

FCC RF EXPOSURE REPORT

FCC ID: X4Y20006

Project **1412C242**
Equipment : **Zenit1200 Dual-Band Wireless AC USB**
 Adapter
Model : **AULUB905U1**
Applicant : **NEXXT SOLUTIONS**
Address : **3505 N.W MIAMI, FL, 33178**

According: : **FCC Guidelines for Human Exposure IEEE**
 C95.1

B T L I N C .

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Table for Filed Antenna

Ant	Brand	Model Name	Antenna Type	Connector	Gain(dBi)	Note
1	N/A	N/A	Printed	N/A	3.00	TX/RX
2	N/A	N/A	Printed	N/A	3.00	TX/RX

Note:

The EUT incorporates a MIMO function. Physically, the EUT provides two completed transmitters and receivers (2T2R), all transmit signals are completely uncorrelated, then, Direction gain = GANT, that is Directional gain=3.0.

GENERAL CONCLUSION:

According to section 4.3.1 of FCC KDB447498 D01:

- 1) The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

$$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot$$

$$[\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR, where}$$

- $f_{(\text{GHz})}$ is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- The result is rounded to one decimal place for comparison
- 3.0 and 7.5 are referred to as the numeric thresholds in the step 2 below

2.4G

Max AVG Power (dBm)	Max AVG Power (mW)	Channel (GHz)	Min. test separation distance(mm)	Result	SAR test exclusion threshlod for 1-g SAR
8.92	7.798301105	2.412	5	2.422248	3

5G UNII-1

Max AVG Power (dBm)	Max AVG Power (mW)	Channel (GHz)	Min. test separation distance(mm)	Result	SAR test exclusion threshlod for 1-g SAR
7.98	6.280583588	5.180	5	2.858873	3

5G UNII-3

Max AVG Power (dBm)	Max AVG Power (mW)	Channel (GHz)	Min. test separation distance(mm)	Result	SAR test exclusion threshlod for 1-g SAR
7.47	5.584701947	5.825	5	2.695740	3

Conclusion: No SAR evaluation required since transmitter power is below FCC threshold