

QuWave 5G Lite 802.3at for Robustel EG5120, R5010, R5020, R5020-Lite, R5030

INTEGRATED MULTI-BAND 5G/LTE OMNI ANTENNA + WI-FI OMNI ANTENNA + GPS ACTIVE ANTENNA + PLACE TO INSTALL ROBUSTEL ROUTERS (ALL-IN-ONE)

QuWave Lite 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 5G/LTE, Wi-Fi and GPS antennas with Robustel routers into a single IP67 enclosure. Such integration allows implementation of new outdoor 5G/LTE solutions.

QuWave Lite for Robustel 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 Robustel routers: EG5120, R5010, R5020, R5020-Lite, R5030

The set contains a [802.3at PoE splitter](#), allowing you to split data and power from a single Ethernet cable and maintain gigabit transfer speeds while protecting the LAN port from damage caused by overvoltage, short circuit or improper connection. Using QuWireless splitter provides 3KA surge and lightning protection.



OUTDOOR ANTENNA WORKS IN ANY
WEATHER CONDITIONS, IP67



ANTENNA PERFECTLY MATCHED WITH
THE ROBUSTEL ROUTERS



ALL ANTENNAS AND ROBUSTEL
ROUTER INTEGRATED IN ONE
ENCLOSURE



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 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	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
POLARIZATION	RHCP (right hand circularly polarized)

