

# QuMax Omni for Advantech WISE 6610 AC

**INTEGRATED MULTI-BAND LTE OMNI ANTENNA + LORA ANTENNA + PLACE TO INSTALL ADVANTECH WISE 6610 (ALL-IN-ONE)**

QuMax Omni all-in-one antenna for Advantech WISE 6610 gateway is a perfect outdoor device for mobile and fixed installations like industrial, public, CCTV, hotspots, yachts, boats, campers, RV etc. It has embedded omni LTE and LoRa antenna. If you use WISE 6610 with QuMax Omni antenna, you get an integrated complete solution with embedded gateway and multi band antennas in one enclosure.



OUTDOOR ANTENNA WORKS IN ANY WEATHER CONDITIONS, IP67



MOUNTING SYSTEM WITH TWO PLANES, 60 DEGREES REGULATION



ANTENNA PERFECTLY MATCHED WITH THE ADVANTECH WISE 6610



ALL ANTENNAS AND ADVANTECH GATEWAY INTEGRATED IN ONE ENCLOSURE



MADE IN EUROPE



## LTE ANTENNA SPECIFICATION

FREQUENCY	694 - 960 MHz 1.7 - 2.2 GHz 2.5 - 2.7 GHz
GAIN	694 - 960 MHz : 2 dBi 1.7 - 2.2 GHz : 2 dBi 2.5 - 2.7 GHz : 3 dBi
SUPPORTED LTE/5G BANDS	1, 2, 3, 4, 5, 7, 8, 9, 10, 12, 13, 14, 17, 18, 19, 20, 25, 26, 27, 28, 29, 33, 34, 35, 36, 37, 38, 39, 44, 65, 66, 67, 68, 69, 85, 103, n80, n81, n82, n83, n84, n86, n89, n95, n98, n100, n101, n255
VSWR	<1.50, max <2.50
BEAMWIDTH	360°/25° ±5°
POLARIZATION	Vertical
IMPEDANCE	50 Ω

## LORA ANTENNA SPECIFICATION

FREQUENCY	840-940 MHz (EU868, IN865, RU864, US915, AU915, AS923, KR920)
GAIN	3 dBi
VSWR	<1.20, max <2.00
BEAMWIDTH	360°/70° ±10°
POLARIZATION	Vertical
IMPEDANCE	50 Ω
FRONT TO BACK	>17 dB

## MECHANICAL SPECIFICATION

<b>MATERIALS</b>	ABS, aluminum, PTFE, Fiberglass
<b>INGRESS PROTECTION</b>	IP67
<b>CONNECTOR TYPE</b>	RJ45
<b>DIMENSIONS</b>	272 x 276 x 96 mm 10.71 x 10.87 x 3.78 inch
<b>WEIGHT</b>	1.8 kg 3.97 lbs
<b>OPERATING TEMPERATURE</b>	From -40°C to 75°C From -40°F to 167°F
<b>ENCLOSURE RECOMMENDED TIGHTENING TORQUE</b>	0.6 - 0.8 Nm
<b>MAST DIAMETER</b>	25-66mm 0.98-2.60 inch

## POWER SUPPLY ELECTRICAL INPUT SPECIFICATION

<b>INPUT VOLTAGE</b>	85 ~ 264VAC
<b>INPUT FREQUENCY</b>	47 ~ 63Hz
<b>INPUT CURRENT</b>	0.25A/230VAC 0.35A/115VAC
<b>INRUSH CURRENT</b>	COLD START 65A / 230VAC
<b>AC LEAKAGE CURRENT</b>	<2mA / 240VAC
<b>EFFICIENCY</b>	81%

