

FCC RF EXPOSURE REPORT

FCC ID: 2BH7FEAP215BRGV3

Project No. : 2502G032
Equipment : 5GHz 867Mbps Long-range Indoor/Outdoor Wireless Bridge
Brand Name : tp-link
Test Model : EAP215-Bridge
Series Model : N/A
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 : Feb. 28, 2025
Date of Test : Mar. 03, 2025 ~ Apr. 15, 2025
Issued Date : May 21, 2025
Report Version : R01
Test Sample : Engineering Sample No.: DG20250228126
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 : Chella Zheng
Chella Zheng

Approved by : Welly Zhou
Welly Zhou

No.3, Jinshagang 1st Road, Dalang, Dongguan, Guangdong People's Republic of China.
Tel: +86-769-8318-3000 Web: www.newbtl.com Service mail: btl_qa@newbtl.com

REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-2-2502G032	R00	Original Report.	Apr. 24, 2025	Invalid
BTL-FCCP-2-2502G032	R01	Modified the comments.	May 21, 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

Ant.	Brand	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	3101507411	Microstrip	N/A	11
2	tp-link	3101507411	Microstrip	N/A	11

Note:

1) This EUT supports CDD, and all antennas have the same gain, Directional gain = $G_{ANT} + \text{Array Gain}$.

For power measurements, Array Gain=0dB ($N_{ANT} \leq 4$), so the Directional gain=11.

So, the UNII-1, UNII-3 output power limit is $30 - (11 - 6) = 25$.

2) When elevation angle above 30 degrees of antenna gain is -2 dBi.

3) The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For 5GHz:

Directional gain (dBi)	Directional 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
11	12.5893	24.93	311.1716	0.77974	1	Complies

Note:

(1) The calculated distance is 20 cm.

End of Test Report