



Report No: TW2503094-04E

Applicant: Eastern Times Technology Co., Ltd

Product: 3-MODES 98 KEY GASKET HOT-SWAPPABLE RGB MECHANICAL KEYBOARD

Model No: K686WB-RGB-PRO, K686AK-RGB-PRO, ET-7199, K688GB-RGB-PRO, K686WBG-RGB-MAX

Trademark: REDRAGON

Test Standards: EN 50663:2017, EN 62479:2010

Test Result: The health evaluation has been performed on the submitted samples and found in compliance with council Radio Equipment Directive (RED) 2014/53/EU

Approved By

A handwritten signature in black ink that reads 'Terry Tang'.

Terry Tang

EMC Manager

Dated: March 05, 2025

Results appearing herein relate only to the sample tested

The technical reports is issued errors and omissions exempt and is subject to withdrawal at

SHENZHEN TIMEWAY TESTING LABORATORIES.

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

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TEST REPORT



Special Statement:

FCC-Registration No.: 744189

The EMC Laboratory has been registered and fully described in a report filed with the (FCC) Federal Communications commission. The acceptance letter from the FCC is maintained in our files. Registration No.: 744189.

Industry Canada (IC) —Registration No.:5205A

The EMC Laboratory has been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 5205A.

A2LA (Certification Number:5013.01)

The EMC Laboratory has been accredited by the American Association for Laboratory Accreditation (A2LA). Certification Number:5013.01

CAB identifier: CN0033

The report refers only to the sample tested and does not apply to the bulk.

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1. General Information

1.1 Notes

The test results of this report relate exclusively to the test item specified in 1.5. The TIMEWAY Lab does not assume Responsibility for any conclusions and generalizations drawn from the test results with regard to other specimens or samples of the type of the equipment represented by the test item. The test report may only be reproduced or published in full. Reproduction or publication of extracts from the report requires the prior written approval of the TIMEWAY Lab.

1.2 Testing Laboratory

SHENZHEN TIMEWAY TESTING LABORATORIES.

Zone C, 1st Floor, Block B, Jun Xiang Da Building, Zhongshan Park Road West, Tong Le Village, Nanshan District, Shenzhen, China

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Internet: www.timewaytech-lab.com

Site on File With the Federal Communications and Commission – United States

Registration Number: 744189

For 3m Anechoic Chamber

Site Listed with Industry Canada of Ottawa, Canada

Registration Number: IC: 5205A

For 3m Anechoic Chamber

1.3 Details of Applicant

Name: Eastern Times Technology Co., Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

1.4 Application Details

Date of Receipt of Application: September 10, 2024

Date of Receipt of Test Item: September 10, 2024

Date of Test: September 10, 2024 ~ March 05, 2025

Note: This is an addition test report based on original one: TW2409128-04E. Only one model (K686WBG-RGB-MAX) is added. This model is identical with the original ones in the PCB, Schematics and constructions. Only the silk printing is different.

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1.5 Test Item

Manufacturer: Eastern Times Technology Co., Ltd

Address: Building D, Nan An Industrial Area, Youganpu Village, Fenggang Town, Dongguan City, Guangdong, China.

Trademark: REDRAGON

Model No.: K686WB-RGB-PRO

Additional Model: K686AK-RGB-PRO, ET-7199, K688GB-RGB-PRO, K686WBG-RGB-MAX

Description: 3-MODES 98 KEY GASKET HOT-SWAPPABLE RGB MECHANICAL KEYBOARD

Additional Information

Frequency 1: 2405MHz-2475MHz for Keyboard/dongle Part

Channel Number: 16

Channel List (unit: MHz): 2405, 2463, 2441, 2426, 2408, 2466, 2445, 2422, 2414, 2471, 2459, 2433, 2419, 2475, 2453, 2447

Modulation Type: GFSK

Frequency 2: 2402MHz-2480MHz for Keyboard/dongle Part

Channel Separation: 1MHz for Bluetooth

Modulation Type: GFSK (Bluetooth)

Antenna Designation: PCB antenna with maximum gain 2.34dBi for Keyboard part and -0.71dBi for USB dongle part

Rating: DC5V hosted from PC for USB dongle part; DC5V, 500mA or DC3.7V, 120mA for Keyboard Part

Battery: DC3.7V, 3000mAh Li-ion battery or Keyboard part (Li-ion battery)

Operation Distance: N/A

Resolution: N/A

Extreme Temp. Tolerance: -20°C to 55°C

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According to EN 50663:2017 and EN 62479:2010

---- The justification for this criterion is that the most stringent basic restriction at frequencies between 10 MHz and 10 GHz is on localized SAR in the head. Any device with output power below 20 mW cannot produce an exposure exceeding this restriction under the most pessimistic exposure conditions.

$$20\text{mW}=13.01\text{dBm}$$

Dongle Part:

Test Data

The EUT was tested EIRP: -8.06dBm < 13.01dBm

Keyboard Part:

Test Data

The EUT was tested EIRP: 4.41dBm < 13.01dBm

Note: worst cases were recorded

Test Result:

The measurement results comply with the limit of EN 50663:2017 and EN 62479:2010.

Issued by SHENZHEN TIMEWAY TESTING LABORATORIES.

Approved By

Andy Xing

Engineering

Name/title

Reviewed By

Terry Tang

EMC Manager

Name/title

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