



RF Exposure Evaluation Declaration

FCC ID: 2BH7FEAP773V2
Applicant: TP-Link Systems Inc.
Product: BE11000 Ceiling Mount Wi-Fi 7 Access Point
Model No.: EAP773
Brand Name: tp-link
FCC Rule Part(s): FCC Part 2.1091
Result: Complies
Evaluation Date: 2026-04-14

Reviewed By:

Yuri Li

Yuri Li

Approved By:

Robin Wu

Robin Wu



The test results relate only to the samples tested.

This equipment has been shown to be capable of compliance with the applicable technical standards as indicated in the measurement report. Testing was performed in accordance with the applicable measurement procedures. The test results reported herein apply only to the specific item(s) tested.

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Revision History

Report No.	Version	Description	Issue Date	Note
R25S1036128-U401	V01	Initial Report	2026-04-20	Valid

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1. General Information

1.1. Applicant

TP-Link Systems Inc.

10 Mauchly, Irvine, CA 92618

1.2. Manufacturer

TP-Link Systems Inc.

10 Mauchly, Irvine, CA 92618

1.3. Testing Facility

☒	Test Site - MRT Suzhou Laboratory
	Laboratory Location (Suzhou - Wuzhong) D8 Building, No.2 Tian'edang Rd., Wuzhong Economic Development Zone, Suzhou, China
	Laboratory Location (Suzhou - SIP) 4b Building, Liando U Valley, No.200 Xingpu Rd., Shengpu Town, Suzhou Industrial Park, China
	Laboratory Location (Suzhou - Wujiang) Building 1, No.1 Xingdong Road, Wujiang, Suzhou, Jiangsu, People's Republic of China
	Laboratory Accreditations
	A2LA: 3628.01 FCC: CN1166
☐	Test Site - MRT Shenzhen Laboratory
	Laboratory Location (Shenzhen) 1G, Building A, Junxiangda Building, Zhongshanyuan Road West, Nanshan District, Shenzhen, China
	Laboratory Accreditations
	A2LA: 3628.02 FCC: CN1284
☐	Test Site - MRT Taiwan Laboratory
	Laboratory Location (Taiwan) No. 38, Fuxing 2nd Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)
	Laboratory Accreditations
	TAF: 3261 FCC: 291082, TW3261

1.4. Product Information

Product	BE11000 Ceiling Mount Wi-Fi 7 Access Point	
Model No.	EAP773	
Brand Name	tp-link	
Hardware Version	2.0	
Software Version	2.0	
Wi-Fi Specification	802.11a/b/g/n/ac/ax/be	
Bluetooth Specification	BLE only	
Antenna Information	Refer to section 1.7	
Power Type	AC/DC Adapter or PoE	
Operating Environment	☒ Indoor Use	☐ Outdoor Use
Accessory(ies)		
AC/DC Adapter	Model: T120250 - 2B4 Input: 100-240 V 50/60 Hz 0.8 A Output: 12 V DC 2.5 A	
PoE Adapter	Model: POE4824G Input: 100-240 V ~ 50/60 Hz 0.8 A Output: 48 V DC 0.5 A 24.0 W	
Notes: 1. The information of the EUT (Equipment Under Test) was provided by the manufacturer. The accuracy, completeness, and validity of the information are solely the responsibility of the manufacturer. 2. For this report, we select AC Adapter for testing. 3. AC/DC Adapter and PoE Injector are not marketed in conjunction with the device.		

1.5. Antenna Details

BLE

Antenna Type	Frequency Band (MHz)	Antenna Gain (dBi)
PIFA	2400 ~ 2483.5	5.0

Wi-Fi

Antenna Type	Frequency	Tx Paths	Number of spatial streams	Antenna Gain				CDD Directional Gain (dBi)	
	Band (MHz)			(dBi)				For Power	For PSD
				Ant 1	Ant 2	Ant 3	Ant 4		
Wi-Fi 2.4G									
PIFA	2400 ~ 2483.5	2	1	4.79	4.52	--	--	3.0	4.0
Wi-Fi 5G									
PIFA	5150 ~ 5250	2	1	--	--	6.02	5.20	3.0	5.0
	5250 ~ 5350	2	1	--	--	6.02	6.30	3.0	5.0
	5470 ~ 5725	2	1	--	--	6.53	6.03	3.0	5.0
	5725 ~ 5850	2	1	--	--	6.98	6.02	3.0	5.0
Wi-Fi 6G									
PIFA	5925 ~ 6425	2	1	5.20	6.54	--	--	3.0	5.0
		2	2	5.20	6.54	--	--	3.0	3.0
	6425 ~ 6525	2	1	4.42	6.40	--	--	3.0	5.0
		2	2	4.42	6.40	--	--	3.0	3.0
	6525 ~ 6875	2	1	5.34	7.37	--	--	3.0	5.0
		2	2	5.34	7.37	--	--	3.0	3.0
	6875 ~ 7125	2	1	4.70	7.22	--	--	3.0	5.0
		2	2	4.70	7.22	--	--	3.0	3.0