## POWER SUPPLY ELECTRICAL OUTPUT SPECIFICATION

OUTPUT VOLTAGE	12V
OUTPUT POWER	15.6W
OUTPUT CURRENT	1.3A

## FREQUENCY BANDS

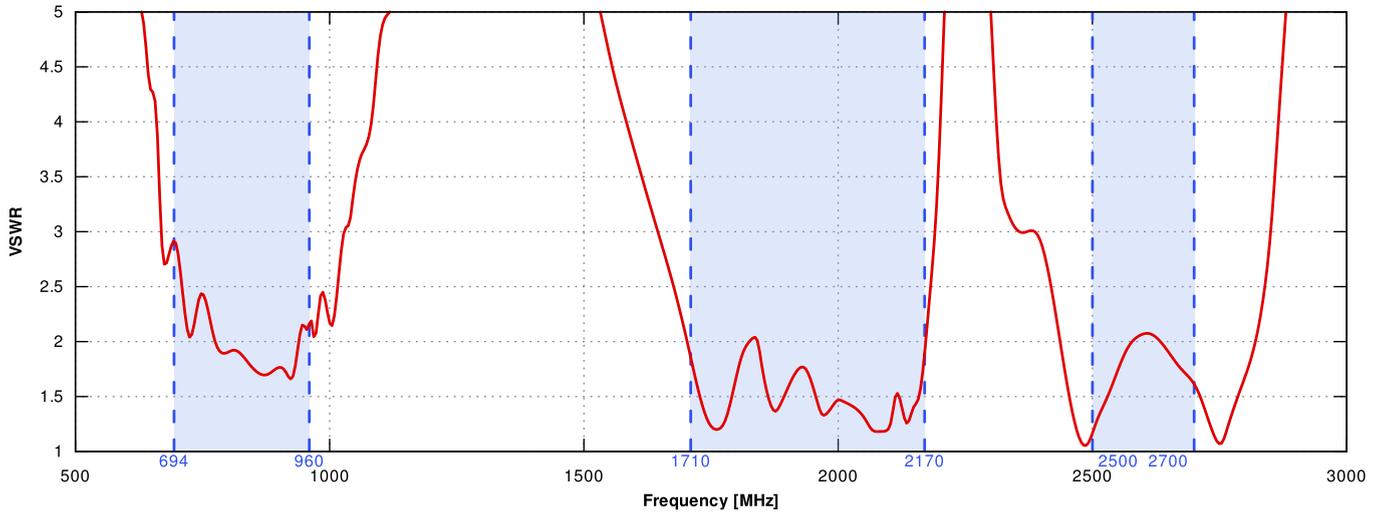
LTE / 4G GSM	<table border="1"> <tr> <td>5</td><td>8</td><td>12</td><td>13</td><td>14</td><td>17</td><td>18</td> </tr> <tr> <td>19</td><td>20</td><td>26</td><td>27</td><td>28</td><td>29</td><td>44</td> </tr> <tr> <td>67</td><td>68</td><td>85</td><td>103</td><td>n81</td><td>n82</td><td>n83</td> </tr> <tr> <td>n89</td><td>n100</td><td></td><td></td><td></td><td></td><td></td> </tr> </table> <p>617 MHz      960 MHz</p>	5	8	12	13	14	17	18	19	20	26	27	28	29	44	67	68	85	103	n81	n82	n83	n89	n100					
5	8	12	13	14	17	18																							
19	20	26	27	28	29	44																							
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n89	n100																												
LTE / 4G UMTS	<table border="1"> <tr> <td>1</td><td>2</td><td>3</td><td>4</td><td>9</td><td>10</td><td>25</td> </tr> <tr> <td>33</td><td>34</td><td>35</td><td>36</td><td>37</td><td>39</td><td>n80</td> </tr> <tr> <td>n84</td><td>n86</td><td>n95</td><td>n98</td><td>n101</td><td></td><td></td> </tr> </table> <p>1710 MHz      2170 MHz</p>	1	2	3	4	9	10	25	33	34	35	36	37	39	n80	n84	n86	n95	n98	n101									
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LTE / 4G	<table border="1"> <tr> <td>7</td><td>38</td><td>69</td> </tr> </table> <p>2400 MHz      2700 MHz</p>	7	38	69																									
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## COMPATIBLE ROUTERS

