

FCC RF EXPOSURE REPORT

FCC ID: X7D-IP04227

Project No. : 1410C191
Equipment : AC1200 WirelessDual Band Gigabit Router
Model : A2004NS; IP04227
Applicant : ZIONCOM ELECTRONICS (SHENZHEN) LTD.
**Address : Building A1~A2, Lantian Science and
Technology Park, Xinyu Road Xinqiao
Henggang Block Shajing Street, Baoan
District, Shenzhen City, China**
**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)	Note
1		H001-10165-B	Dipole	N/A	5	90mm
2		H001-10175-B	Dipole	N/A	5	140mm

TEST RESULTS

EUT :	A2004NS; IP04227	Model Name :	AC1200 WirelessDual Band Gigabit Router
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX B Mode_CH01/06/11_Total		

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
5	3.1623	16.95	49.5450	0.03118533	1	Complies
5	3.1623	16.69	46.6659	0.02937314	1	Complies
5	3.1623	17	50.1187	0.03154644	1	Complies

EUT :	A2004NS; IP04227	Model Name :	AC1200 WirelessDual Band Gigabit Router
Temperature :	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX G Mode_CH01/06/11_Total		

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
5	3.1623	21.29	134.5860	0.08471306	1	Complies
5	3.1623	20.99	125.6030	0.07905883	1	Complies
5	3.1623	20.92	123.5947	0.07779476	1	Complies

EUT :	A2004NS; IP04227	Model Name :	AC1200 WirelessDual Band Gigabit Router
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
5	3.1623	21.53	142.2329	0.08952625	1	Complies
5	3.1623	21.37	137.0882	0.08628799	1	Complies
5	3.1623	21.41	138.3566	0.08708641	1	Complies

EUT :	A2004NS; IP04227	Model Name :	AC1200 WirelessDual Band Gigabit Router
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
5	3.1623	21.64	145.8814	0.09182277	1	Complies
5	3.1623	21.27	133.9677	0.08432384	1	Complies
5	3.1623	21.61	144.8772	0.09119066	1	Complies

Note: the calculated distance is 20 cm.