

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