



THOR19

Thunder Series

Integrated 5G/LTE Omnidirectional Antenna
for Ericsson (Cradlepoint) R1900

- Integrated Multi-band 5G Omnidirectional MIMO Antennas
- Cavity to install Ericsson R1900 Router
- Robust, IP67 Rated Enclosure

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Thunder Series THOR19

Integrated Omnidirectional Antenna for Ericsson R1900

INTEGRATED MULTI-BAND 5G OMNI ANTENNA + WI-FI OMNI ANTENNA + GNSS ANTENNA + PLACE TO INSTALL ERICSSON (CRADLEPOINT) R1900 (ALL-IN-ONE)

The Taoglas **THOR19** all-in-one antenna for Ericsson (Cradlepoint) R1900 routers is a perfect outdoor device for mobile and fixed installations like industrial, public, CCTV, hotspots, yachts, boats, campers, and RVs. It has embedded omnidirectional 5G, Wi-Fi®, Bluetooth®, and GNSS antennas. If you use Ericsson (Cradlepoint) R1900 with the THOR19 Thunder Omnidirectional antenna, you get an integrated complete solution with embedded router and multi-band antennas in one enclosure.

5G**Wi Fi** 2.4GHz
DUALBAND 5GHz**GPS****BLUETOOTH****617-6000MHz****6 dBi****OMNI
DIRECTIONAL****IP 67****-40° TO +80°**

OUTDOOR ANTENNA WORKS IN ANY
WEATHER CONDITIONS, IP67



ANTENNA PERFECTLY MATCHED WITH
THE CRADLEPOINT R1900



ALL ANTENNAS AND CRADLEPOINT
ROUTER INTEGRATED IN ONE
ENCLOSURE



MADE IN **EUROPE**





5G/LTE SPECIFICATION

FREQUENCY	617 - 960 MHz 1.7 - 2.7 GHz 3.3 - 4.7 GHz 5.2 - 6.0 GHz
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, 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, n47, n48, n53, n65, n66, n67, n71, n77, n78, n80, n81, n82, n83, n84, n85, n86, n89, n90, n95, n97, n98, n100, n101, n256
GAIN	617 - 960 MHz : 3 dBi 1.7 - 2.2 GHz : 4 dBi 3.3 - 4.7 GHz : 4.5 dBi 5.2 - 6.0 GHz : 2.5dBi
VSWR	<1.80, max <2.00
BEAMWIDTH	360°/35° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω



WI-FI SPECIFICATION

FREQUENCY	2.4 - 2.5 GHz 5.0 - 7.2 GHz
GAIN	2.4 - 2.5 GHz: 6dBi 5 GHz: 7.5dBi 7 GHz: 7.5dBi
VSWR	< 1.50, max < 2.00
BEAMWIDTH	360°/25° +/- 5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω

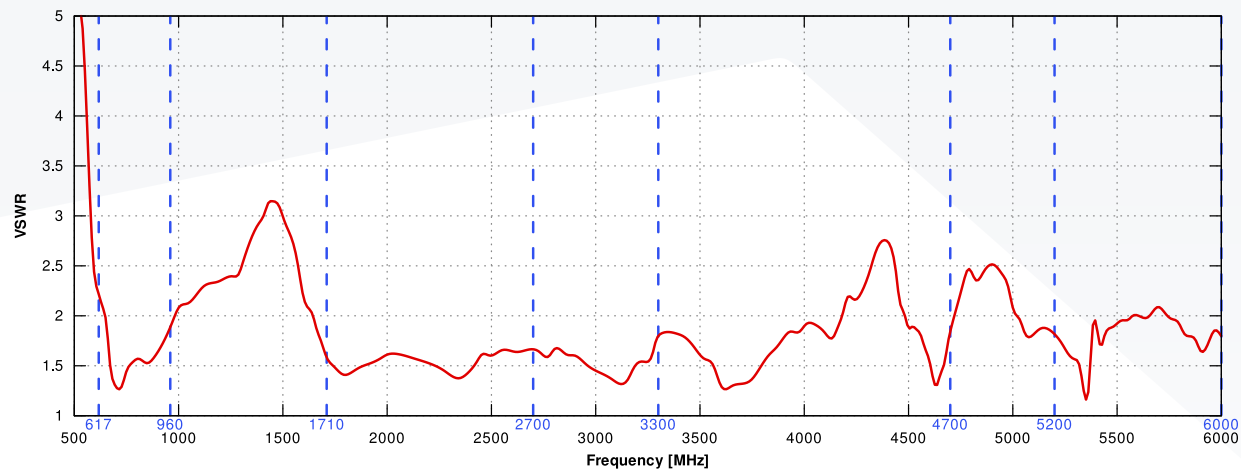
MECHANICAL SPECIFICATION

MATERIAL	ABS, aluminum, PTFE, Fiberglass
INGRESS PROTECTION	IP67
CONNECTOR TYPE	RJ45
DIMENSIONS	290.0 x 480.0 x 76.0 mm 11.41 x 18.89 x 2.99 inch
WEIGHT	1.8 kg 3.97 lbs
OPERATING TEMPERATURE	From -40°C to 75°C From -40°F to 167°F