CONNECTOR

1x SMA

CABLE TYPE

RG174

 MECHANICAL SPECIFICATION**MATERIALS**

ASA, aluminum, PTFE

CONNECTOR TYPE

1x QuRJ45

OUTER DIMENSIONS210 x 210 x 165 mm
8.27 x 8.27 x 6.49 inch**INGRESS PROTECTION**

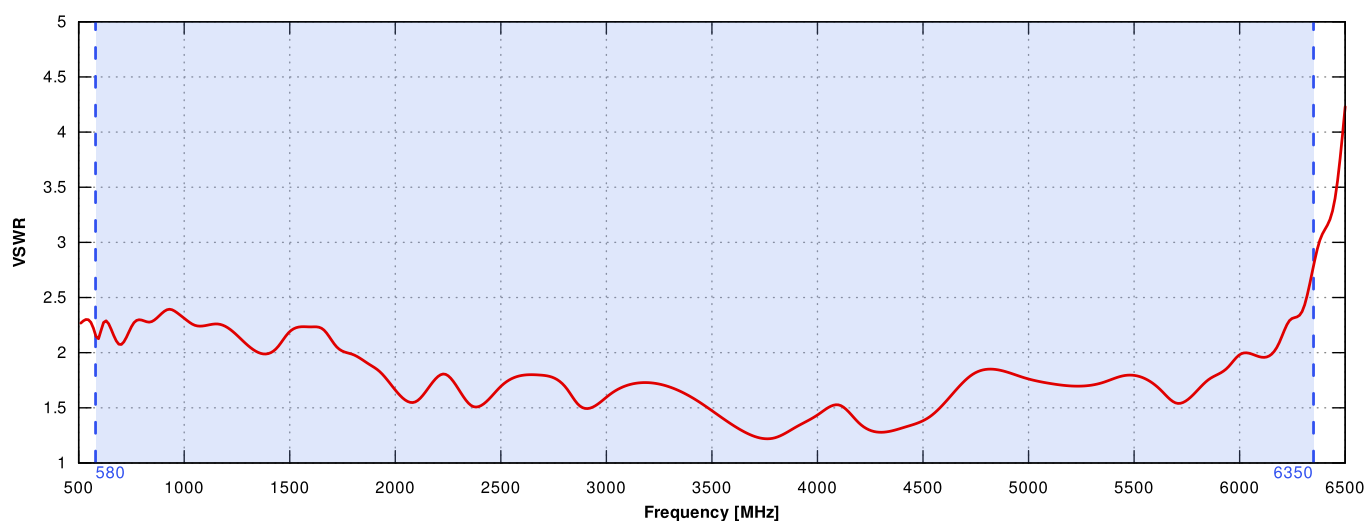
IP67

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**

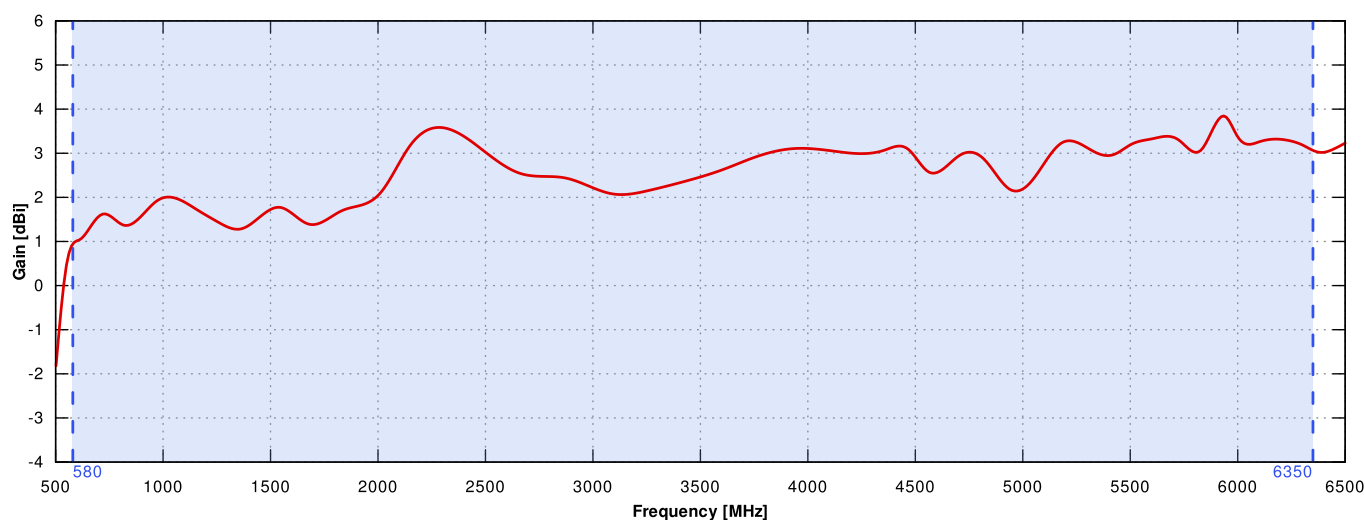
0.5 - 0.7 Nm

PLOTS

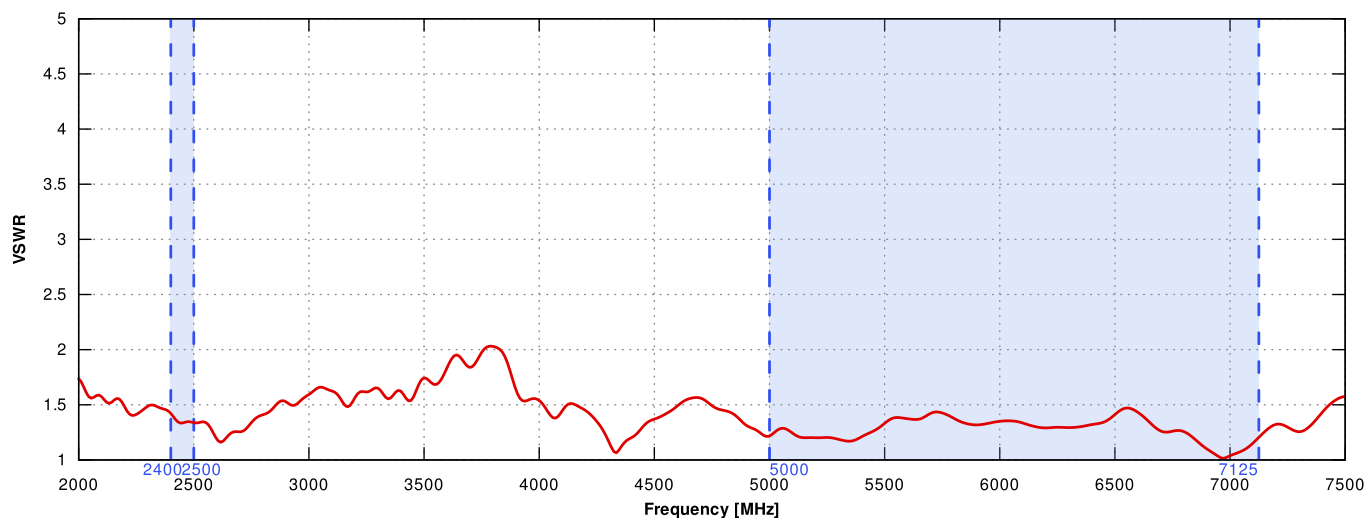
5G/LTE VSWR



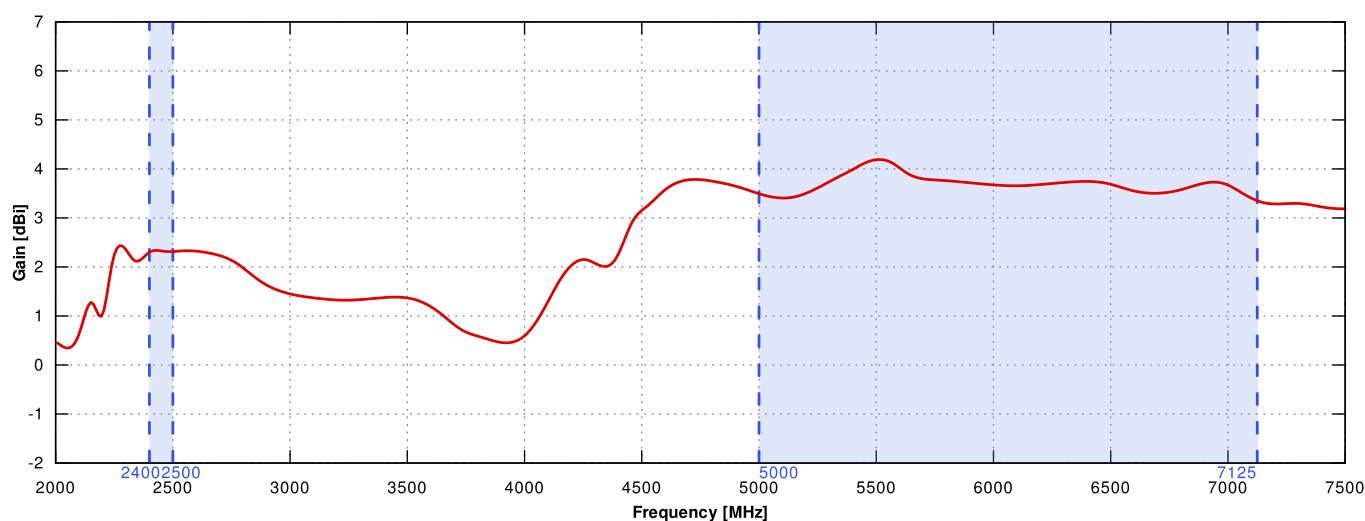
