

FCC RF EXPOSURE REPORT

FCC ID: I88WAP3205V3

Project No. : 1404C267C
Equipment : Wireless N300 Access Point
Model : WAP3205 v3
Applicant : ZyXEL Communications Corporation
**Address : No. 2, Gongye E. 9th Road Hsinchu Science
Park, Hsinchu, Taiwan,R.O.C**

**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:

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

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	Dipole	N/A	7
2	N/A	N/A	Dipole	N/A	7

TEST RESULTS

EUT :	Wireless N300 Access Point	Model Name :	WAP3205 v3
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
7	5.0119	21.20	131.8257	0.13150745	1	Complies
7	5.0119	20.46	111.1732	0.11090481	1	Complies
7	5.0119	18.99	79.2501	0.07905883	1	Complies

EUT :	Wireless N300 Access Point	Model Name :	WAP3205 v3
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
7	5.0119	24.51	282.4880	0.28180609	1	Complies
7	5.0119	26.25	421.6965	0.42067855	1	Complies
7	5.0119	23.94	247.7422	0.24714417	1	Complies

EUT :	Wireless N300 Access Point	Model Name :	WAP3205 v3
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
7	5.0119	26.56	452.8976	0.45180431	1	Complies
7	5.0119	28.65	732.8245	0.73105553	1	Complies
7	5.0119	24.72	296.4831	0.29576744	1	Complies

EUT :	Wireless N300 Access Point	Model Name :	WAP3205 v3
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
7	5.0119	21.44	139.3157	0.13897938	1	Complies
7	5.0119	23.37	217.2701	0.21674564	1	Complies
7	5.0119	19.62	91.6220	0.09140088	1	Complies

Note: the calculated distance is 20 cm.