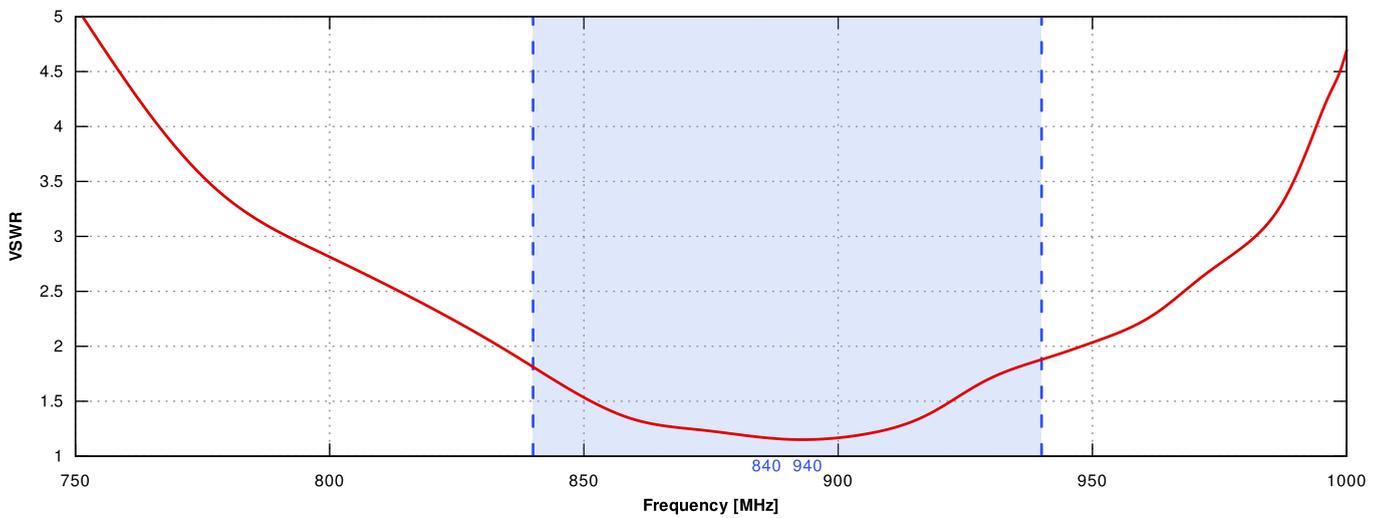
VARIANT: AA6610M0-01 \_\_\_\_\_

# PLOTS

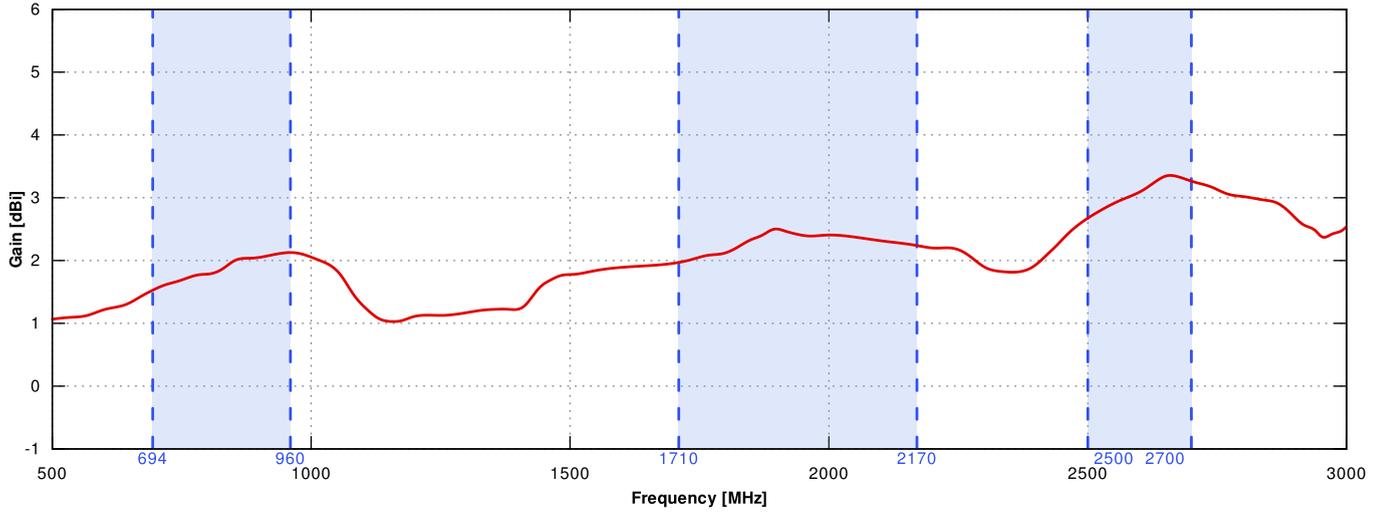
