

QuWave Fusion R1900

5G/LTE, WI-FI, GPS AND BLUETOOTH CONNECTIVITY SYSTEM INTEGRATED WITH ERICSSON CRADLEPOINT R1900 and STARLINK Mini.

QuWave Fusion R1900 is an all-in-one outdoor solution combining Starlink Mini satellite connectivity with the 5G/LTE capabilities of the Ericsson Cradlepoint R1900 router. The IP67 enclosure integrates omnidirectional 5G/LTE and Wi-Fi antennas, an active GPS antenna, Bluetooth connectivity, a power-distribution system and dedicated Starlink Mini mounting hardware.

The enclosure includes dedicated Ethernet connectors and internal couplers for connecting the Ericsson Cradlepoint R1900 directly to the Starlink terminal. This allows Starlink Mini to operate as a WAN connection alongside 5G/LTE, supporting network redundancy and failover while keeping the installation compact and protected.

The integrated industrial splitter accepts up to 90 W of IEEE 802.3bt PoE++ input power and provides Gigabit Ethernet data together with two DC outputs. With up to 80 W of combined DC output power, the system can power both the R1900 and a compatible Starlink terminal from a central PoE++ supply.

Ideal for emergency services, public transport, commercial fleets, marine operations, logistics, utility vehicles, remote worksites and other mission-critical applications requiring resilient satellite and cellular connectivity.



DEDICATED MOUNTING FOR STARLINK MINI



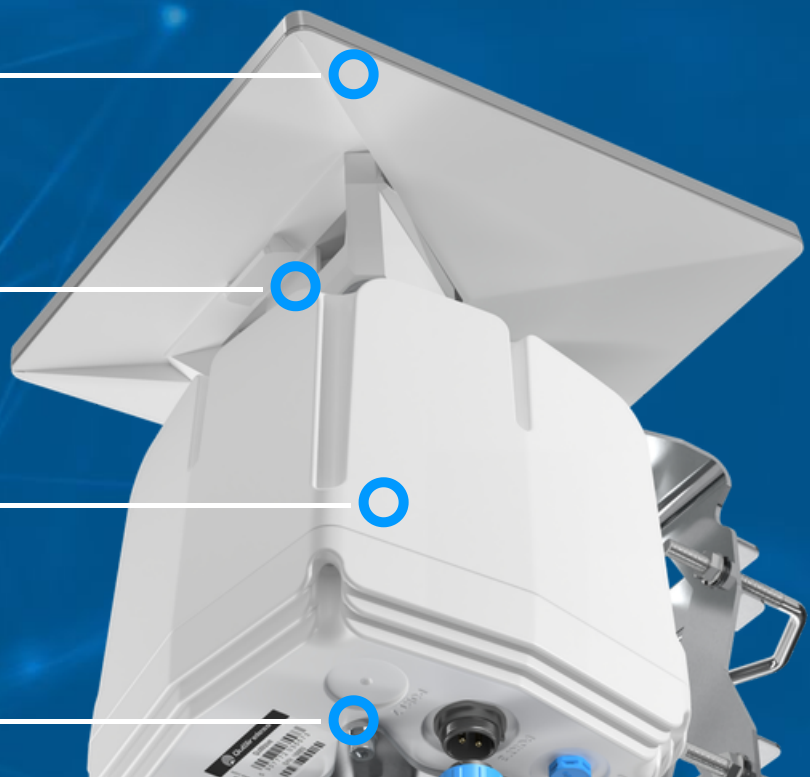
OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP67



ALL ANTENNAS AND ERICSSON ROUTER INTEGRATED IN ONE ENCLOSURE



GALVANIZED STEEL, WALL OR POLE MOUNTING BRACKET



5G / LTE ANTENNA SPECIFICATION

FREQUENCY	0.58 - 2.0 GHz 2.0 - 3.5 GHz 3.5 - 5.0 GHz 5.0 - 6.35 GHz
MAX. GAIN	0.58 - 2.0 GHz : 2 dBi 2.0 - 3.5 GHz : 3.2 dBi 3.5 - 5.0 GHz : 3.1 dBi 5.0 - 6.35 GHz : 3.8 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	4x SMA
CABLE TYPE	RG316

