

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FEAP100BRG

Project No. : 2503G015
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 : Jan. 04, 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).

Prepared by

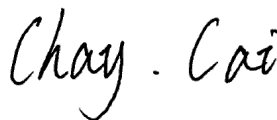
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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2503G015	R00	Original Report.	Oct. 16, 2025	Invalid
BTL-FCCP-2-2503G015	R01	This report added the turn up for max. output power in page 3. It is a revision of the report BTL-FCCP-2-2503G015 R00. This is a newly released report, replacing the BTL-FCCP-2-2503G015 R00 report.	Jan. 04, 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