

FCC RF EXPOSURE REPORT

FCC ID: 2BCGWBP1100

Project No. : 2402G032
Equipment : 1) Mini Smart Wi-Fi Plug
2) Mini Smart Wi-Fi Plug, Energy Monitoring
Brand Name : tp-link
Test Model : 1) BP1100
Series Model : 2) Tapo P110M
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 : Feb. 06, 2024
Date of Test : Feb. 19, 2024 ~ Mar. 05, 2024
Issued Date : Jul. 18, 2024
Report Version : R01
Test Sample : Engineering Sample No.: SSL20240206176, SSL2024020617
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.

Prepared by

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Approved by

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REPORT ISSUED HISTORY

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2402G032	R00	Original Report.	Apr. 28, 2024	Invalid
BTL-FCCP-3-2402G032	R01	Added the series model: Tapo P110M, only differ in product name, model name and support voltage range which does not affect the test results.	Jul. 18, 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	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	BP1100-ANT1	IFA	N/A	1.14

Note: The antenna gain is provided by the manufacturer.

3. CALCULATED RESULT

For BT 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
1.14	1.3002	9.39	8.6896	0.00225	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
1.14	1.3002	18.64	73.1139	0.01892	1	Complies

Note: The calculated distance is 20 cm.

BT and 2.4G WIFI cannot be synchronized for transmission.

End of Test Report