

RF Exposure Evaluation Report

Product Name : WIRELESS GAMING KEYBOARD

Model No. : XA09

FCC ID : XW3DKKBXA09

Applicant : Dongguan Siliten Electronics CO.,LTD

Address : Sijia Yewu Industrial estate, Shijie Town, Dongguan, China

Date of Receipt : Nov. 20, 2021

Date of Declaration : Dec. 24, 2021

Report No. : 21B0789R-RFUSMPEV03-A

Report Version : V1.0



The test results relate only to the samples tested.

The test results shown in the test report are traceable to the national/international standard through the calibration report of the equipment and evaluated measurement uncertainty herein.

This report must not be used to claim product endorsement by TAF or any agency of the government.

The test report shall not be reproduced without the written approval of DEKRA Testing and Certification Co., Ltd.

Measurement uncertainties evaluated for each testing system and associated connections are given here to provide the system information for reference. Compliance determinations do not take into account measurement uncertainties for each testing system, but are based on the results of the compliance measurement.

Issued Date: Dec. 24, 2021

Report No.: 21B0789R-RFUSMPEV03-A



| | | |
|---------------------|--|---|
| Product Name | WIRELESS GAMING KEYBOARD | |
| Applicant | Dongguan Siliten Electronics CO.,LTD | |
| Address | Sijia Yewu Industrial estate, Shijie Town, Dongguan, China | |
| Manufacturer | Dongguan Siliten Electronics CO.,LTD | |
| Model No. | XA09 | |
| FCC ID. | XW3DKKBXA09 | |
| Trade Name | ASUS | |
| Applicable Standard | KDB 447498 D01 v06 | <input type="checkbox"/> Minimum test separation distance ≥ 20 cm <input checked="" type="checkbox"/> For low power devices |
| Test Result | Complied | |

Documented By : Genie Chang
 (Senior Project Specialist / Genie Chang)

Tested By : Alan Chen
 (Senior Engineer / Alan Chen)

Approved By : Tim Sung
 (Manager / Tim Sung)

Revision History

| Report No. | Version | Description | Issued Date |
|-----------------------|---------|--------------------------|---------------|
| 21B0789R-RFUSMPEV03-A | V1.0 | Initial issue of report. | Dec. 24, 2021 |

1. GENERAL INFORMATION

1.1. EUT Description

| | |
|--------------------|--|
| Product Name | WIRELESS GAMING KEYBOARD |
| Trade Name | ASUS |
| Model No. | XA09 |
| FCC ID. | XW3DKKBXA09 |
| Frequency Range | 2.4G wireless: 2403-2480MHz BLE: 2402 – 2480MHz |
| Channel Number | 2.4G wireless: 78 BLE: 40CH |
| Type of Modulation | 2.4G wireless: Pi/4 DQPSK BLE: GFSK |
| Antenna Type | FPC Antenna |
| Antenna Gain | Refer to the table “Antenna List” |

Antenna List

| No. | Manufacturer | Part No. | Antenna Type | Peak Gain |
|-----|--------------|--------------|--------------|--------------------|
| 1 | Baishun | BS1C70F3D38A | FPC Antenna | 4.12dBi for 2.4GHz |

1.2. Test Facility

Site Description : Accredited by TAF
Accredited Number: 3023

Test Laboratory : DEKRA Testing and Certification Co., Ltd
Address : No. 5-22, Ruishukeng Linkou District, New Taipei City,
24451, Taiwan

Performed Location : No. 26, Huaya 1st Rd., Guishan Dist., Taoyuan City
333411, Taiwan, R.O.C.

Phone number : +886-3-275-7255
Fax number : +866-3-327-8031
Email address : info.tw@dekra.com
Website : <http://www.dekra.com.tw>

2. RF Exposure Evaluation

2.1. Standard Applicable

According to 1.1307 (b)(1), systems operating under the provisions of this section shall be operated in a manner that ensure that the public is not exposed to radio frequency energy level in excess of the Commission's guideline.

2.2. Measurement Result:

According to KDB Publication 447498 D01, section 4.3.1, per the calculations of item 1 ($\text{Power(mW)}/\text{separation (mm)} \cdot \sqrt{f(\text{GHz})} \leq 3.0$), SAR is required as shown in the table below where calculated values are greater than 3.0:

Operation frequency = 2450MHz and antenna separation distance = 5mm

Body SAR Test Exclusion Threshold = 10mW

BLE

| Frequency Band (MHz) | Maximum peak output power Peak Gain: 4.12dBi | | | SAR Test Exclusion Threshold | Calculated Threshold Value (≤ 3.0 SAR is not required) |
|----------------------|---|------------|-----------|------------------------------|--|
| | conducted (dBm) | EIRP (dBm) | EIRP (mW) | (mW) | |
| 2402 | 3.97 | 8.09 | 6.44 | 10 | 1.997 |

2.4G Wireless:

| Frequency Band | Maximum peak EIRP power | | SAR Test Exclusion Threshold | Calculated Threshold Value (≤ 3 SAR is not required) |
|----------------|-------------------------|------|------------------------------|--|
| | (dBuV/3m) | (mW) | (mW) | |
| 2403 - 2480 | 88.78 | 0.22 | 10 | 0.068 |

Note1: The SAR/MPE measurement is not necessary.

Note2: The maximum peak output power is refer to report No.: 21B0789R-RFUSBLEV01-A, 21B0789R-RFUSOTHV06-A from the DEKRA.