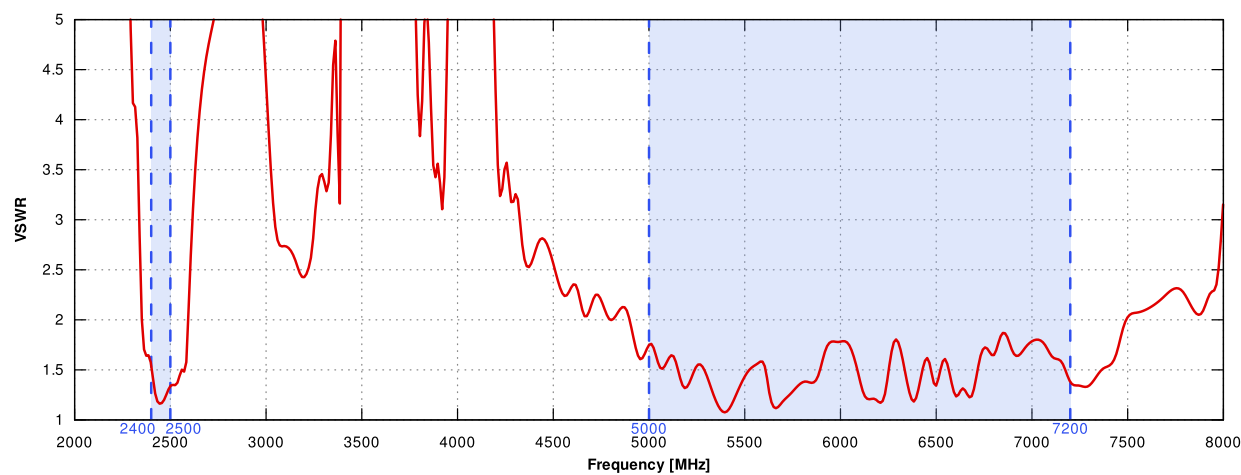


PLOTS

VSWR for 5G/LTE antenna

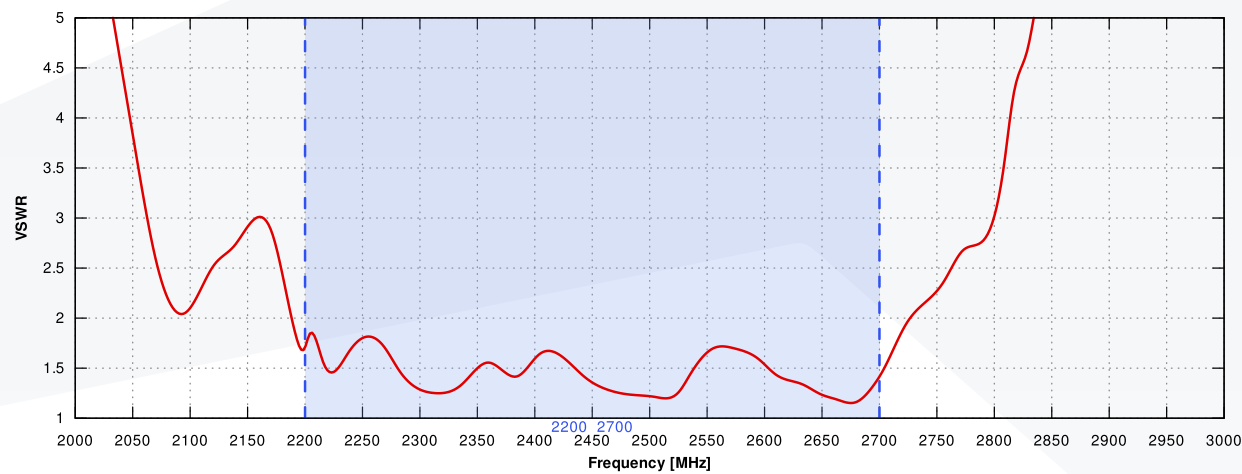


VSWR for Wi-Fi antenna

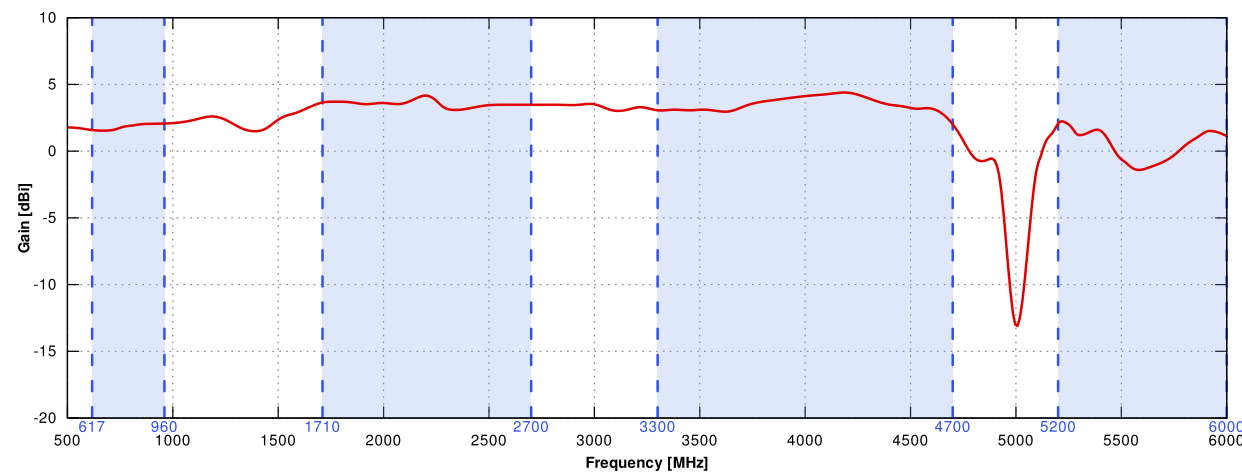




VSWR for Bluetooth antenna

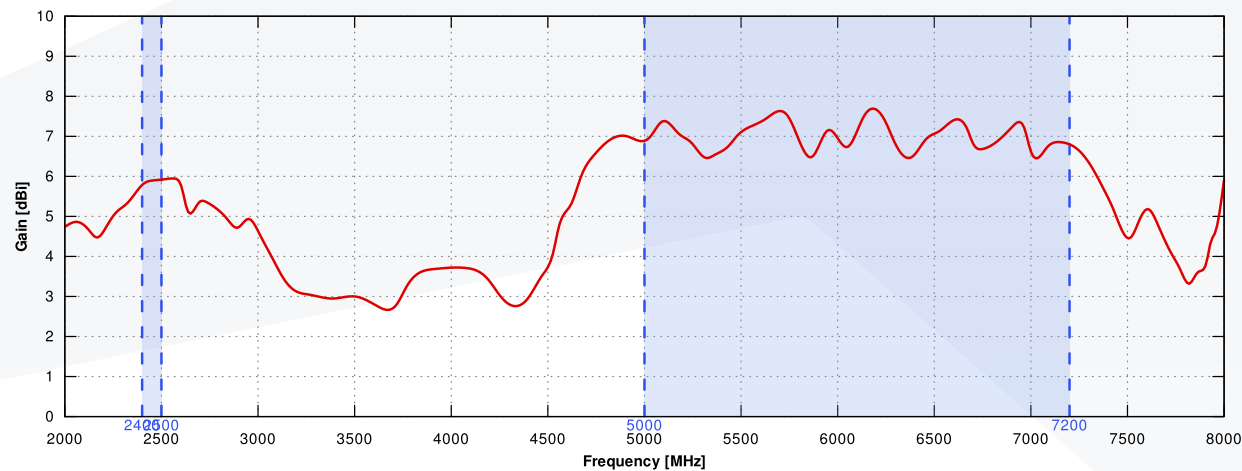


Gain for 5G/LTE antenna

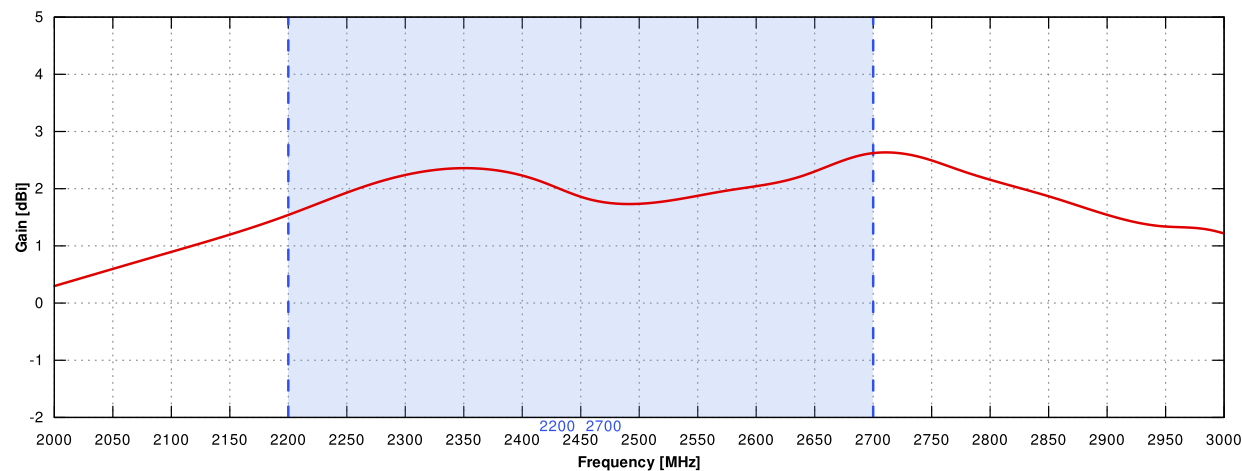