Notes:

1. The EUT supports Cyclic Delay Diversity (CDD) mode, and CDD signals are correlated.
2. The EUT also supports Beam Forming mode, and the Beam Forming support 802.11n/ac/ax/be, not include 802.11a/b/g.
3. The antenna gain is from antenna report that was provided by the applicant.

1.6. Device Classification

According to the user manual, this device is classified as a Mobile Device. So, the RF exposure evaluation requirements of § 2.1091 for mobile device exposure conditions subject to MPE limits.

1.7. Applied Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- FCC Part 2.1091
- KDB 447498 D04 Interim General RF Exposure Guidance v01

2. RF Exposure Evaluation

2.1. Limits

According to FCC §1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in §1.1307(b)

Limits For Maximum Permissible Exposure (MPE)

Frequency Range (MHz)	Electric Field Strength (V/m)	Magnetic Field Strength (A/m)	Power Density (mW/cm ²)	Average Time (Minutes)
(A) Limits for Occupational/ Control Exposures				
0.3 ~ 3.0	614	1.63	*(100)	≤6
3.0 ~ 30	1842/f	4.89/f	*(900/f ²)	<6
30 ~ 300	61.4	0.163	1.0	<6
300 ~ 1500	--	--	f/300	<6
1500 ~ 100000	--	--	5	<6
(B) Limits for General Population/ Uncontrolled Exposures				
0.3 ~ 1.34	614	1.63	*(100)	<30
1.34 ~ 30	824/f	2.19/f	*(180/f ²)	<30
30 ~ 300	27.5	0.073	0.2	<30
300 ~ 1500	--	--	f/1500	<30
1500 ~ 100000	--	--	1.0	<30

f= frequency in MHz. * = Plane-wave equivalent power density.

2.2. MPE Exemptions

For single RF sources (i.e., any single fixed RF source, mobile device, or portable device, as defined in paragraph §1.1307(b)(2) of this section): A single RF source is exempt if:

(Option A) The available maximum time-averaged power is no more than 1 mW, regardless of separation distance. This exemption may not be used in conjunction with other exemption criteria other than those in paragraph §1.1307(b)(3)(ii)(A) of this section.

Medical implant devices may only use this exemption and that in paragraph §1.1307(b)(3)(ii)(A);

(Option B) Or the available maximum time-averaged power or effective radiated power (ERP), whichever is greater, is less than or equal to the threshold P (mW) described in the following formula. This method shall only be used at separation distances (cm) from 0.5 centimeters to 40 centimeters and at frequencies from 0.3 GHz to 6 GHz (inclusive). P is given by:

$$P_{th}(mW) = \{ERP_{20cm}(d/20 \text{ cm})^x \quad d \leq 20 \text{ cm}$$

$$P_{th}(mW) = \{ERP_{20cm} \quad 20 \text{ cm} < d \leq 40 \text{ cm}$$

Where

$$x = -\log_{10} \left(\frac{60}{ERP_{20cm}\sqrt{f}} \right) \text{ and } f \text{ is in GHz;}$$

and

$$ERP_{20cm}(mW) = \{2040f \quad 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz}$$

$$ERP_{20cm}(mW) = \{3060 \quad 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz}$$

(Option C) Or using Table 1 and the minimum separation distance (R in meters) from the body of a nearby person for the frequency (f in MHz) at which the source operates, the ERP (watts) is no more than the calculated value prescribed for that frequency. For the exemption in Table 1 to apply, R must be at least $\lambda/2\pi$, where λ is the free-space operating wavelength in meters. If the ERP of a single RF source is not easily obtained, then the available maximum time-averaged power may be used in lieu of ERP if the physical dimensions of the radiating structure(s) do not exceed the electrical length of $\lambda/4$ or if the antenna gain is less than that of a half-wave dipole (1.64 linear value).