## LTE VSWR



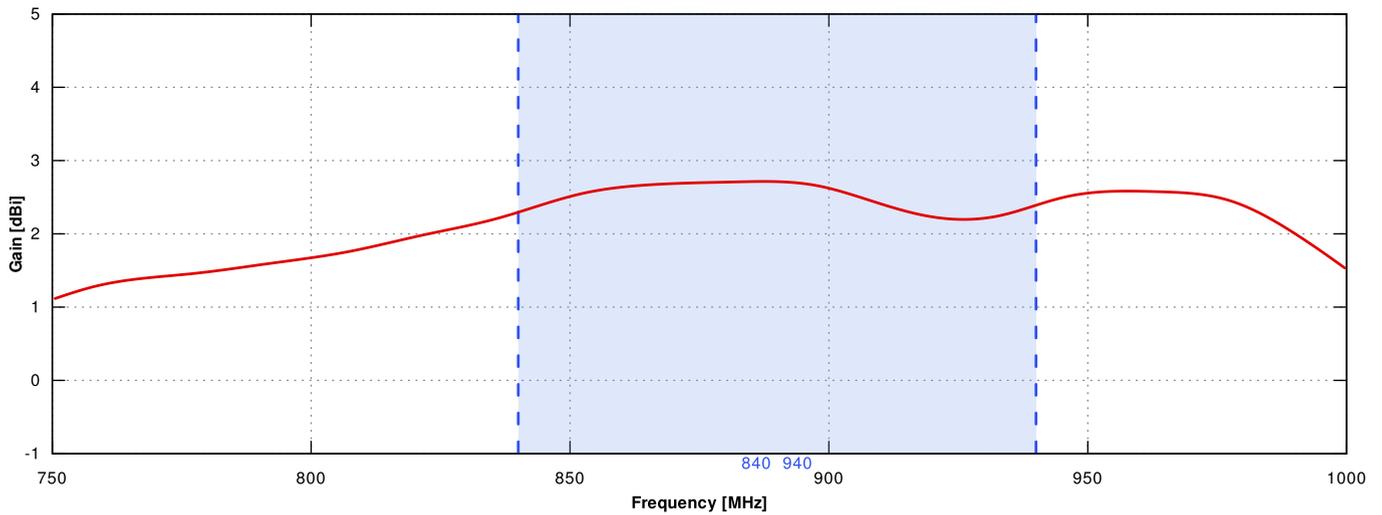
## LORA VSWR



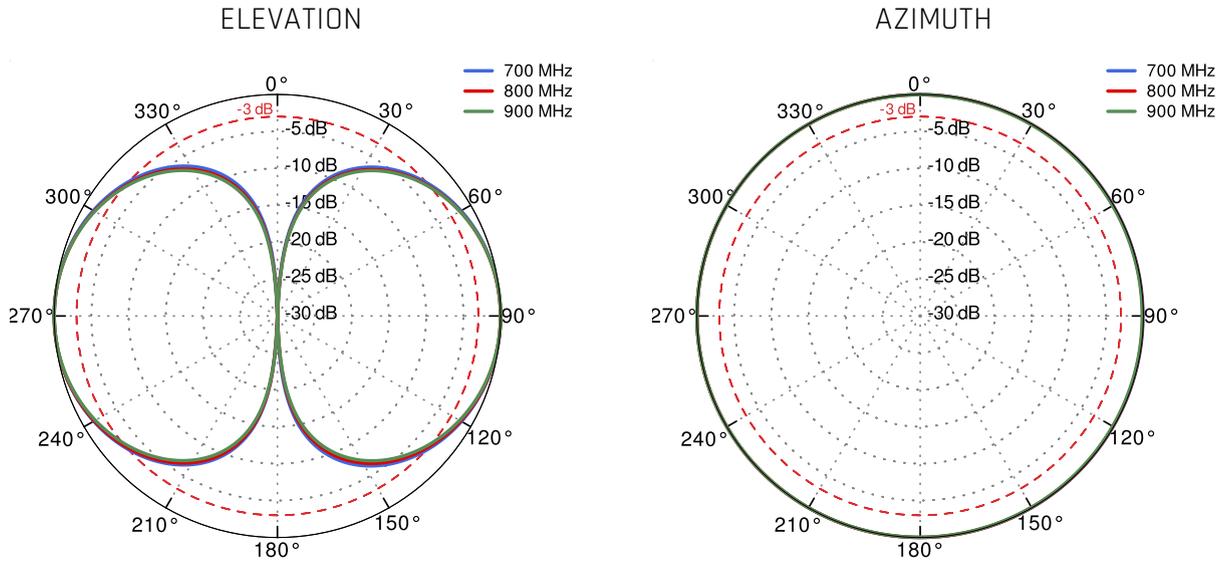
LTE Gain



