

FCC RF EXPOSURE REPORT

FCC ID: X4YKRNS3V2

Project No. : 1605C184
Equipment : Universal Range Extender
Model : AEIEL304U1
Applicant : NEXXT SOLUTIONS
Address : 3505 N.W 107TH AVE, MIAMI, FL,33178

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

B T L I N C .

No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, China.
TEL: +86-769-8318-3000 FAX: +86-769-8319-6000

MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi^2} = \frac{EIRP}{4\pi^2}$$

where:

S = power density

P = power input to the antenna

G = power gain of the antenna in the direction of interest relative to an isotropic radiator

R = distance to the center of radiation of the antenna

Table for Filed Antenna

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

Note:

(1) The EUT incorporates a MIMO function. Physically, the EUT provides two completed two transmitters and two receivers (2T2R).

(2) ANT 1 was the worst case for 1TX.

Operating Mode TX Mode	1TX	2TX
802.11b	V (ANT 1)	-
802.11g	V (ANT 1)	-
802.11n(20MHz)	-	V (ANT 1 + ANT 2)
802.11n(40MHz)	-	V (ANT 1 + ANT 2)

TEST RESULTS

EUT :	Universal Range Extender	Model Name :	AEIEL304U1
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	23.76	237.6840	0.07498	1	Complies
2	1.5849	23.41	219.2805	0.06918	1	Complies
2	1.5849	22.20	165.9587	0.05235	1	Complies

EUT :	Universal Range Extender	Model Name :	AEIEL304U1
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G MODE /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	24.50	281.8383	0.08891	1	Complies
2	1.5849	26.32	428.5485	0.13519	1	Complies
2	1.5849	25.10	323.5937	0.10208	1	Complies

EUT :	Universal Range Extender	Model Name :	AEIEL304U1
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M MODE_ Total /CH01, CH06, CH11		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	26.50	446.6836	0.14091	1	Complies
2	1.5849	28.87	770.9035	0.24319	1	Complies
2	1.5849	27.01	502.3426	0.15847	1	Complies

EUT :	Universal Range Extender	Model Name :	AEIEL304U1
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M MODE_ Total /CH03, CH06, CH09		

Antenna Gain (dBi)	Antenna Gain (numeric)	Peak Output Power (dBm)	Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2	1.5849	23.70	234.4229	0.07395	1	Complies
2	1.5849	25.10	323.5937	0.10208	1	Complies
2	1.5849	24.26	266.6859	0.08413	1	Complies

Note: the calculated distance is 20 cm.