

FCC RF EXPOSURE REPORT

FCC ID: T58WF2166R

Project No. : 1408C128
Equipment : AC1200 Wireless Dual Band PCI-E Adapter
Model : WF2166
Applicant : NETIS SYSTEMS CO., LTD
Address : 4F&5F R&D Building, Oriental Cyberport,
High-Tech Industrial Park, Nanshan,
Shenzhen, China.

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



B T L I N C .

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Table for Filed Antenna:

2.4G

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		RF21S00014A	Dipole	N/A	4.87
2		RF21S00014A	Dipole	N/A	4.87

5G

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1		RF21S00014A	Dipole	N/A	5.32
2		RF21S00014A	Dipole	N/A	5.32

TEST RESULTS

2.4G

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
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
4.87	3.0690	21.33	135.8313	0.08297559	1	Complies
4.87	3.0690	21.17	130.9182	0.07997429	1	Complies
4.87	3.0690	20.13	103.0386	0.06294342	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
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
4.87	3.0690	21.18	131.2200	0.08015865	1	Complies
4.87	3.0690	22.56	180.3018	0.11014134	1	Complies
4.87	3.0690	20.78	119.6741	0.07310555	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-20M Mode/CH01, CH06, CH11 – Ant 1 +Ant 2		

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
4.87	3.0690	23.05	201.8366	0.12329639	1	Complies
4.87	3.0690	23.33	215.2782	0.13150745	1	Complies
4.87	3.0690	22.27	168.6553	0.10302684	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	TX N-40M Mode/CH03, CH06, CH09 – Ant 1 +Ant 2		

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
4.87	3.0690	22.54	179.4734	0.10963529	1	Complies
4.87	3.0690	23.15	206.5380	0.12616833	1	Complies
4.87	3.0690	20.89	122.7439	0.07498085	1	Complies

Band 1

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX A Mode/CH36, CH40, CH48		

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
5.32	3.4041	14.68	29.3765	0.01990446	1	Complies
5.32	3.4041	17.89	61.5177	0.04168217	1	Complies
5.32	3.4041	18.23	66.5273	0.04507652	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N-20M Mode/CH36, CH40, CH48– Ant 1 +Ant 2		

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
5.32	3.4041	17.35	54.3250	0.03680869	1	Complies
5.32	3.4041	19.91	97.9490	0.06636672	1	Complies
5.32	3.4041	20.34	108.1434	0.07327408	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX N-40M Mode/CH38, CH46– Ant 1 +Ant 2		

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
5.32	3.4041	13.73	23.6048	0.01599375	1	Complies
5.32	3.4041	20.01	100.2305	0.06791260	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX AC-20M Mode/CH36, CH40, CH48– Ant 1 +Ant 2		

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
5.32	3.4041	16.89	48.8652	0.03310933	1	Complies
5.32	3.4041	20.01	100.2305	0.06791260	1	Complies
5.32	3.4041	20.89	122.7439	0.08316687	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX AC-40M Mode/CH38, CH46– Ant 1 +Ant 2		

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
5.32	3.4041	14.33	27.1019	0.01836328	1	Complies
5.32	3.4041	20.43	110.4079	0.07480840	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 1/TX AC-80M Mode/CH42– Ant 1 +Ant 2		

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
5.32	3.4041	17.25	53.0884	0.03597082	1	Complies

Band 4

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 4/TX A Mode/CH149, CH157, CH165		

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
5.32	3.4041	12.29	16.9434	0.01148022	1	Complies
5.32	3.4041	18.12	64.8634	0.04394914	1	Complies
5.32	3.4041	13.91	24.6037	0.01667057	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 4/TX N-20M Mode/ CH149, CH157, CH165– Ant 1 +Ant 2		

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
5.32	3.4041	13.89	24.4906	0.01659397	1	Complies
5.32	3.4041	17.31	53.8270	0.03647123	1	Complies
5.32	3.4041	15.34	34.1979	0.02317130	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 4/TX N-40M Mode/CH151, CH159– Ant 1 +Ant 2		

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
5.32	3.4041	14.15	26.0016	0.01761775	1	Complies
5.32	3.4041	16.53	44.9780	0.03047547	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 4/TX AC-20M Mode/ CH149, CH157, CH165– Ant 1 +Ant 2		

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
5.32	3.4041	14.98	31.4775	0.02132801	1	Complies
5.32	3.4041	16.97	49.7737	0.03372488	1	Complies
5.32	3.4041	15.63	36.5595	0.02477139	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 4/TX AC-40M Mode/CH151, CH159– Ant 1 +Ant 2		

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
5.32	3.4041	13.83	24.1546	0.01636629	1	Complies
5.32	3.4041	16.24	42.0727	0.02850692	1	Complies

EUT :	AC1200 Wireless Dual Band PCI-E Adapter	Model Name :	WF2166
Temperature:	25 °C	Relative Humidity:	55 %
Test Voltage :	AC 120V/60Hz		
Test Mode :	Band 4/TX AC-80M Mode/CH155– Ant 1 +Ant 2		

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
5.32	3.4041	11.51	14.1579	0.00959291	1	Complies

Note: the calculated distance is 20 cm.