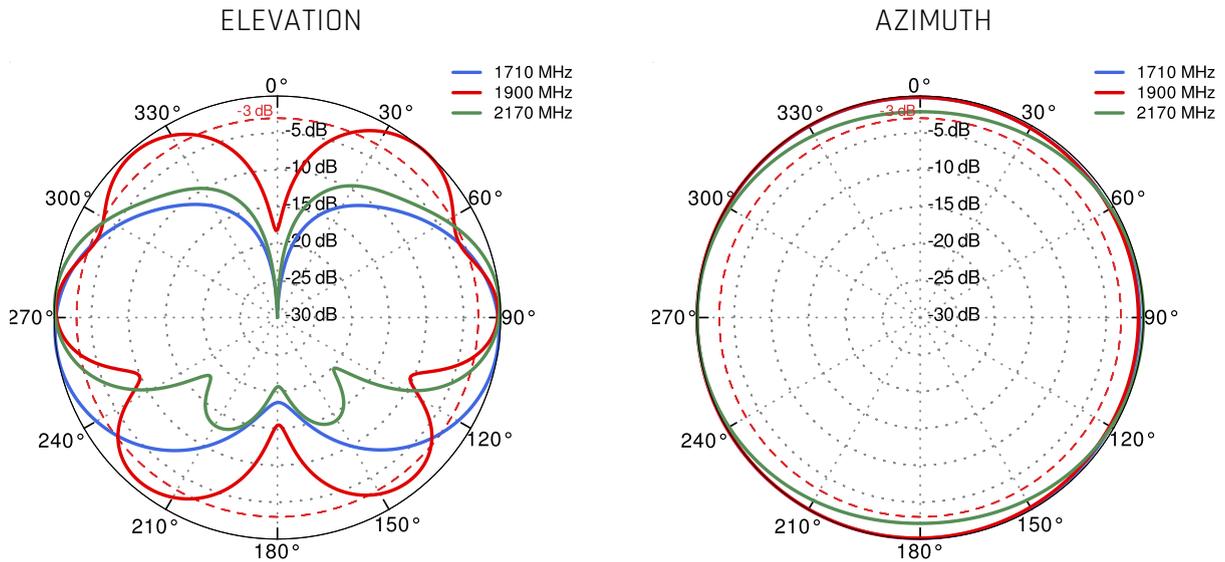
LORA Gain



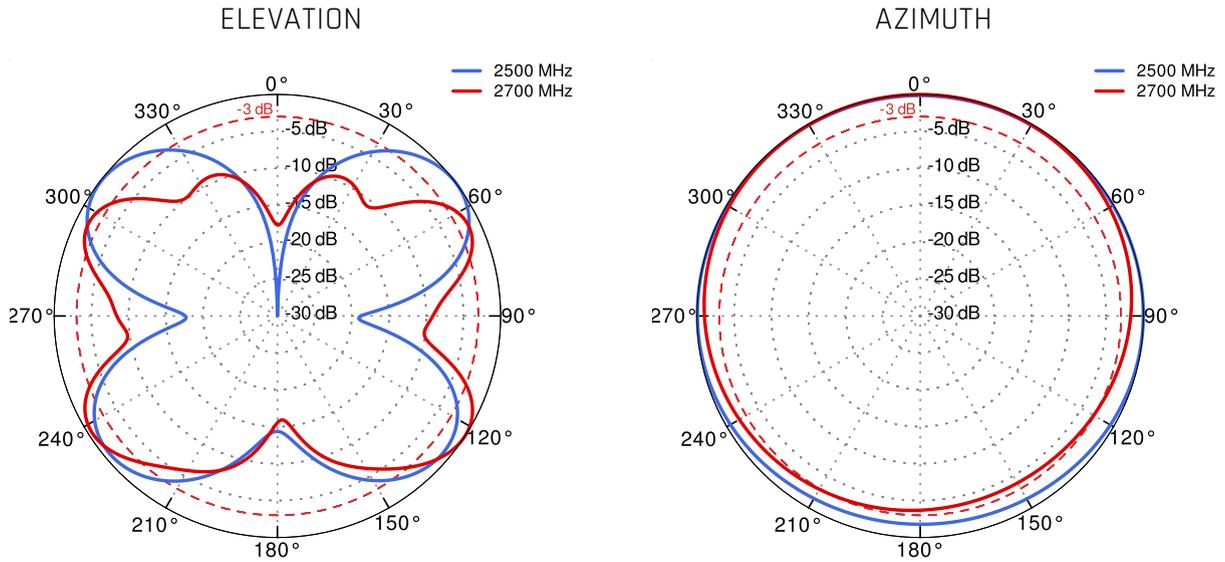
LTE From 700MHz to 900MHz