WI-FI / BT ANTENNA SPECIFICATION

FREQUENCY	2.4 - 2.5 GHz 5.0 - 7.2 GHz
MAX. GAIN	2.4 - 2.5 GHz: 2dBi 5.0 - 7.2 GHz: 5dBi
VSWR	< 2.50
BEAMWIDTH	360°/25°
POLARIZATION	Vertical
IMPEDANCE	50 Ω
CONNECTOR	3x 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
POLARIZATION	RHCP (right hand circularly polarized)

CONNECTOR

1x SMA

CABLE TYPE

RG174

 MECHANICAL SPECIFICATION**MATERIALS**

ASA, aluminum, PTFE

OUTER DIMENSIONS260 x 317 x 425.4 mm
10.24 x 12.48 x 16.75 inch**INGRESS PROTECTION**

IP67

OPERATING TEMPERATUREFrom -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**

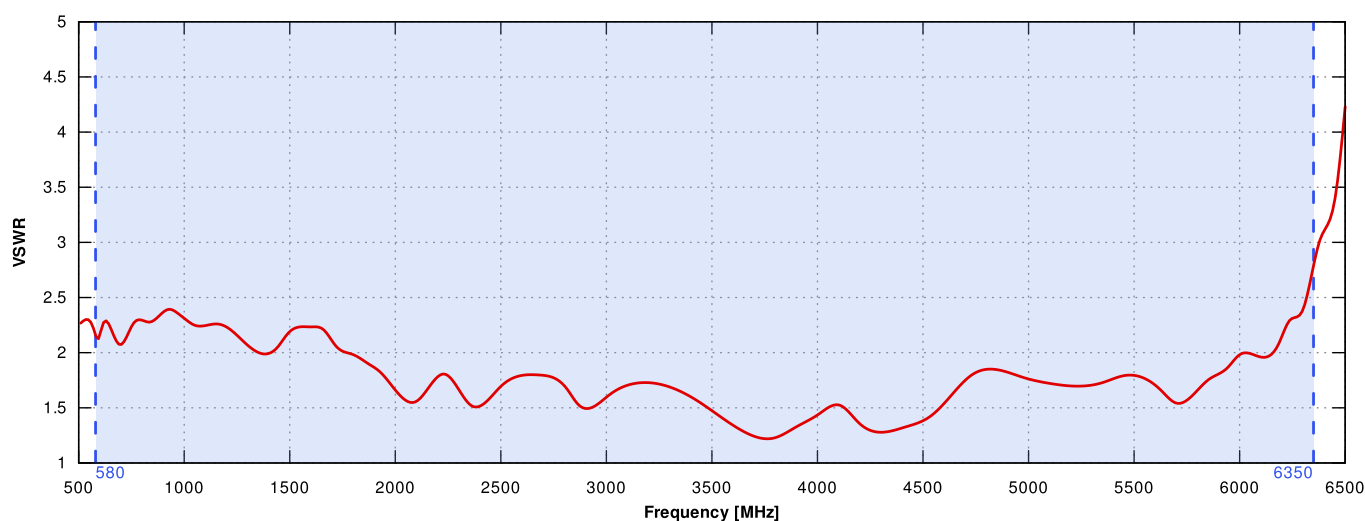
