

FCC RF EXPOSURE REPORT

FCC ID: 2BCGWBS2200

Project No. : 2401G104
Equipment : Smart Wi-Fi Dimmer Switch
Brand Name : tp-link
Test Model : BS2200
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 : Jan. 22, 2024
Date of Test : Jan. 22, 2024 ~ Feb. 05, 2024
Issued Date : Jun. 25, 2024
Report Version : R01
Test Sample : Engineering Sample No.: SSL20240122188
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091

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-3-2401G104	R00	Original Report.	Mar. 22, 2024	Invalid
BTL-FCCP-3-2401G104	R01	1. Changed the product name.	Jun. 25, 2024	Valid

1. TEST FACILITY

The test facilities used to collect the test data in this report is at the location of No. 3 Jinshagang 1st Rd. Shixia, Dalang Town, Dongguan City, Guangdong 523792.

BTL's Registration Number for FCC: 162128

BTL's Designation Number for FCC: CN5042

2. 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

3. TABLE FOR FILED ANTENNA

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	BIG FIELD GLOBAL PTE. LTD	BS2200(US)1.6	Dipole	N/A	2.93

Note: The antenna gain is provided by the manufacturer.

4. CALCULATED RESULT

For LE:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Peak Output Power (dBm)	Max. Peak Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
2.93	1.9634	10.68	11.6950	0.00457	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
2.93	1.9634	17.67	58.4790	0.02285	1	Complies

Note:

- 1) The calculated distance is 20 cm.
- 2) LE and 2.4GHz cannot be transmitted synchronously.

End of Test Report