

FCC RF EXPOSURE REPORT

FCC ID: X4YKRNS300

Project No. : 1508C180
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 .

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MPE CALCULATION METHOD:

Calculation Method of RF Safety Distance:

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

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)
1	N/A	N/A	Printed	N/A	2
2	N/A	N/A	Printed	N/A	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	19.77	94.8418	0.02991923	1	Complies
2	1.5849	20.45	110.9175	0.03499052	1	Complies
2	1.5849	20.06	101.3911	0.03198530	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	18.25	66.8344	0.02108387	1	Complies
2	1.5849	24.37	273.5269	0.08628799	1	Complies
2	1.5849	18.86	76.9130	0.02426333	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	21.46	139.9587	0.04415200	1	Complies
2	1.5849	26.99	500.0345	0.15774310	1	Complies
2	1.5849	21.76	149.9685	0.04730972	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	20.41	109.9006	0.03466972	1	Complies
2	1.5849	19.54	89.9498	0.02837595	1	Complies
2	1.5849	19.03	79.9834	0.02523192	1	Complies

Note: the calculated distance is 20 cm.