

	TEST REPO	RT
FCC ID:	ZPY-CASCADE98	
Test Report No::	TCT230109E037	
Date of issue::	Jan. 16, 2023	
Testing laboratory:	SHENZHEN TONGCE TEST	TING LAB
Testing location/ address:		actory, Renshan Industrial Zone, strict, Shenzhen, Guangdong, of China
Applicant's name::	AZIO Corporation	
Address:	19933 Harrison Ave. City of States	Industry, California 91789, United
Manufacturer's name:	AZIO Corporation	
Address::	19933 Harrison Ave. City of States	Industry, California 91789, United
Standard(s)::	KDB 447498 D01 General R	F Exposure Guidance v06
Product Name::	KEYBOARD	
Trade Mark:	AZIO	
Model/Type reference:	CRG4G191, CSG10394, CS CRBB94, CSBB91, CSBB94 A-Z, number 0-9, or space, u	Slim, CRG2G191, CRG1G191, GG20394, CSG40394, CRBB91, I, CRGXXXXX, CSGXXXXX(X: Letter used to distinguish between different different packaging, do not affect the agnetic compatibility.)
Rating(s)::	Rechargeable Li-ion Battery	DC 3.7V
Date of receipt of test item	Jan. 09, 2023	
Date (s) of performance of test:	Jan. 09, 2023 - Jan. 16, 2023	3
Tested by (+signature) :	Rleo LIU	Reo Un songces
Check by (+signature):	Beryl ZHAO	Boyl 20 TCT)
Approved by (+signature):	Tomsin	Toms in the

General disclaimer:

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1. General Product Information

1.1. EUT description

Product Name:	KEYBOARD	(3)		
Model/Type reference:	CASCADE 98			
Sample Number:	TCT230109E031-0101			
Operation Frequency:	BT: 2402MHz~2480MHz 2.4G TX: 2403MHz~2480MHz			
Modulation Type:	GFSK			
Antenna Type:	PCB Antenna			
Antenna Gain:	2.34dBi			
Rating(s):	Rechargeable Li-ion Battery DC	3.7V	(C)	

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 98	
Other models	Cascade 98 Slim, CRG2G191, CRG1G191, CRG4G191, CSG10394, CSG20394, CSG40394, CRBB91, CRBB94, CSBB91, CSBB94, CRGXXXXX, CSGXXXXX(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 98 is tested model, other models are derivative models.



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2. General Information

2.1. Test environment and mode

Item	Normal condition						
Temperature	+25°C						
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	Equipment Model No.		FCC ID	Trade Name	
1	1	1	1	1	

Note:

- 1. All the equipment/cables were placed in the worst-case configuration to maximize the emission during the test.
- 2. Grounding was established in accordance with the manufacturer's requirements and conditions for the intended use.
- 3. For conducted measurements (Output Power, 20dB Occupied Bandwidth, Carrier Frequencies Separation, Hopping Channel Number, Dwell Time, Spurious Emissions), the antenna of EUT is connected to the test equipment via temporary antenna connector, the antenna connector is soldered on the antenna port of EUT, and the temporary antenna connector is listed in the Test Instruments.

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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 registered by Certification and Engineering Bureau of Industry 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

According to KDB 447498 D01 General RF Exposure Guidance v06, 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)] $[\sqrt{f(GHz)}] \le 3.0$ 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

BDR:

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 39	2.441	-3.02	-4±1	-3	0.50	5	0.16	3.0

2.4G TX:

The maximum peak radiation emission for the EUT is 83.27 dBuV/m at 3 m with frequency 2403 MHz, EIRP[dBm] = E[dB μ V/m] + 20 log (d[m]) – 104.77 =-11.96 dBm.

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 0	2.403	-11.96	-12±1	-11	0.08	5	0.02	3.0

Result:

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

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

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