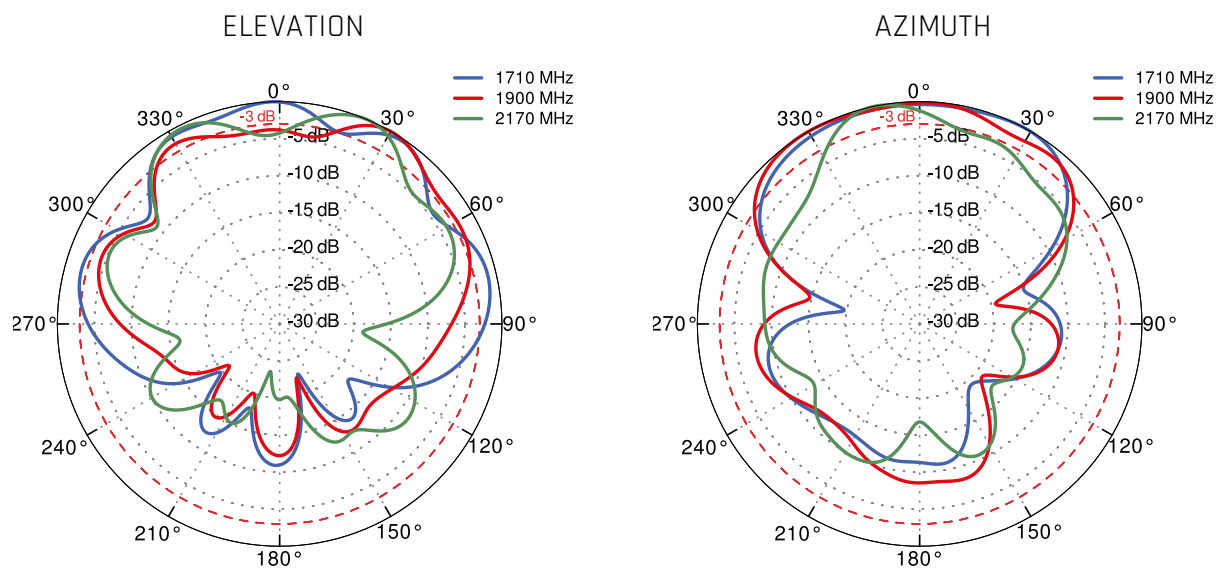




## PORT 2 - 5G/LT

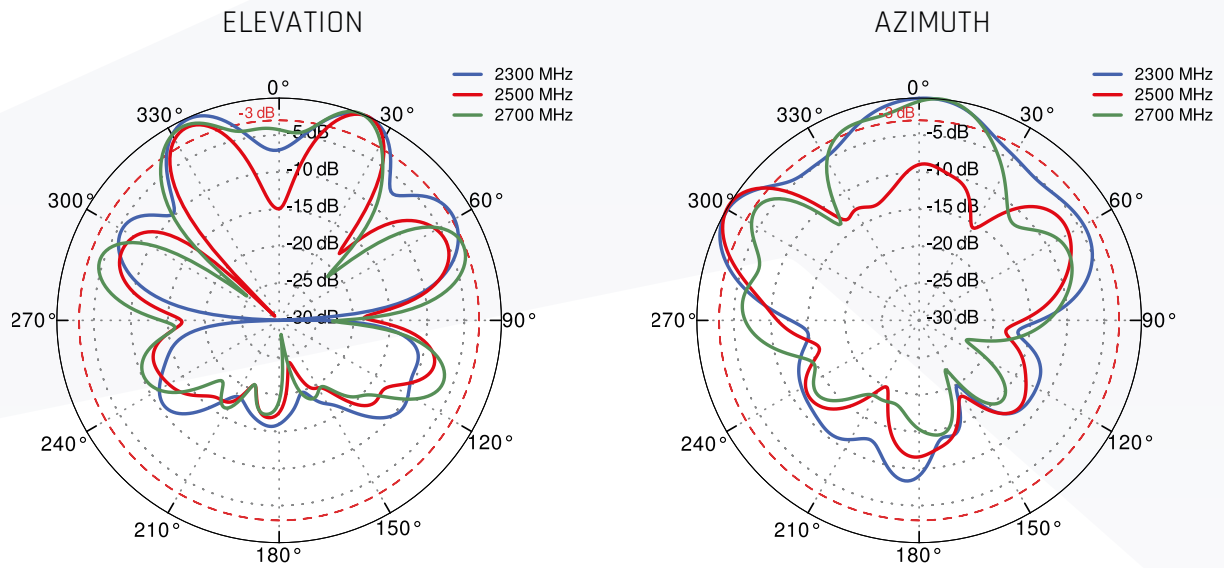


## PORT 2 - 5G/LTE from 1.71GHz to 2.17GHz

