



Neutron Engineering Inc.

FCC RF EXPOSURE REPORT

FCC ID: T58WF2780R

Project No. : 1402C047
Equipment : AC1200 Wireless Dual Band Gigabit Router
Model : WF2780
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

Neutron Engineering Inc.

No.3, Jinshagang 1st Road, ShiXia, Dalang Town, Dong Guan, China.

TEL : (0769) 8318-3000 FAX : (0769) 8319-6000



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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 |
|------|----------------|-------------|--------------|-----------|------------|-------|
| 6 | <i>RF link</i> | RF21C00077A | Dipole | N/A | 5.88 | TX/RX |
| 7 | <i>RF link</i> | RF21C00073A | Dipole | N/A | 5.88 | TX/RX |



TEST RESULTS

| | | | |
|----------------|------------------------------------------|--------------------|--------|
| EUT: | AC1200 Wireless Dual Band Gigabit Router | Model Name : | WF2780 |
| Temperature: | 25 °C | Relative Humidity: | 58 % |
| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 5.88 | 3.8726 | 13.7 | 23.4423 | 0.01806968 | 1 | Complies |
| 5.88 | 3.8726 | 13.71 | 23.4963 | 0.01811133 | 1 | Complies |
| 5.88 | 3.8726 | 13.72 | 23.5505 | 0.01815308 | 1 | Complies |

| | | | |
|----------------|-------------------------------------------------|--------------------|--------|
| EUT: | AC1200 Wireless Dual Band Gigabit Router | Model Name : | WF2780 |
| Temperature: | 25 °C | Relative Humidity: | 58 % |
| Test Voltage : | AC 120V/60Hz | | |
| Test Mode : | Band 1/TX N20 Mode/CH36, CH40, CH48 ANT 6+ANT 7 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 5.88 | 3.8726 | 15.63 | 36.5595 | 0.02818061 | 1 | Complies |
| 5.88 | 3.8726 | 15.58 | 36.1410 | 0.02785803 | 1 | Complies |
| 5.88 | 3.8726 | 15.78 | 37.8443 | 0.02917094 | 1 | Complies |



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|----------------|-------------------------------------------|--------------------|--------|
| EUT: | AC1200 Wireless Dual Band Gigabit Router | Model Name : | WF2780 |
| Temperature: | 25 °C | Relative Humidity: | 58 % |
| Test Voltage : | AC 120V/60Hz | | |
| Test Mode : | Band 1/TX N40 Mode/CH38, CH46 ANT 6+ANT 7 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 5.88 | 3.8726 | 15.57 | 36.0579 | 0.02779396 | 1 | Complies |
| 5.88 | 3.8726 | 15.63 | 36.5595 | 0.02818061 | 1 | Complies |

| | | | |
|----------------|----------------------------------------------------|--------------------|--------|
| EUT: | AC1200 Wireless Dual Band Gigabit Router | Model Name : | WF2780 |
| Temperature: | 25 °C | Relative Humidity: | 58 % |
| Test Voltage : | AC 120V/60Hz | | |
| Test Mode : | Band 1/TX AC 20 Mode/CH36, CH40, CH48 ANT 6+ ANT 7 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 5.88 | 3.8726 | 15.84 | 38.3707 | 0.02957674 | 1 | Complies |
| 5.88 | 3.8726 | 15.74 | 37.4973 | 0.02890350 | 1 | Complies |
| 5.88 | 3.8726 | 15.49 | 35.3997 | 0.02728666 | 1 | Complies |



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|----------------|----------------------------------------------|--------------------|--------|
| EUT: | AC1200 Wireless Dual Band Gigabit Router | Model Name : | WF2780 |
| Temperature: | 25 °C | Relative Humidity: | 58 % |
| Test Voltage : | AC 120V/60Hz | | |
| Test Mode : | Band 1/TX AC 40 Mode/CH38, CH46 ANT 6+ ANT 7 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 5.88 | 3.8726 | 15.45 | 35.0752 | 0.02703649 | 1 | Complies |
| 5.88 | 3.8726 | 15.63 | 36.5595 | 0.02818061 | 1 | Complies |

| | | | |
|----------------|------------------------------------------|--------------------|--------|
| EUT: | AC1200 Wireless Dual Band Gigabit Router | Model Name : | WF2780 |
| Temperature: | 25 °C | Relative Humidity: | 58 % |
| Test Voltage : | AC 120V/60Hz | | |
| Test Mode : | Band 1/TX AC 80 Mode/CH42 ANT 6+ ANT 7 | | |

| 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 |
|--------------------|------------------------|-------------------------|------------------------|-----------------------------------------|--------------------------------------------------|-------------|
| 5.88 | 3.8726 | 15.64 | 36.6438 | 0.02824557 | 1 | Complies |

The calculated distance is 20 cm.