5G/LTE Gain



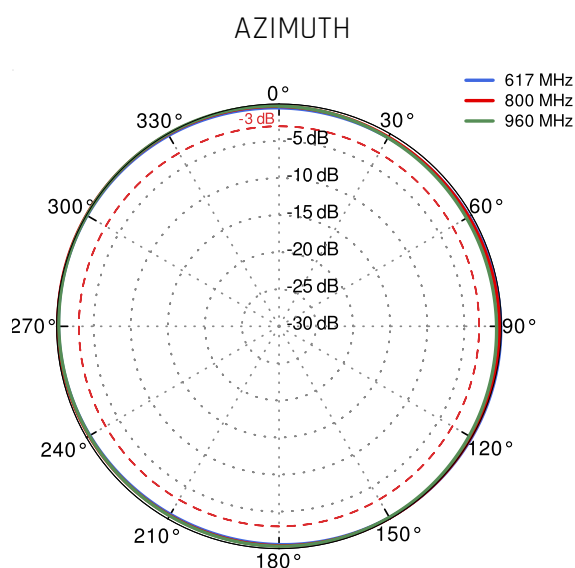
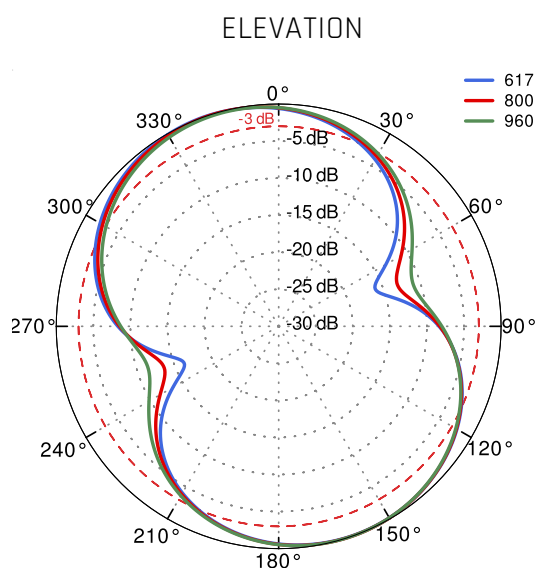
WI-FI VSWR



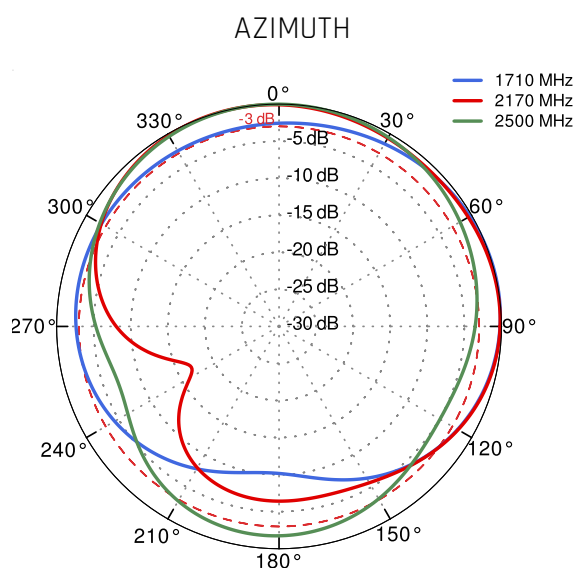
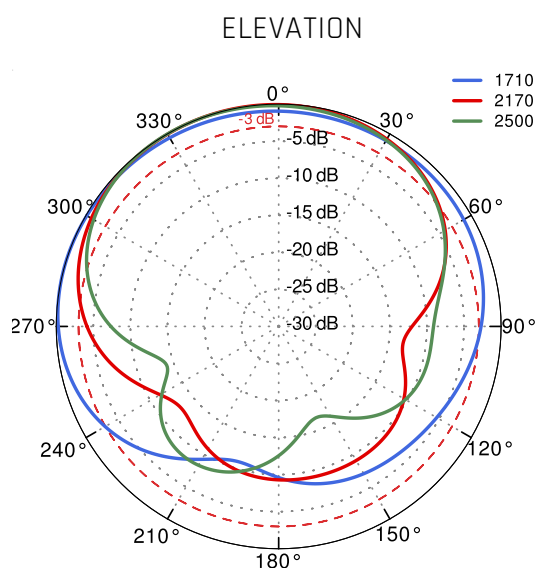
WI-FI Gain



