

FCC RF EXPOSURE REPORT

FCC ID: X7D-WX002

Project No. : 1410C190
Equipment : 300Mbps Wireless N Range Extender
Model : EX300; WX002
Applicant : ZIONCOM ELECTRONICS (SHENZHEN) LTD.
Address : Building A1~A2, Lantian Science and Technology
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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:

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

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)	Length
1		H001-1008-B	Dipole	N/A	4.00	90MM
2		H001-1008-B	Dipole	N/A	4.00	90MM

TEST RESULTS

EUT :	300Mbps Wireless N Range Extender	Model Name :	EX300; WX002
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
4	2.5119	11.74	14.9279	0.00746363	1	Complies
4	2.5119	10.48	11.1686	0.00558406	1	Complies
4	2.5119	9	7.9433	0.00397146	1	Complies

EUT :	300Mbps Wireless N Range Extender	Model Name :	EX300; WX002
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
4	2.5119	20.5	112.2018	0.05609839	1	Complies
4	2.5119	20.65	116.1449	0.05806981	1	Complies
4	2.5119	20.6	114.8154	0.05740509	1	Complies

EUT :	300Mbps Wireless N Range Extender	Model Name :	EX300; WX002
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
4	2.5119	20.19	104.4720	0.05223365	1	Complies
4	2.5119	20.38	109.1440	0.05456955	1	Complies
4	2.5119	20.11	102.5652	0.05128028	1	Complies

EUT :	300Mbps Wireless N Range Extender	Model Name :	EX300; WX002
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
4	2.5119	20.45	110.9175	0.05545623	1	Complies
4	2.5119	20.34	108.1434	0.05406925	1	Complies
4	2.5119	20.3	107.1519	0.05357354	1	Complies

Note: the calculated distance is 20 cm.