Gain for Wi-Fi antenna

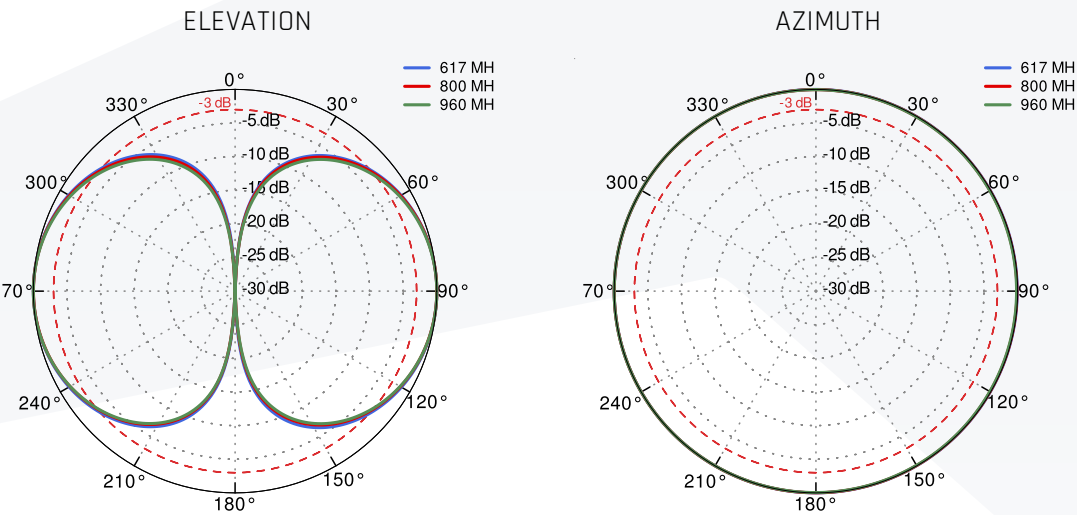


Gain for Bluetooth antenna

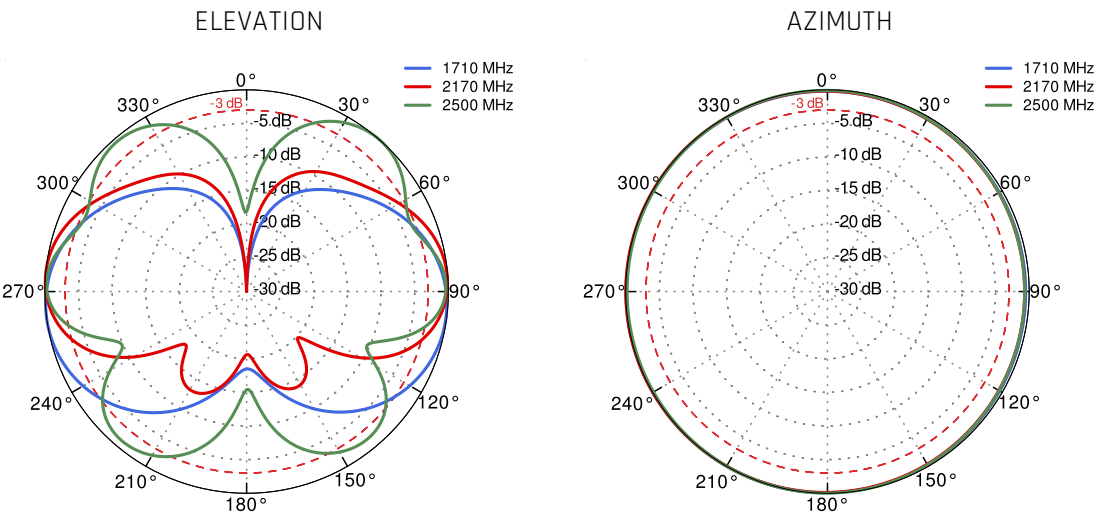




5G/LTE from 617MHz to 960MHz

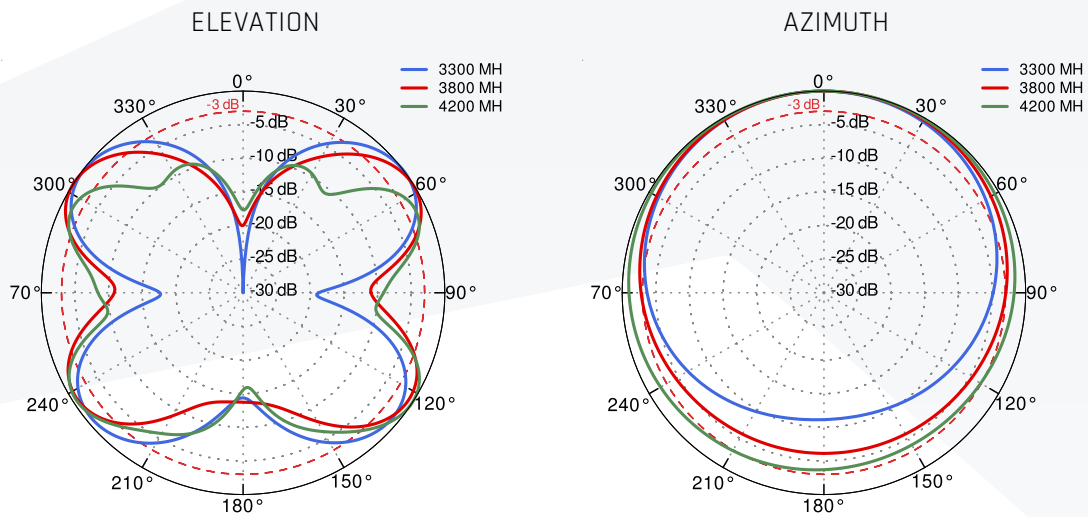


5G/LTE from 1.71GHz to 2.5GHz

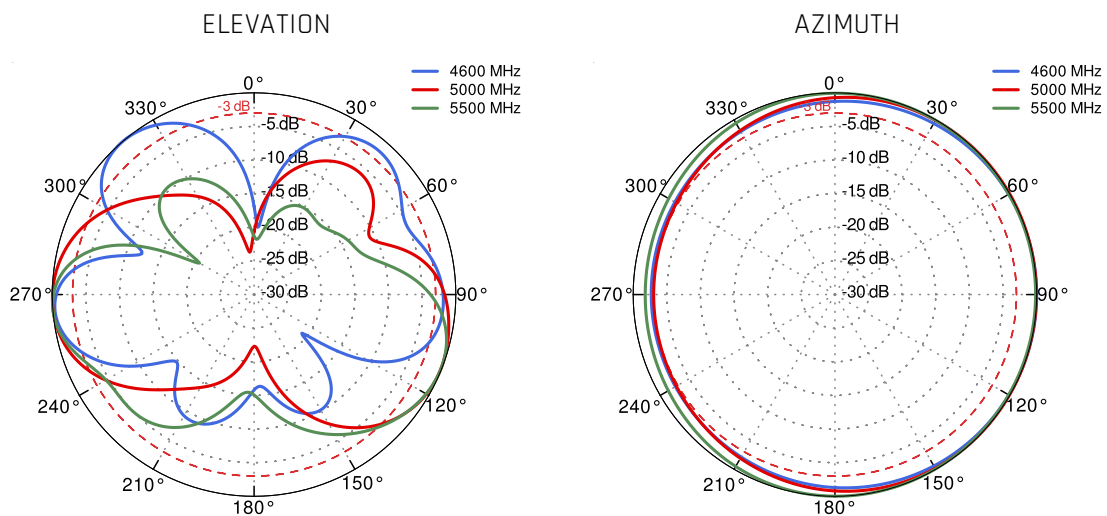




5G/LTE from 3.3GHz to 4.2GHz