0.5 - 0.7 Nm

 COMPATIBLE ROUTERS

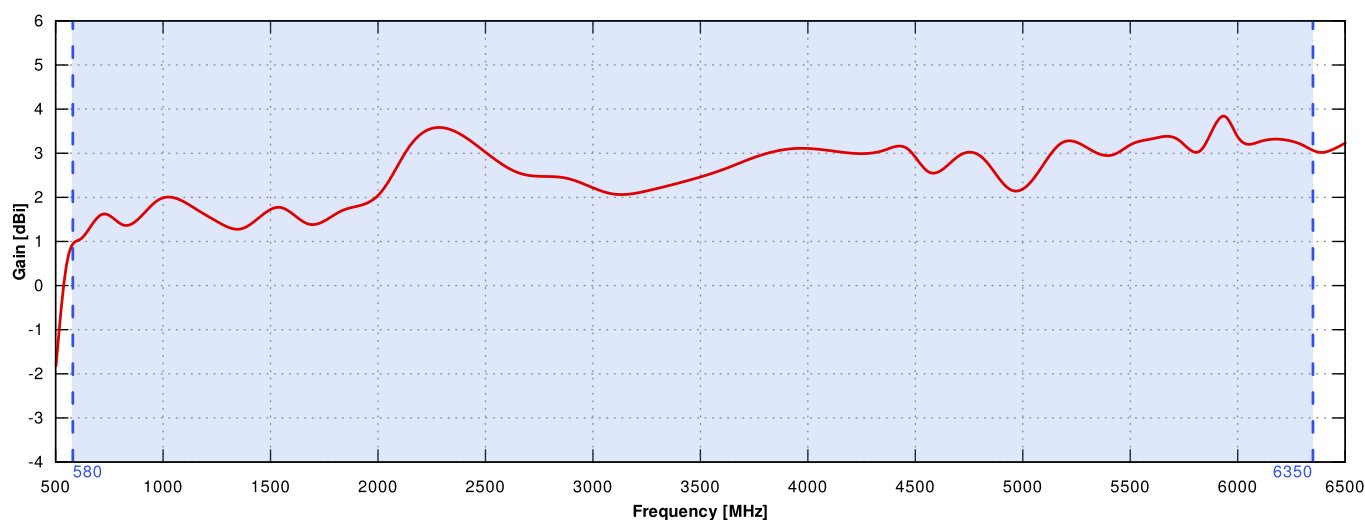
VARIANT: AER1900WSM

PLOTS

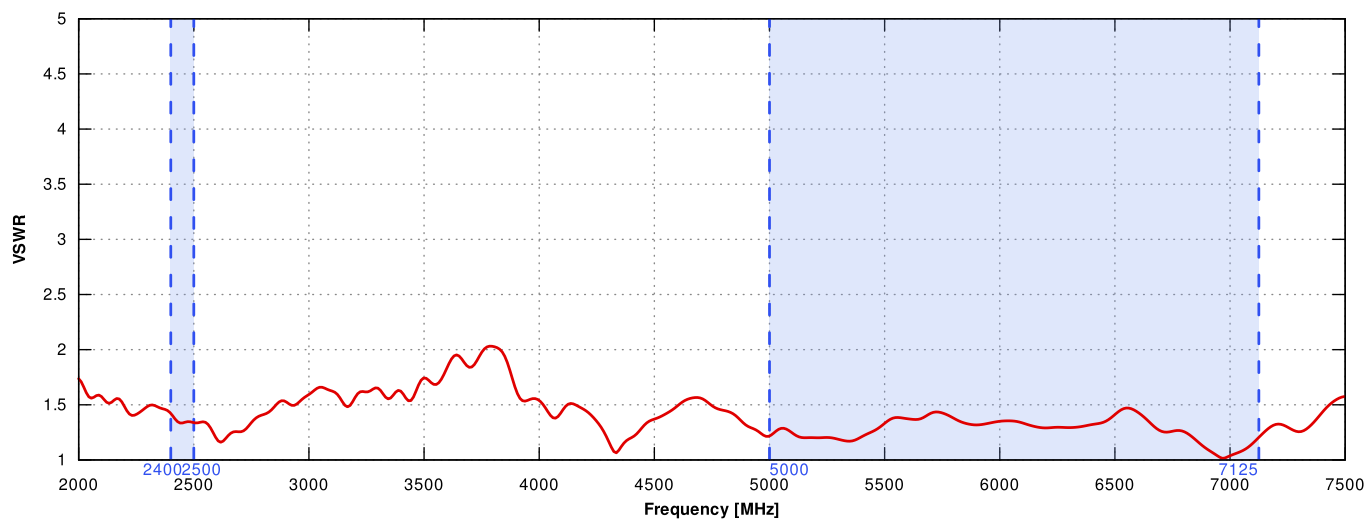
5G/LTE VSWR



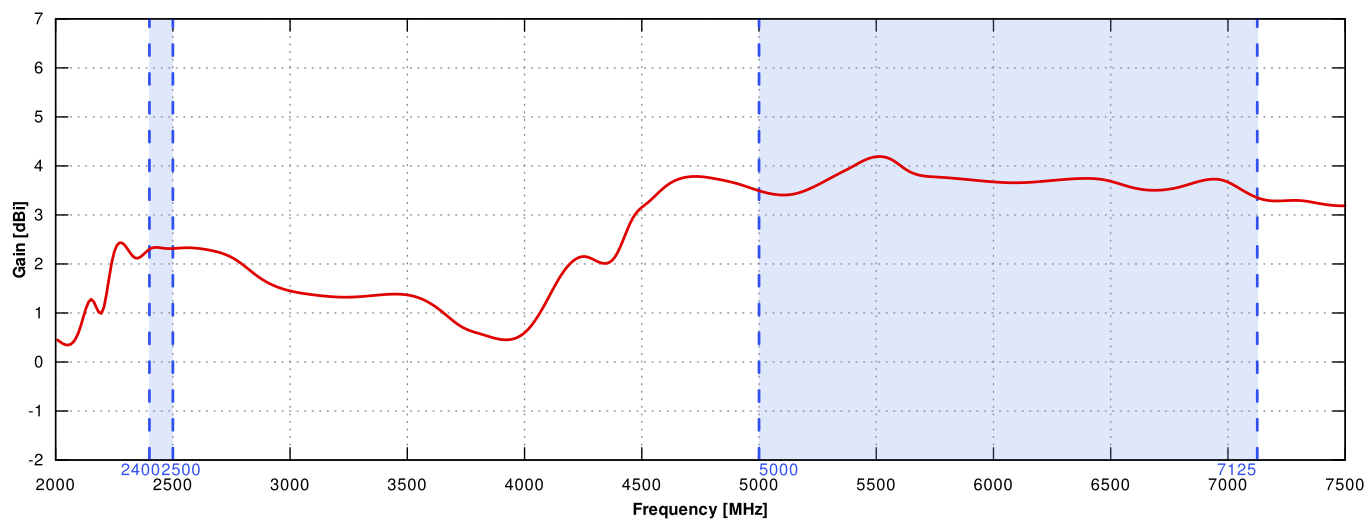
5G/LTE Gain



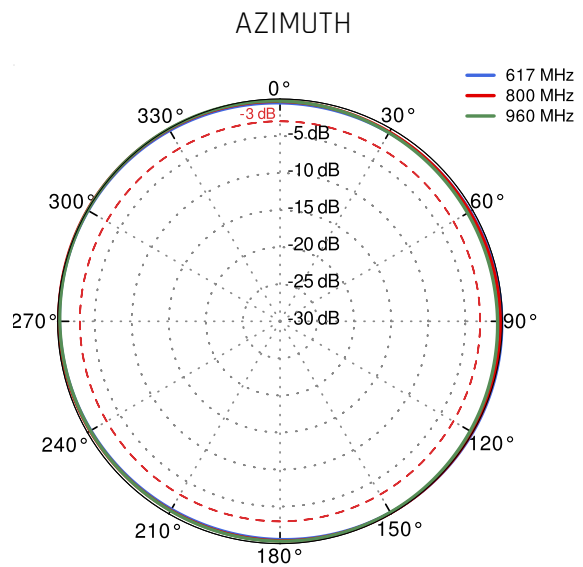
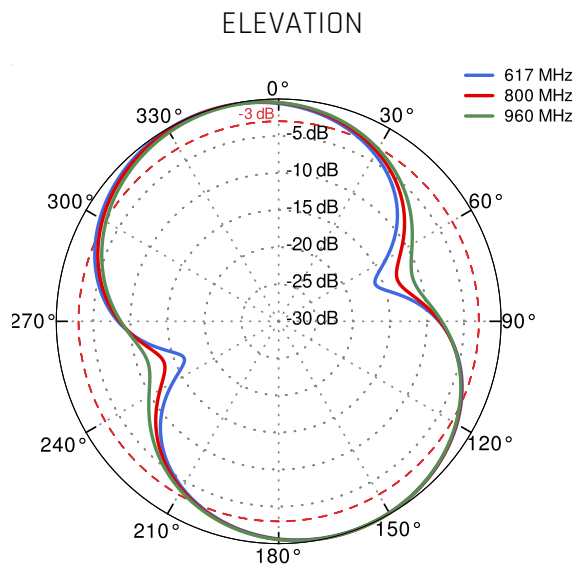
WI-FI VSWR



