

FCC RF EXPOSURE REPORT

FCC ID: 2BCGWBS1200

Project No. : 2404G013
Equipment : Smart Wi-Fi Light Switch
Brand Name : tp-link
Test Model : BS1200
Series Model : N/A
Applicant : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Manufacturer : TP-LINK CORPORATION PTE. LTD.
Address : 7 Temasek Boulevard #29-03 Suntec Tower One, Singapore 038987
Date of Receipt : Apr. 03, 2024
Date of Test : Apr. 06, 2024 ~ May 09, 2024
Issued Date : Aug. 16, 2024
Report Version : R00
Test Sample : Engineering Sample No.: SSL2024040320 for WiFi 2.4G,
SSL2024040317 for LE.
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.

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2404G013	R00	Original Report.	Aug. 16, 2024	Valid

1. MPE CALCULATION METHOD

Calculation Method of RF Safety Distance:

$$S = \frac{PG}{4\pi r^2} = \frac{EIRP}{4\pi r^2}$$

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	Model Name	Antenna Type	Connector	Gain (dBi)
1	TP-LINK CORPORATION PTE. LTD.	6035500141	PIFA	N/A	3.18

Note: The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For LE:

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
3.18	2.0797	8.80	7.5858	0.00314	1	Complies

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
3.18	2.0797	20.65	116.1449	0.04808	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report