

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FWA1201V4

Project No. : 2510C185
Equipment : AC1200 Wireless Gigabit Access Point
Brand Name : tp-link
Test Model : TL-WA1201
Model Name : TL-WA1201
Hardware Version : 4.0
Software Version : 4.0
Applicant : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Manufacturer : TP-Link Systems Inc.
Address : 10 Mauchly, Irvine, CA 92618
Date of Receipt : Oct. 21, 2025
Date of Test : Oct. 23, 2025 ~ Dec. 09, 2025
Issued Date : Dec. 19, 2025
Test Sample : Engineering Sample No.: DG92025102181
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091 & KDB 447498 D01 v06

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc. (Dongguan)

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REVISION HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2510C185	R00	Original Report.	Dec. 19, 2025	Valid

1. 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

2. ANTENNA SPECIFICATION

For 2.4GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	tp-link	TL-WA1201(US)4.0	Dipole	Weld	6.79
2	tp-link	TL-WA1201(US)4.0	Dipole	Weld	5.22

Note:

- 1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = $G_{ANT} + \text{Array Gain}$.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=6.79.
- 2) The antenna gain is provided by the manufacturer.

For 5GHz:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)	Note
1	tp-link	TL-WA1201(US)4.0	Dipole	Weld	6.82	UNII-1
					7.15	UNII-3
2	tp-link	TL-WA1201(US)4.0	Dipole	Weld	6.86	UNII-1
					7.19	UNII-3

Note:

- 1) This EUT supports CDD, and all antenna gains are not equal, Directional gain = $G_{ANT} + \text{Array Gain}$.
For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the UNII-1 Directional gain=6.86, the output power limit is $30 - (6.86 - 6) = 29.14$, the UNII-3 Directional gain=7.19, the output power limit is $30 - (7.19 - 6) = 28.81$.
- 2) The antenna gain and beamforming gain are provided by the manufacturer.
- 3) Beamforming Gain is 3dB.

3. CALCULATED RESULT

For 2.4GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
6.79	4.7753	23.66	232.2737	0.2207	1	Complies

For 5GHz:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Output Power (dBm)	Max. Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
6.86	4.8529	24.69	294.4422	0.2843	1	Complies

For the max simultaneous transmission MPE:

Ratio		Total	Limit of Ratio	Test Result
2.4GHz	5GHz			
0.2207	0.2843	0.5049	1	Complies

Note:

(1) The calculated distance is 20 cm.

End of Test Report