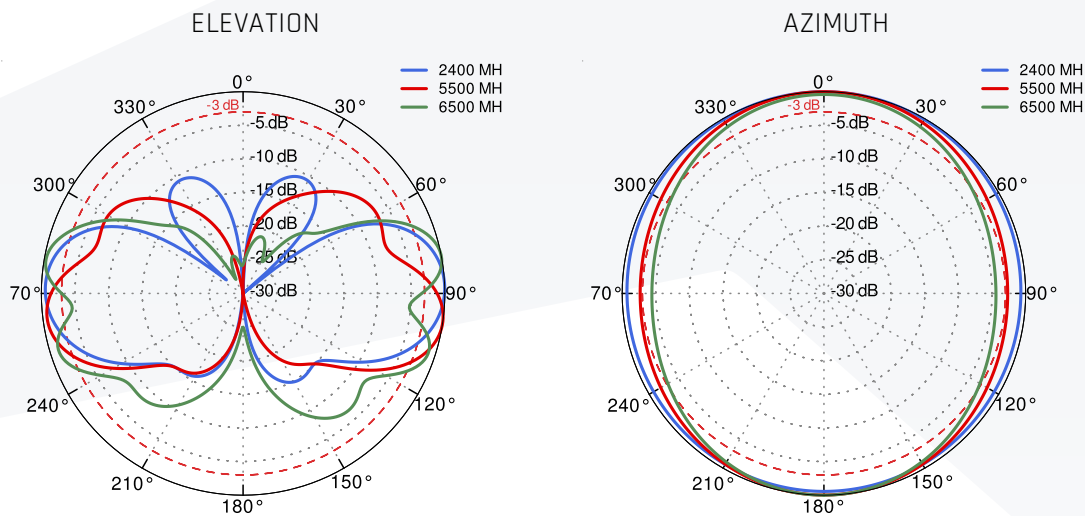


5G/LTE from 4.6 GHz to 5.5 GHz

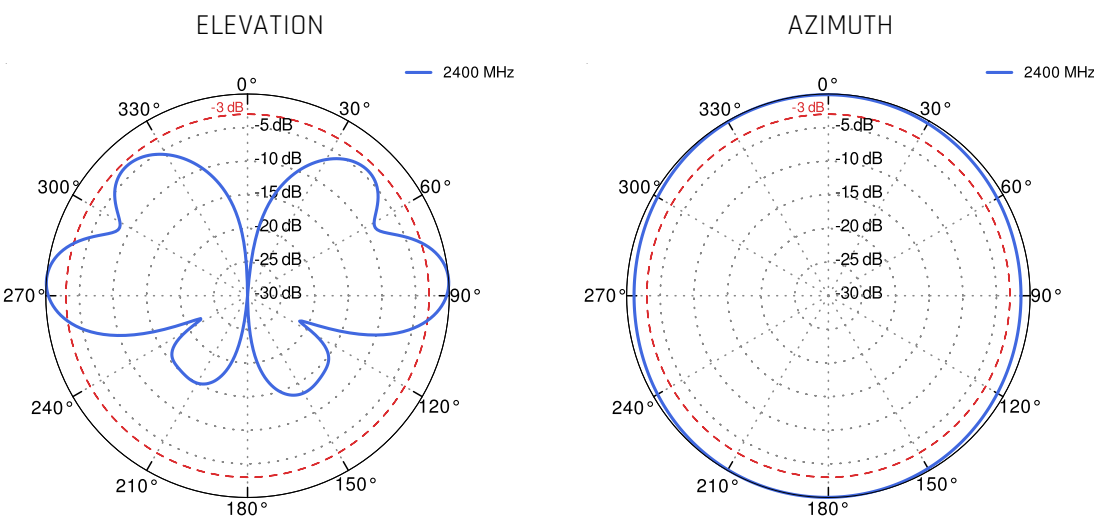




Wi-Fi From 2.4 GHz to 6.5 GHz



Bluetooth





GNSS Specifications

GNSS Frequency Band							
GPS/QZSS	L1 1575.42MHz	L2 1227.6MHz	L5 1176.45MHz	L6 1278.75MHz			
	☒	☐	☐	☐			