Table 1 to §1.1307(b)(3)(i)(C) - Single RF Sources Subject to Routine Environmental Evaluation

RF Source Frequency (MHz)	Threshold ERP (watts)
0.3 ~ 1.34	1920R ²
1.34 ~ 30	3450R ² /f ²
30 ~ 300	3.83R ²
300 ~ 1500	0.0128R ² f
1500 ~ 100000	19.2R ²

For multiple RF sources: Multiple RF sources are exempt if:

(A) The available maximum time-averaged power of each source is no more than 1 mW and there is a separation distance of two centimeters between any portion of a radiating structure operating and the nearest portion of any other radiating structure in the same device, except if the sum of multiple sources is less than 1 mW during the time-averaging period, in which case they may be treated as a single source (separation is not required). This exemption may not be used in conjunction with other exemption criteria other than those in paragraph §1.1307(b)(3)(i)(A) of this section. Medical implant devices may only use this exemption and that in paragraph §1.1307(b)(3)(i)(A).

(B) in the case of fixed RF sources operating in the same time-averaging period, or of multiple mobile or portable RF sources within a device operating in the same time averaging period, if the sum of the fractional contributions to the applicable thresholds is less than or equal to 1 as indicated in the following equation.

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

Where:

a = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(B) of this section for P_{th} , including existing exempt transmitters and those being added.

b = number of fixed, mobile, or portable RF sources claiming exemption using paragraph §1.1307(b)(3)(i)(C) of this section for Threshold ERP, including existing exempt transmitters and those being added.

c = number of existing fixed, mobile, or portable RF sources with known evaluation for the specified minimum distance including existing evaluated transmitters.

P_i = the available maximum time-averaged power or the ERP, whichever is greater, for fixed, mobile, or portable RF source i at a distance between 0.5 cm and 40 cm (inclusive).

$P_{th,i}$ = the exemption threshold power (P_{th}) according to paragraph §1.1307(b)(3)(i)(B) of this section for fixed, mobile, or portable RF source i .

ERP_j = the ERP of fixed, mobile, or portable RF source j .

$ERP_{th,j}$ = exemption threshold ERP for fixed, mobile, or portable RF source j , at a distance of at least $\lambda/2\pi$ according to the applicable formula of paragraph §1.1307(b)(3)(i)(C) of this section.

$Evaluated_k$ = the maximum reported SAR or MPE of fixed, mobile, or portable RF source k either in the device or at the transmitter site from an existing evaluation at the location of exposure.

$Exposure Limit_k$ = either the general population/uncontrolled maximum permissible exposure (MPE) or specific absorption rate (SAR) limit for each fixed, mobile, or portable RF source k , as applicable from §1.1310 of this chapter.

2.3. Calculated Result

Product	BE11000 Ceiling Mount Wi-Fi 7 Access Point
Test Item	RF Exposure Evaluation

Test Mode	Frequency Band (MHz)	Tune-up Conducted Power (dBm)	Antenna Gain (dBi)	Tune-up ERP (dBm)	Tune-up ERP (mW)
BLE	2400 ~ 2483.5	20.50	5.0	23.35	216.27
2.4 GHz Wi-Fi	2400 ~ 2483.5	27.51	3.0	28.36	685.49
5 GHz Wi-Fi	5150 ~ 5850	27.51	3.0	28.36	685.49
6 GHz Wi-Fi	6105 ~ 7125	27.51	3.0	28.36	685.49

Notes:

1. Tune-up Conducted Power (dBm) was declared by manufacturer.
2. Tune-up ERP (dBm) = Tune up Conducted Power (dBm) + Antenna Gain (dBi) - 2.15.

For BLE/2.4 GHz Wi-Fi /5 GHz Wi-Fi Antenna, Option B

Test Mode	Frequency Band (MHz)	R (m)	Tune-up ERP (mW)	Threshold ERP (mW)
BLE	2400 ~ 2483.5	0.28	216.27	3060.0
2.4 GHz Wi-Fi	2400 ~ 2483.5	0.28	685.49	3060.0
5 GHz Wi-Fi	5150 ~ 5850	0.28	685.49	3060.0

Note: The distance R used in the MPE calculation is specified in the user manual.

For 6 GHz Wi-Fi Antenna, Option C

Test Mode	Frequency Band (MHz)	$\lambda / 2 \pi$ (m)	R (m)	Tune-up ERP (mW)	Thresholds ERP (mW)
6 GHz Wi-Fi	6105 ~ 7125	0.008	0.28	685.49	1505.28

Notes:

1. The distance R used in the MPE calculation is specified in the user manual.
2. The EUT supports simultaneous transmissions of BLE + 2.4 GHz Wi-Fi + 5 GHz Wi-Fi + 6 GHz Wi-Fi, therefore, the worst-case total exposure ratios = $216.27/3060.0 + 685.49/3060.0 + 685.49/3060.0 + 685.49/1505.28 = 0.9741 < 1$.

CONCLUSION:

The device qualifies for RF exposure test exemption at 28 cm distance.

The End