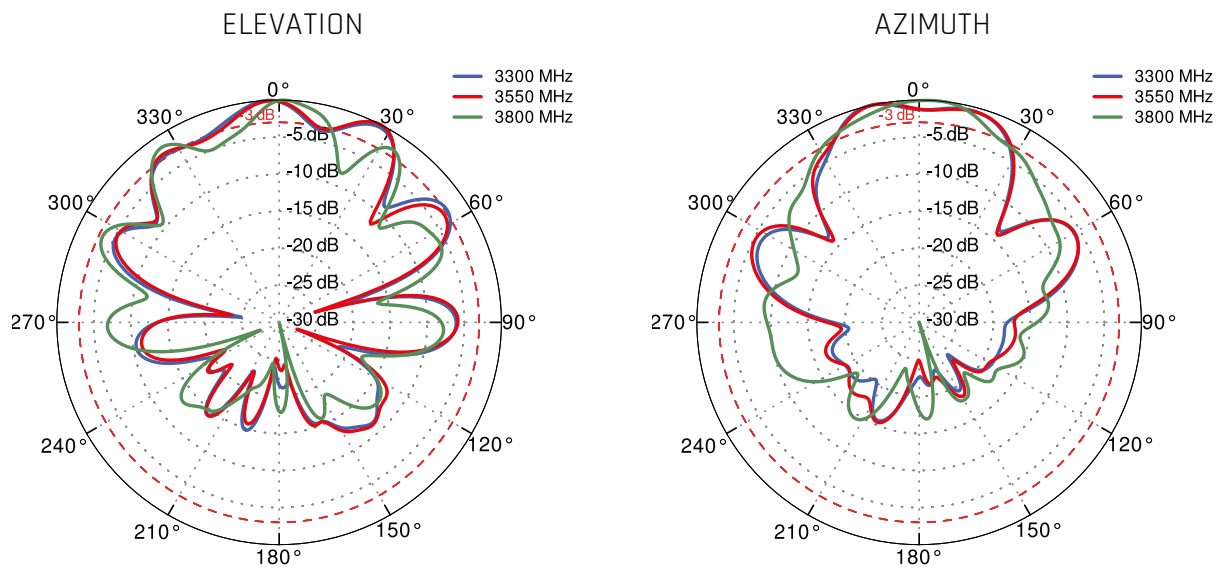




## 5G/LTE Port 2 from 2.3 GHz to 2.7 GHz

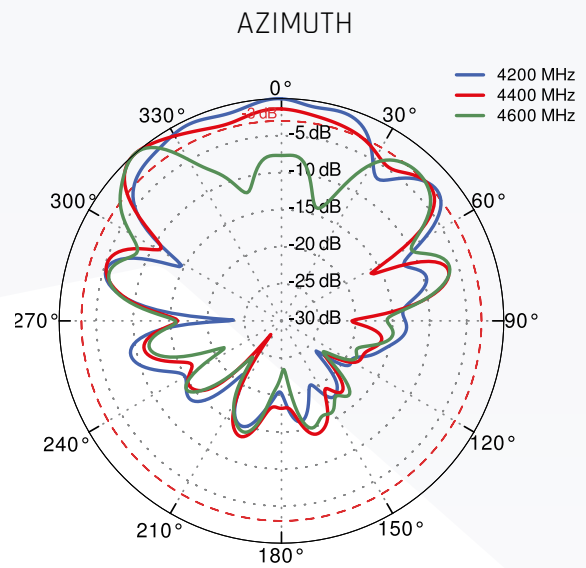
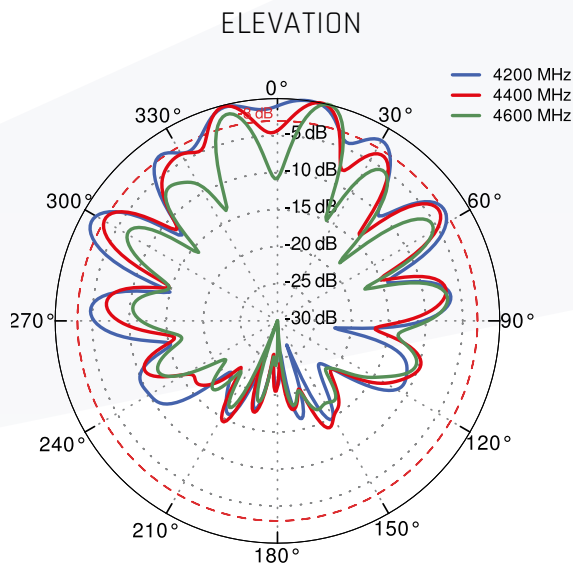


