



Test Report No.:
FCC2023-0029-H

RF Test Report

EUT	:	Bluetooth keyboard
MODEL	:	BAIPTHK109
BRAND NAME	:	N/A
APPLICANT	:	Digital Gadgets LLC
CLASSIFICATION OF TEST	:	N/A

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Applicant		Name: Digital Gadgets LLC Address: 183 Locust Ave #427, West Long Branch, NJ	
Manufacturer		Name: Digital Gadgets LLC Address: 183 Locust Ave #427, West Long Branch, NJ	
Equipment Under Test		Name: Bluetooth keyboard Model/Type: BAIPTHK109 Brand: N/A Serial NO.: N/A Sample NO.: 3-1	
Date of Receipt.	2023.06.01	Date of Testing	2023.06.01~2023.06.09
Test Specification		Test Result	
FCC Part 2 (Section 2.1091) KDB 447498 D04		PASS	
Evaluation of Test Result		The equipment under test was found to comply with the requirements of the standards applied. Seal of CVC Issue Date: 2023.06.12	
Tested by:  Xu ZhenFei Name Signature		Reviewed by:  Liu YongHai Name Signature	Approved by:  Chen HuaWen Name Signature
Other Aspects: NONE.			
Abbreviations: OK, Pass= passed Fail = failed N/A= not applicable EUT= equipment, sample(s) under tested			

This test report relates only to the EUT, and shall not be reproduced except in full, without written approval of CVC.



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RELEASE CONTROL RECORD

ISSUE NO.	REASON FOR CHANGE	DATE ISSUED
FCC2023-0029-H	Original release	2023.06.12



1. GERTIFICATION

PRODUCT	Bluetooth keyboard
BRAND	N/A
MODEL	BAIPTHK109
FCC ID	X2K-BAIPTHK109
POWER SUPPLY	1. DC 5V from USB host unit 2. DC 3.7V from Li-ion battery
MODULATIONTECHNOLOGY	GFSK
MODULATION TYPE	GKSK for BT-LE
OPERATING FREQUENCY	2402MHz ~ 2480MHz for BT-LE (1Mbps)
NUMBER OF CHANNEL	BT-LE GFSK (1Mbps): 40
PEAK OUTPUT POWER	-0.26dBm (Maximum)
ANTENNA TYPE (Remark 4)	PCB Antenna, with 1.5dBi gain
HARDWARE VERSION:	V3.0
SOFTWARE VERSION:	V3.0
I/O PORTS	Refer to user's manual
CABLE SUPPLIED	Micro USB Cable, 0.5m, non-detachable, unshielded
Remark: 1. For more detailed features description, please refer to the manufacturer's specifications or the User's Manual. 2. For the test results, the EUT had been tested with all conditions. But only the worst case was shown in test report. 3. Please refer to the EUT photo document for detailed product photo. (Report NO.: FCC2023-0029-E) 4. Please refer to the antenna report. 5. Since the above data and/or information is provided by the client relevant results or conclusions of this report are only made for these data and/or information, CVC is not responsible for the authenticity, integrity and results of the data and information and/or the validity of the conclusion.	



2. RF EXPOSURE LIMIT

According to Part2.1093, Evaluation of compliance with the exposure limits in § 1.1310 of this chapter, and preparation of an EA if the limits are exceeded, is necessary for portable devices having single RF sources with more than an available maximum time-averaged power of 1 mW, more than the ERP listed in Table 1 to § 1.1307(b)(3)(i)(C), or more than the Pth in the following formula, whichever is greater. The following formula shall only be used in conjunction with portable devices not exempt by § 1.1307(b)(3)(i)(C) at distances from 0.5 centimeters to 20 centimeters and frequencies from 0.3 GHz to 6 GHz. P is given as:

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

Where:

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

and f is in GHz;

and

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



3. CLASSIFICATION

The antenna of this product, under normal use condition, is within 20 centimeters of the body of the user So, this device is classified as **Portable Device**.

4. ANTENNA GAIN

The antennas provided to the EUT, please refer to the following table:

Transmitter Circuit	Peak Gain (dBi)	Antenna Type
BT-LE	1.5	PCB Antenna

This is provided by the manufacturer. The laboratory is not responsible for technical data provided by the customer.

5. CALCULATION RESULT OF MAXIMUM CONDUCTED AV POWER

The measured Conducted Average Power

Mode	Frequency (MHz)	Target Power (dBm)	Tolerance (dBm)	Lower Tolerance (dBm)	Upper Tolerance (dBm)
BT-LE	2402 ~ 2480	1	+1	0	2

The tuned Conducted Average Power (declared by client)

Technology	Maximum conducted power (dBm)	Maximum Antenna Gain (dBi)	EIRP (dBm)	ERP (dBm)	ERP (mW)	Part1.1307b Threshold (mW)	Verify
BT-LE	-0.26	1.5	1.24	-0.91	0.81	1	PASS

----- End of the Report -----



Important

- (1) The test report is valid without the official stamp of CVC;
- (2) Any part photocopies of the test report are forbidden without the written permission from CVC;
- (3) The test report is invalid without the signatures of Approval and Reviewer;
- (4) The test report is invalid if altered;
- (5) Objections to the test report must be submitted to CVC within 15 days.
- (6) Generally, commission test is responsible for the tested samples only.
- (7) As for the test result “-” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”

The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.

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