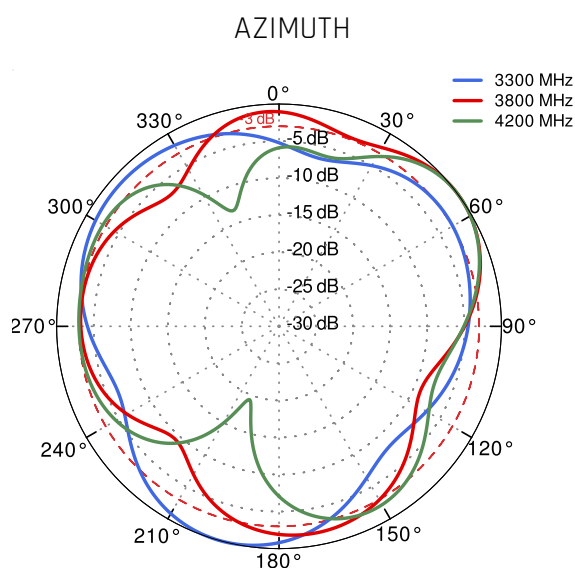
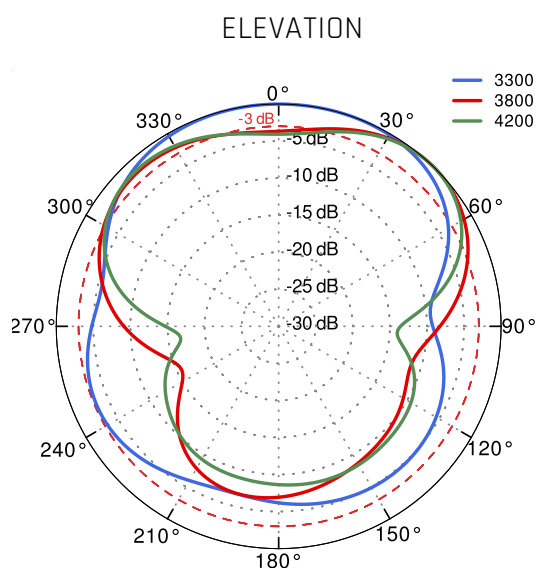
5G/LTE From 617MHz to 960MHz



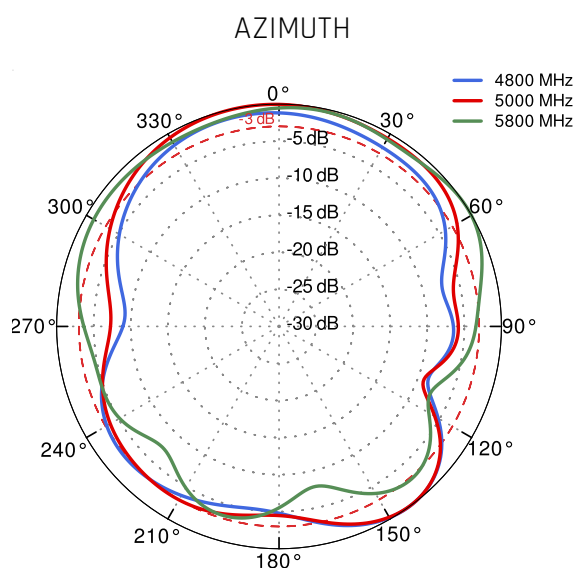
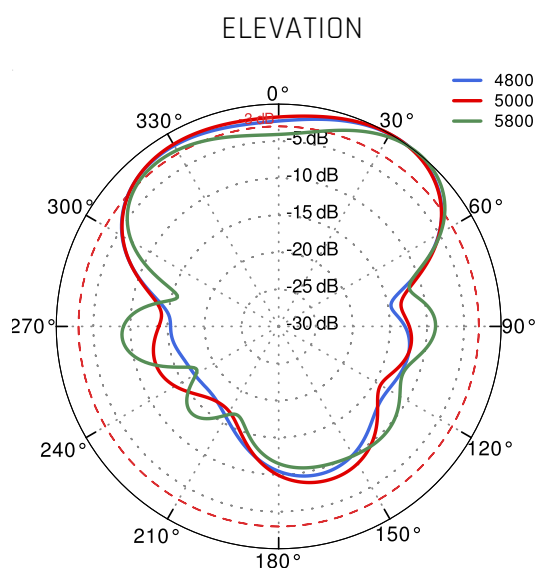
5G/LTE From 1.71GHz to 2.5GHz



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