## PORT 2 - 5G/LTE from 3.3GHz to 3.8GHz

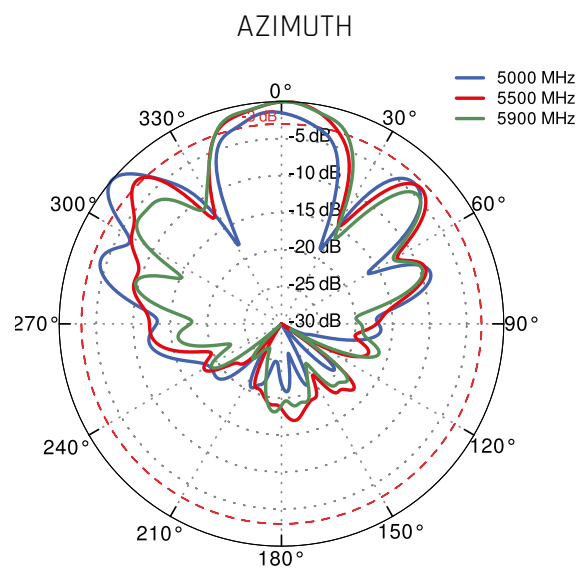
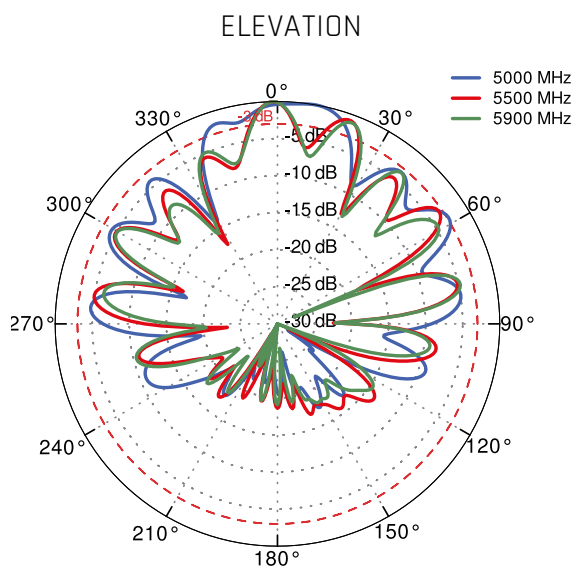




## 5G/LTE Port 2 from 4.2 GHz to 4.6 GHz



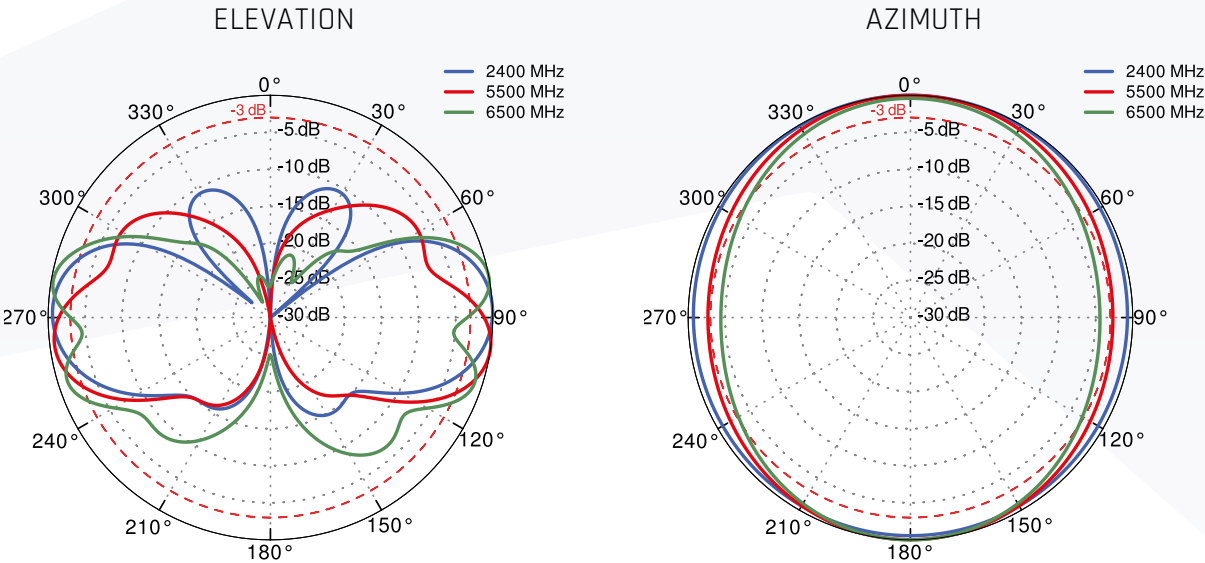
## PORT 2 - 5G/LTE from 5.0GHz to 5.9GHz





# PLOTS

Wi-Fi From 2.4 GHz to 6.5 GHz



# DIMENSIONS

