TCT 通测检测 TESTING CENTRE TECHNOLOGY

TEST REPORT

FCC ID. ..... :	ZPY-CASCADE
Test Report No..... :	TCT220815E014
Date of issue..... :	Aug. 23, 2022
Testing laboratory ..... :	SHENZHEN TONGCE TESTING LAB
Testing location/ address:	2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China
Applicant's name..... :	AZIO Corporation
Address..... :	19933 Harrison Ave. City of Industry, California 91789, United States
Manufacturer's name ... :	AZIO Corporation
Address..... :	19933 Harrison Ave. City of Industry, California 91789, United States
Standard(s) ..... :	FCC CFR Title 47 Part 1.1307 KDB 447498 D04 Interim General RF Exposure Guidance v01
Product Name..... :	WIRELESS BACKLIT MECHANICAL KEYBOARD
Trade Mark ..... :	AZIO
Model/Type reference..... :	Refer to model(s) list of page 3
Rating(s)..... :	Rechargeable Li-ion Battery DC 3.7V
Date of receipt of test item ..... :	Aug. 15, 2022
Date (s) of performance of test..... :	Aug. 15, 2022 - Aug. 23, 2022
Tested by (+signature) ... :	Onnado YE
Check by (+signature).... :	Beryl ZHAO
Approved by (+signature):	Tomsin

General disclaimer:

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Hotline: 400-6611-140 Tel: 86-755-27673339 Fax: 86-755-27673332 http://www.tct-lab.com

1. General Product Information

1.1. EUT description

Product Name.....:	WIRELESS BACKLIT MECHANICAL KEYBOARD
Model/Type reference.....:	Cascade
Sample Number.....:	TCT220815E013-0101
Operation Frequency.....:	2402MHz~2480MHz
Modulation Type.....:	GFSK
Antenna Type.....:	PCB Antenna
Antenna Gain.....:	2.7dBi
Rating(s).....:	Rechargeable Li-ion Battery DC 3.7V

Note: The antenna gain listed in this report is provided by applicant, and the test laboratory is not responsible for this parameter.

1.2. Model(s) list

No.	Model No.	Tested with
1	Cascade	☒
Other models	Cascade Slim, CRG2G201, CRG1G201, CRG3G201, CRG4G201, CRG1G104, CRG2G104, CRG3G104, CRG4G104, CSG20301, CSG10301, CSG40301, CSG10404, CSG20404, CSG40404 CRGXXXXX, CSGXXXXX, CRBBXX, CSBBXX (X: Letter A-Z, number 0-9, or space, used to distinguish between different customers, different colors, different packaging, do not affect the product safety and electromagnetic compatibility.)	☐

Note: Cascade is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names, battery capacity and appearance. So the test data of Cascade can represent the remaining models.

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2. General Information

2.1. Test environment and mode

Item	Normal condition
Temperature	+25ºC
Voltage	DC 3.7V
Humidity	56%
Atmospheric Pressure:	1008 mbar
Test Mode:	
Engineering mode:	Keep the EUT in continuous transmitting by select channel

2.2. Description of Support Units

The EUT has been tested as an independent unit together with other necessary accessories or support units. The following support units or accessories were used to form a representative test configuration during the tests.

Equipment	Model No.	Serial No.	FCC ID	Trade Name
/	/	/	/	/

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3. Facilities and Accreditations

3.1. Facilities

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

- FCC - Registration No.: 645098

  SHENZHEN TONGCE TESTING LAB

  Designation Number: CN1205

  The testing lab has been registered and fully described in a report with the (FCC) Federal Communications Commission. The acceptance letter from the FCC is maintained in our files.

- IC - Registration No.: 10668A-1

  SHENZHEN TONGCE TESTING LAB

  CAB identifier: CN0031

  The testing lab has been recognized by Innovation, Science and Economic Development Canada for radio equipment testing.

3.2. Location

SHENZHEN TONGCE TESTING LAB

Address: 2101 & 2201, Zhenchang Factory, Renshan Industrial Zone, Fuhai Subdistrict, Bao'an District, Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339

4. Test Results and Measurement Data

§ 2.1093 Radiofrequency radiation exposure evaluation: Portable Devices.

According to § 15.247(i) and § 1.1307b(1), systems operating under the provisions of this section shall be operated in a manner that ensures that the public is not exposed to radio frequency energy level in excess of the commission's guidance.

The 1-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW) / (min. test separation distance, mm)] · [√f(GHz)] ≤ 3.0 for 1-g SAR, where

- f(GHz) is the RF channel transmit frequency in GHz
- Power and distance are rounded to the nearest mW and mm before calculation
- When the minimum test separation distance is < 5 mm, a distance of 5 mm according is applied to determine SAR test exclusion.
- The result is rounded to one decimal place for comparison

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Channel	Frequency (GHz)	Max. Power (dBm)	Tune up Power (dBm)	Max. Tune up Power (dBm)	Max. Tune up Power (mW)	Test distance (mm)	Result	exclusion thresholds for 1-g SAR
CH 78	2.480	-3.89	-4±1	-3	0.50	5	0.16	3.0

Result:
Base on the calculation value, No SAR measurement is required.

********END OF REPORT********

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