

# FCC RF EXPOSURE REPORT

## FCC ID: 2AXJ4S500

The other test data were reissue from the FCC ID: 2AXJ4KS200, model name: KS200. Model difference(s):

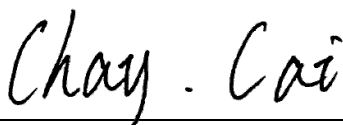
- Changed the product name.
- Changed the main chip to RTL8710CF from RTL8720CM.
- Deleted the LDO, peripheral one resistor and three capacitors.
- Deleted the flash and its surrounding resistance and capacitance devices.
- Removed LE function through software.

<b>Project No.</b>	: 2205C096A
<b>Equipment</b>	: Smart Wi-Fi Light Switch, Single Pole
<b>Brand Name</b>	: tp-link
<b>Test Model</b>	: Tapo S500
<b>Series Model</b>	: N/A
<b>Applicant</b>	: TP-Link Corporation Limited
<b>Address</b>	: Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
<b>Manufacturer</b>	: TP-Link Corporation Limited
<b>Address</b>	: Room 901, 9/F. , New East Ocean Centre, 9 Science Museum Road, Tsim Sha Tsui, Kowloon, Hong Kong
<b>Date of Receipt</b>	: May 20, 2022 Aug. 22, 2022
<b>Date of Test</b>	: May 23, 2022 ~ Jul. 14, 2022
<b>Issued Date</b>	: Sep. 21, 2022
<b>Report Version</b>	: R00
<b>Test Sample</b>	: Engineering Sample No.: DG2022052066
<b>Standard(s)</b>	: 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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Approved by : Chay Cai



TESTING CERT #5123.02

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**REPORT ISSUED HISTORY**

Report No.	Version	Description	Issued Date	Note
BTL-FCCP-3-2205C096A	R00	Original Report	Sep. 21, 2022	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 People's Republic of China.

BTL's 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	P/N	Antenna Type	Connector	Gain (dBi)
1	tp-link	6035500079	PIFA	N/A	2.98

Note: The antenna gain is provided by the manufacturer.

## 3. TEST RESULTS

Antenna Gain (dBi)	Antenna Gain (numeric)	Max. Average Output Power (dBm)	Max. Average Output Power (mW)	Power Density (S) (mW/cm <sup>2</sup> )	Limit of Power Density (S) (mW/cm <sup>2</sup> )	Test Result
2.98	1.9861	23.47	222.3310	0.08789	1	Complies

Note: The calculated distance is 20 cm.

Output power including tune up tolerance.

End of Test Report