GLONASS	L5R 1176.45MHz	L3PT 1201.5MHz	L2PT 1246MHz	L1CR 1575.42MHz	L1PT 1602MHz		
	☐	☐	☐	☒	☒		
Galileo	E5a 1176.45MHz	E5b 1201.5MHz	E4 1215MHz	E3 1256MHz	E6 1278.75MHz	E2 1561MHz	E1 1575.42MHz
	☐	☐	☐	☐	☐	☐	☒
BeiDou	B1 1561MHz	B2 1207.14MHz	B3 1268.52MHz				
	☒	☐	☐				
Compass	E5B(B2)/ E6(B3) 1268.56MHz	E2(B1) 1561MHz					
	☐	☒					
SBAS	Omnistar 1542.5MHz	WAAS/EGN OS 1575.42MHz					
	☐	☒					

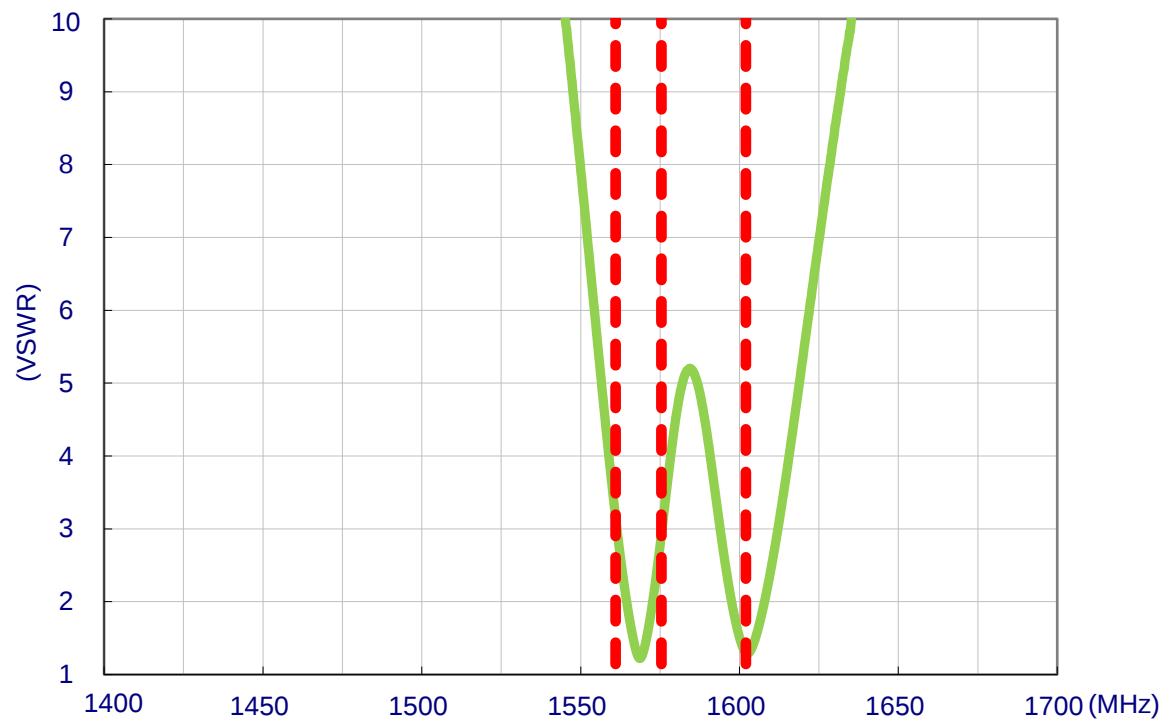
Electrical			
Frequency	BeiDou	GPS/GALILEO	GLONASS
	1561MHz	1575.42MHz	1602MHz
Efficiency (%)	49.8	46.5	60.1
Average Gain (dBi)	-3.03	-3.33	-2.21
Peak Gain (dBi)	2.44	1.72	1.67
Impedance	50Ω		
Polarization	RHCP		



