

FCC RF EXPOSURE REPORT

FCC ID: 2AXJ4KP400V3

Project No. : 2011C174
Equipment : Kasa Smart Wi-Fi Outdoor Plug
Brand Name : tp-link
Test Model : KP400
Series Model : EP40
Applicant : TP-Link Corporation Limited
Address : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,
Tsim Sha Tsui, Kowloon, Hong Kong
Manufacturer : TP-Link Corporation Limited
Address : Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road,
Tsim Sha Tsui, Kowloon, Hong Kong
Date of Receipt : Nov. 23, 2020
Date of Test : Dec. 17, 2020 ~ Dec. 26, 2020
Issued Date : Jan. 08, 2021
Report Version : R00
Test Sample : Engineering Sample No.: DG20201123212
Standard(s) : FCC Guidelines for Human Exposure IEEE C95.1 & FCC Part 2.1091
FCC Title 47 Part 2.1091, OET Bulletin 65 Supplement C

The above equipment has been tested and found compliance with the requirement of the relative standards by BTL Inc.

Peggy Zhu

Prepared by : Peggy Zhu

Ethan Ma

Approved by : Ethan Ma



Certificate #5123.02

Add: No.3, Jinshagang 1st Road, Shixia, Dalang Town, Dongguan, Guangdong, China.

Tel: +86-769-8318-3000

Web: www.newbtl.com

REPORT ISSUED HISTORY

Report Version	Description	Issued Date
R00	Original Issue	Jan. 08, 2021

1. TEST FACILITY

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

BTL's Test Firm Registration Number for FCC: 357015

BTL's Designation Number for FCC: CN1240

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

Table for Filed Antenna:

Ant.	Brand	Model Name	Antenna Type	Connector	Gain (dBi)
1	TP-LINK	N/A	PCB	N/A	3.50
2	TP-LINK	N/A	PCB	N/A	1.50

Note:

- 1) The antenna gain is provided by the manufacturer.
- 2) Smart antenna system with two transmit/receive chains, but operating in a mode where only one transmit/receive chain is used.

3. TEST RESULTS

Ant.1:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
3.50	2.2387	20.40	109.6478	0.04886	1	Complies

Ant.2:

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm ²)	Limit of Power Density (S) (mW/cm ²)	Test Result
1.50	1.4125	20.38	109.1440	0.03069	1	Complies

Note: The calculated distance is 20 cm.

End of Test Report