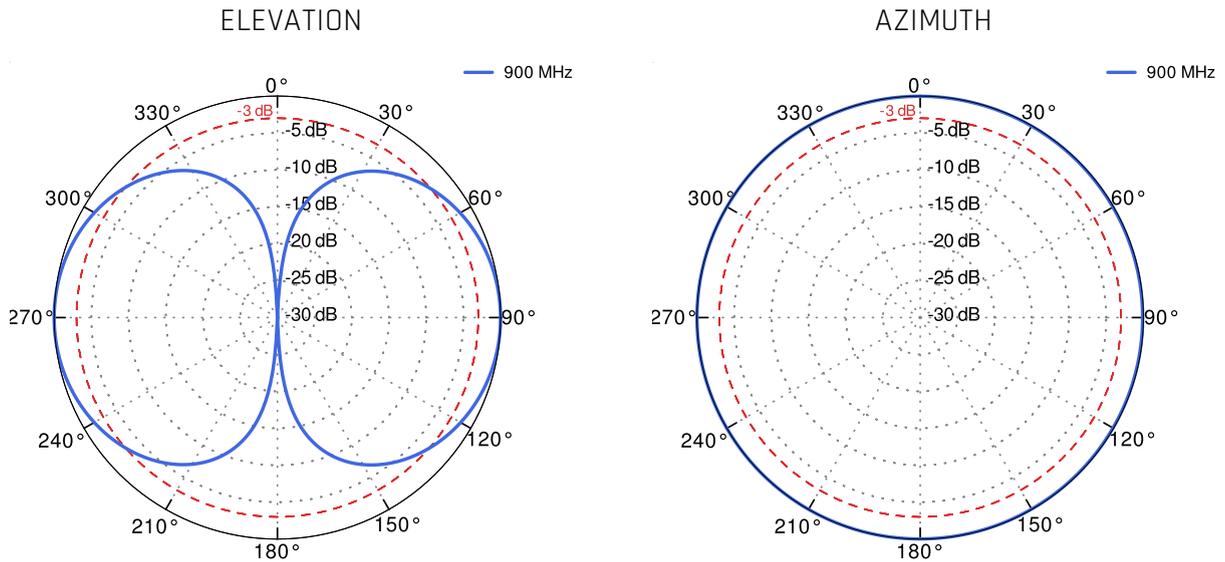
LTE From 1.71GHz to 2.17GHz



LTE From 2.5GHz to 2.7GHz



LORA 900MHZ



## **DIMENSIONS**

