

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FEAP100BRG

Project No. : 2511C571
Equipment : 2.4GHz 300Mbps Indoor/Outdoor Wireless Bridge
Brand Name : Omada
Test Model : EAP100-Bridge
Series Model : N/A
Software Version : V1
Hardware Version : V1
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 : Mar. 26, 2025
Date of Test : Mar. 31, 2025 ~ Aug. 13, 2025
Issued Date : Feb. 05, 2026
Test Sample : Engineering Sample No.: DG202503262
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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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2511C571	R00	This is a copy report which referencing test data are provided from test report (BTL-FCCP-2-2503G015). Changed the adapters and added functional module circuits such as 24V non-standard power supply delay and adapter detection based on original circuit board. It do not affect the test results, the rest are kept the same.	Feb. 05, 2026	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

Ant.	Manufacturer	Model Name	Antenna Type	Connector	Gain (dBi)
1	TP-Link Systems Inc.	N/A	Microstrip	N/A	7.50
2	TP-Link Systems Inc.	N/A	Microstrip	N/A	7.06

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=7.50.

2) The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

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
7.50	5.6234	27.67	584.7901	0.6546	1	Complies

Note:

(1) The calculated distance is 25 cm.

(2) Output power including tune up tolerance.

End of Test Report