LNA Specification			
Gain (dB)	14.8 ± 1	15.0 ± 1	15.0 ± 1
NF (dB)	2.4 ± 0.2	1.9 ± 0.2	2.2 ± 0.2
Input Voltage	+1.8 to +5 VDC		
Power Consumption	3 to 24.5mA typical		
Out-Of-Band Attenuation (dB)	10-500MHz	> 60	
	500-850MHz	> 40	
	850-1000MHz	> 35	
	1000-1500MHz	> 25	
	1700-2300MHz	> 19	
	2300-5000MHz	> 30	
	5000-6000MHz	> 25	

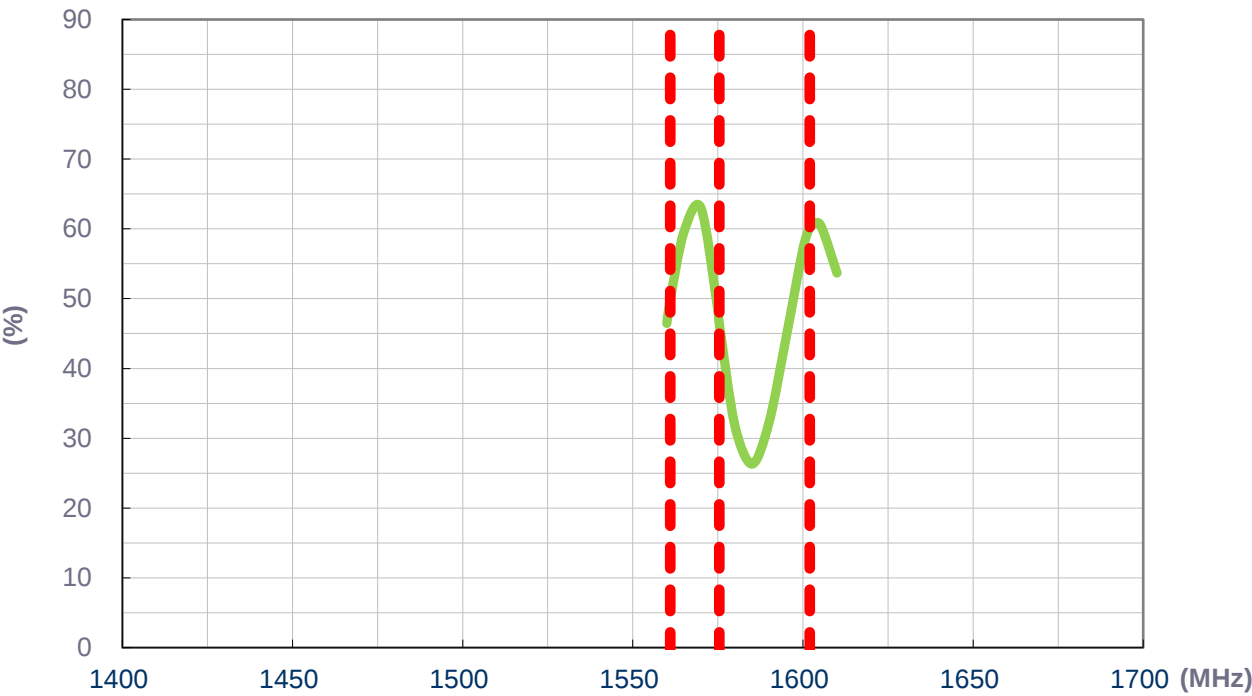
PLOTS

VSWR



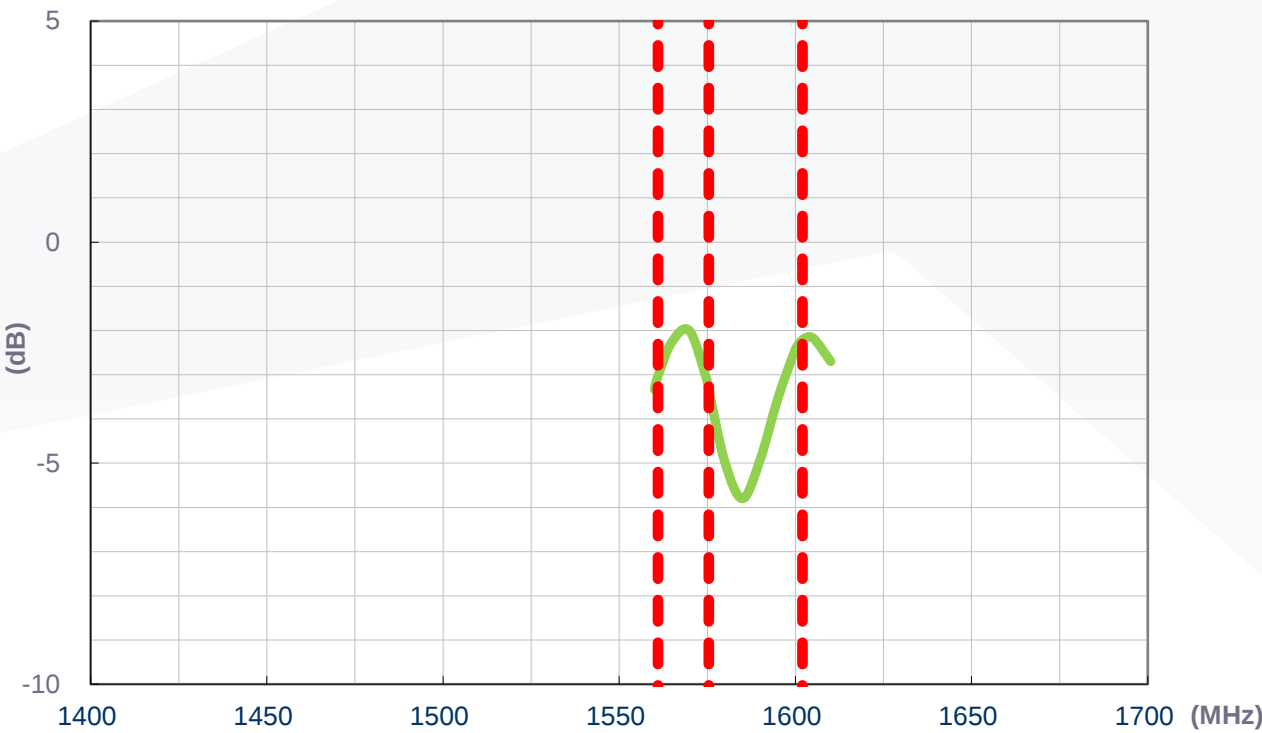


Efficiency

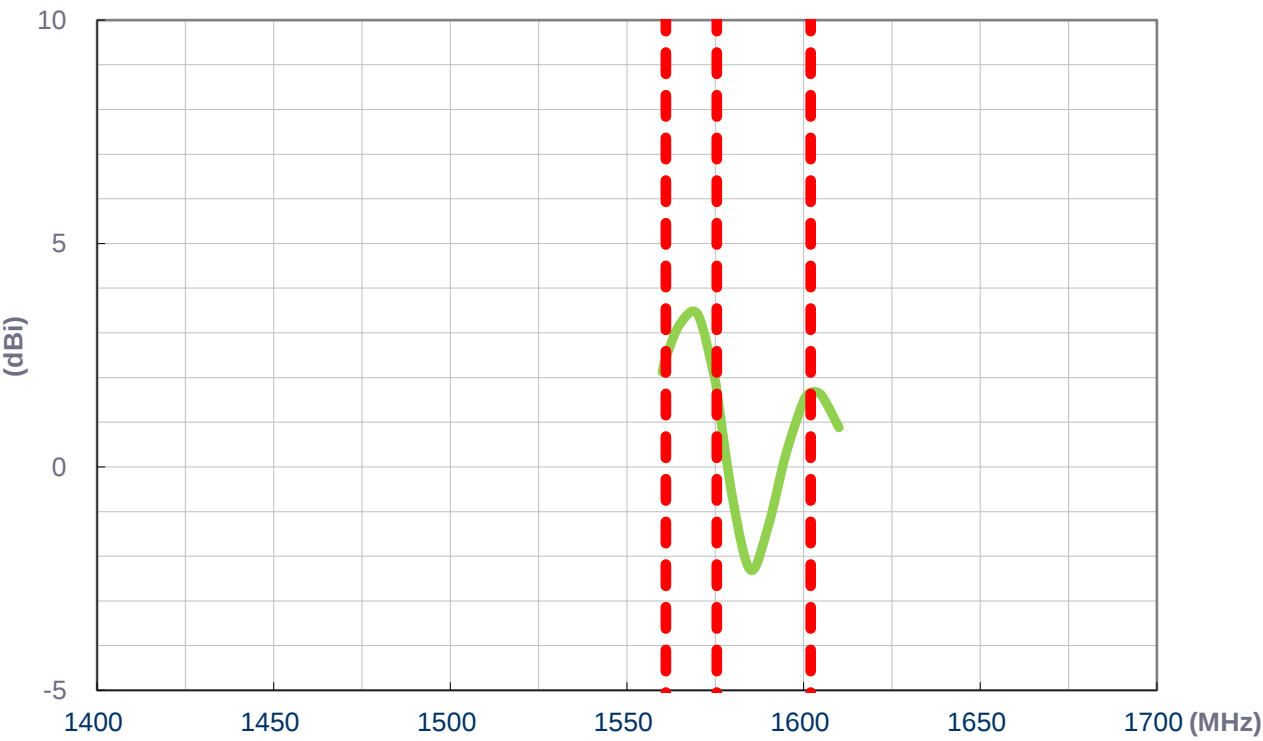




Average Gain



Peak Gain





DIMENSIONS