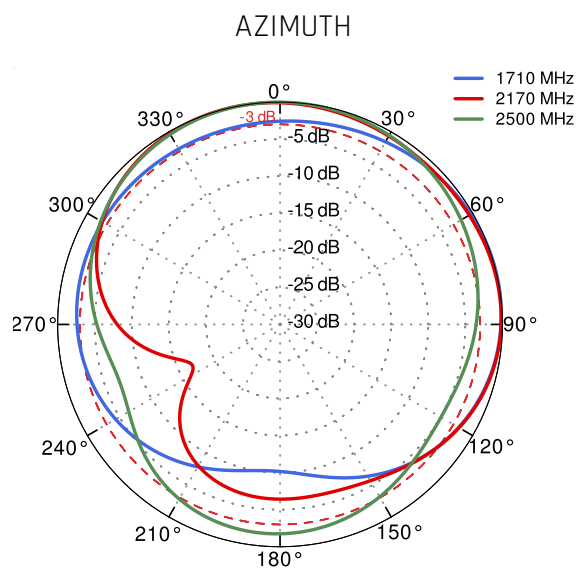
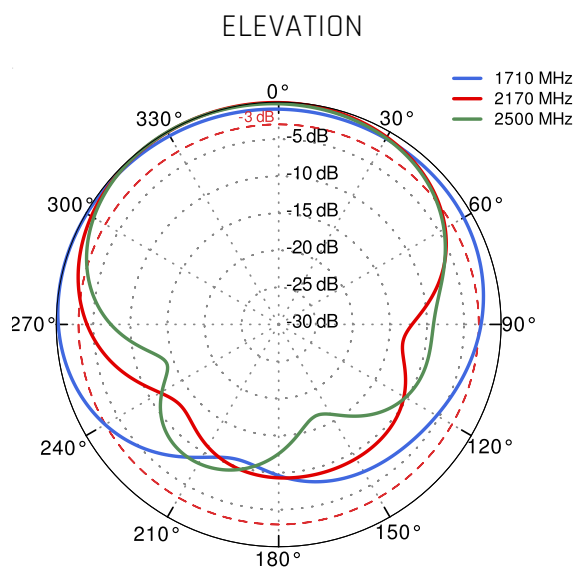
WI-FI Gain



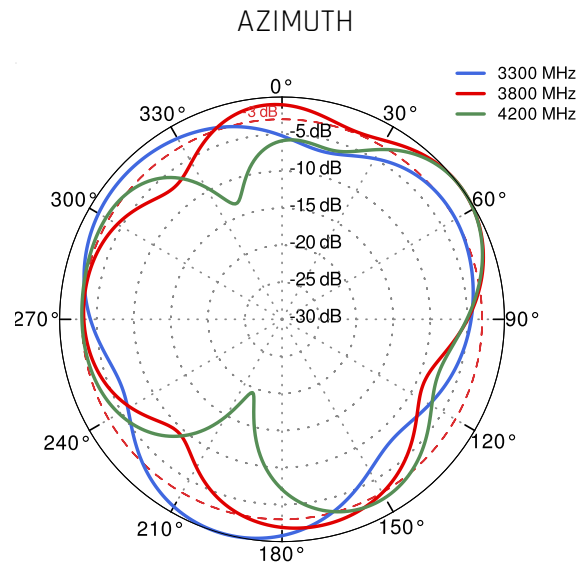
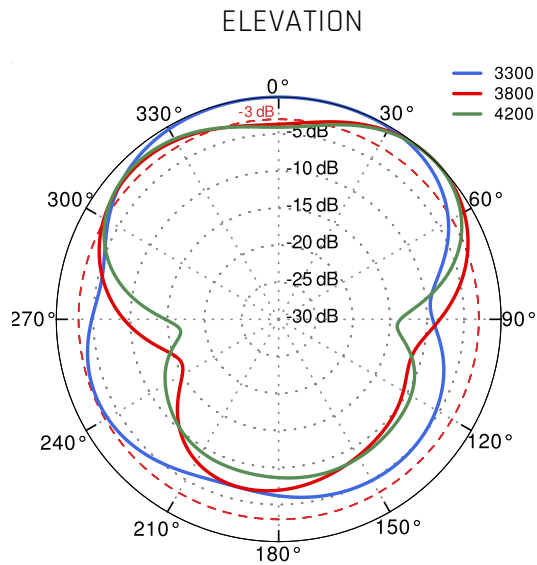
5G/LTE From 617MHz to 960MHz



