

RF Exposure

Applicant : Shenzhen DZH Industrial Co., LTD
Address : 3th Floor, DZH Industrial A building, Bu Yong Industrial D zone, Shajing, Baoan, Shenzhen, China
Product Name : Touchpad
Brand Mark : N/A
Model : TP2
FCC ID : 2AFW2-TP2
Report Number : BLA-EMC-202608-A60-04
Date of Receipt : Aug. 18, 2026
Date of Test : Aug. 18, 2026 to Sep. 9, 2026
47 CFR Part 15, Part1.1307
Test Standard : 47 CFR Part 15, Part2.1093
KDB447498D04 General RF Exposure Guidance v01
Test Result : Pass

Compiled by:

Hugh

Review by:

Xavier

Approved by:

Blue Zheng

Issued Date: Sep. 24, 2026

BlueAsia Technical Services (Shenzhen) Co., Ltd

Address: No.41, South of Beihuan Road, Shangwu Community, Shiyan
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Table of Contents

1	General information	4
1.1	General information	4
1.2	General description of EUT	4
2	Laboratory and accreditations	6
3	RF Exposure Compliance Requirement	7
3.1	Standard Requirement	7
3.2	Limits	7
3.3	Result	8

Revise Record

Version No.	Date	Description
01	Sep. 24, 2026	Original

1 General information

1.1 General information

Applicant	Shenzhen DZH Industrial Co., LTD
Address	3th Floor, DZH Industrial A building, Bu Yong Industrial D zone, Shajing, Baoan, Shenzhen, China
Manufacturer	Shenzhen DZH Industrial Co., LTD
Address	3th Floor, DZH Industrial A building, Bu Yong Industrial D zone, Shajing, Baoan, Shenzhen, China
Factory	Shenzhen DZH Industrial Co., LTD
Address	3th Floor, DZH Industrial A building, Bu Yong Industrial D zone, Shajing, Baoan, Shenzhen, China

1.2 General description of EUT

Product name	Touchpad
Model no.	TP2
Series model	N/A
Power supply	DC5V by USB DC3.7V by battery
Hardware Version	1.4
Software Version	V1.0

BLE:

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB antenna
Antenna Gain:	1.87dBi (Provided by customer)

2.4G:

Operation Frequency:	2402MHz-2480MHz
Modulation Type:	GFSK
Rate data:	1Mbps; 2Mbps
Channel Spacing:	2MHz
Number of Channels:	40
Antenna Type:	PCB antenna
Antenna Gain:	1.87dBi (Provided by customer)

2 Laboratory and accreditations

The test facility is recognized, certified, or accredited by the following organizations:

Company name:	BlueAsia Technical Services (Shenzhen) Co.,Ltd.
Address:	No.41, South of Beihuan Road, Shangwu Community, Shiyan Subdistrict, Bao'an District, Shenzhen, Guangdong, China
CNAS accredited No.:	L9788
A2LA Cert. No.:	5071.01
FCC Designation No.:	CN1252
ISED CAB identifier No.:	CN0028
Telephone:	+86-755-28682673
FAX:	+86-755-28682673

3 RF Exposure Compliance Requirement

3.1 Standard Requirement

According to 447498 D04 Interim General RF Exposure Guidance v01

Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

3.2 Limits

$$P_{th} \text{ (mW)} = \begin{cases} ERP_{20 \text{ cm}} (d/20 \text{ cm})^x & d \leq 20 \text{ cm} \\ ERP_{20 \text{ cm}} & 20 \text{ cm} < d \leq 40 \text{ cm} \end{cases} \quad (\text{B. 2})$$

where

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

and f is in GHz, d is the separation distance (cm), and $ERP_{20 \text{ cm}}$ is per Formula (B.1).

Example values shown in Table B.2 are for illustration only.

Table B.2—Example Power Thresholds (mW)

Frequency (MHz)	Distance (mm)										
	5	10	15	20	25	30	35	40	45	50	
	300	39	65	88	110	129	148	166	184	201	217
	450	22	44	67	89	112	135	158	180	203	226
	835	9	25	44	66	90	116	145	175	207	240
	1900	3	12	26	44	66	92	122	157	195	236
	2450	3	10	22	38	59	83	111	143	179	219
	3600	2	8	18	32	49	71	96	125	158	195
	5800	1	6	14	25	40	58	80	106	136	169

$$P_{th} \text{ (mW)} = ERP_{20 \text{ cm}} \text{ (mW)} = \begin{cases} 2040f & 0.3 \text{ GHz} \leq f < 1.5 \text{ GHz} \\ 3060 & 1.5 \text{ GHz} \leq f \leq 6 \text{ GHz} \end{cases} \quad (\text{B. 1})$$

3.3 Result

$$\text{EIRP} = \text{pt} \times \text{gt} = (\text{E} \times \text{d})^2 / 30$$

Where:

pt = transmitter output power in watts,

gt = numeric gain of the transmitting antenna (unitless),

E = electric field strength in V/m,

d = measurement distance in meters (m)

$$\text{Spot} = (\text{E} \times \text{d})^2 / 30 \times \text{gt}$$

Separation distance = 0.5cm

Ant gain = 1.87dBi

For BLE(Worst):

Max Output power = -0.707dBm @ 2402MHz BLE1M

$$\text{EIRP} = -0.707\text{dBm} + 1.87\text{dBi} = 1.163\text{dBm} = 1.307\text{mW} < 2.788\text{mW}$$

$$\text{ERP} = 1.163 - 2.15 = -0.987\text{dBm}$$

Comply with RF exposure exemption limit.

For 2.4G(Worst):

Ant gain = 1.87 dBi [-0.28dBd(0.938)]

Field strength = 86.22 dBμV/m @3m @2480MHz

$$\text{So Pt} = (((10^{(86.22/20)} / 10^6 \times 3)^2) / 30) \times 1000 \text{ mW} = 0.12564\text{mW} < 2.717\text{mW}$$

$$\text{So ERP} = 0.12564 \times 0.938 = 0.118 < 2.717\text{mW}$$

Comply with RF exposure exemption limit.

----END OF REPORT----

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