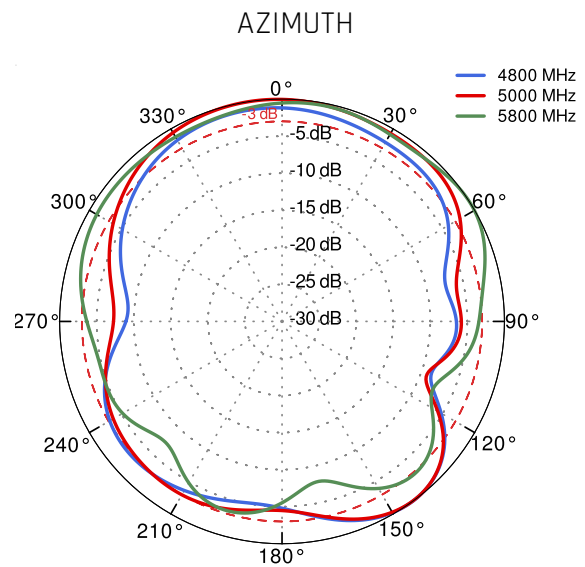
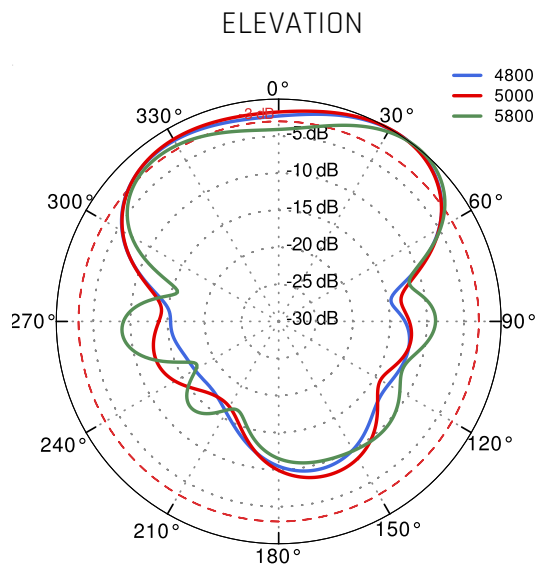
5G/LTE From 1.71GHz to 2.5GHz



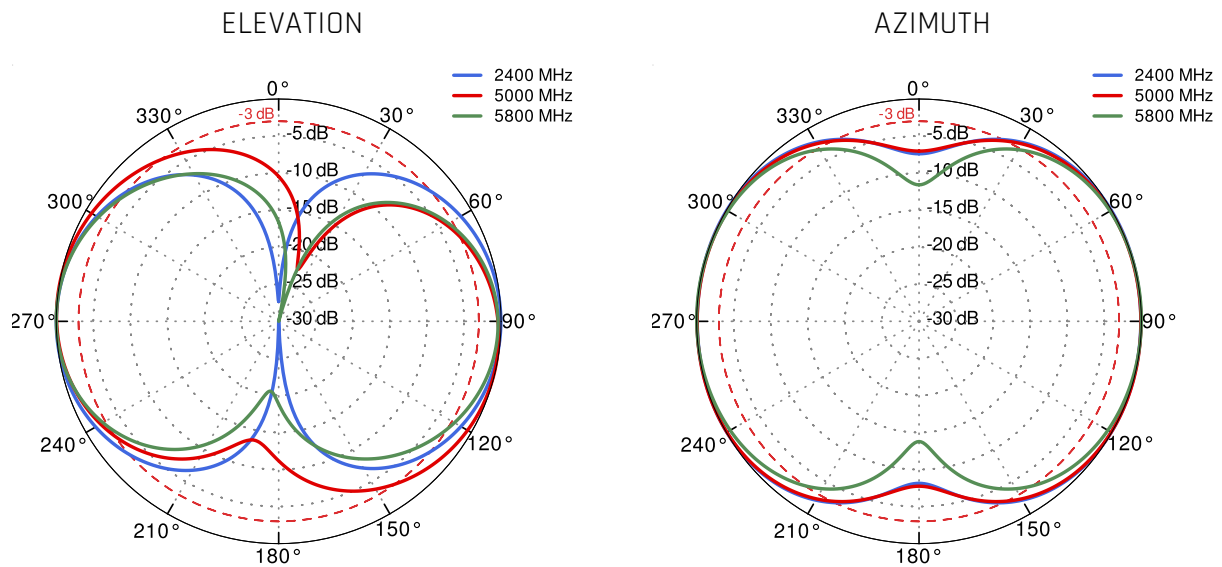
5G/LTE From 3.3GHz to 4.2GHz



5G/LTE From 4.8GHz to 5.8GHz



Wi-Fi From 2.4 GHz to 5.8 GHz



DIMENSIONS

