TCT 通测检测 TESTING CENTRE TECHNOLOGY

# TEST REPORT

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|---|---|---|
| **FCC ID. ..... :** | 2BAHU2023002 | |
| **Test Report No..... :** | TCT230619E912 | |
| **Date of issue..... :** | Jun. 29, 2023 | |
| **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..... :** | DIALN PRODUCTS INC. | |
| **Address..... :** | 8312 Page Ave, Saint Louis, Missouri 63130, United States | |
| **Manufacturer's name ... :** | SHENZHEN JREN TECHNOLOGY CO., LTD | |
| **Address..... :** | B Area, 9/F, A4 Building, Tianrui Industrial Park, No. 35, Fuyuan 1st Road, Zhancheng, Fuhai, Baoan District, Shenzhen, China. | |
| **Standard(s) ..... :** | KDB 447498 D01 General RF Exposure Guidance v06 | |
| **Product Name..... :** | LTE Tablet | |
| **Trade Mark ..... :** | DIALN | |
| **Model/Type reference..... :** | X10G, X10M | |
| **Rating(s)..... :** | Refer to EUT description of page 3 | |
| **Date of receipt of test item ..... :** | Jun. 19, 2023 | |
| **Date (s) of performance of test..... :** | Jun. 19, 2023 - Jun. 29, 2023 | |
| **Tested by (+signature) ... :** | Rleo LIU | |
| **Check by (+signature).... :** | Beryl ZHAO | |
| **Approved by (+signature):** | Tomsin | |

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# Table of Contents

1. General Product Information ..... 3
1.1. EUT description ..... 3
1.2. Model(s) list ..... 3
2. General Information ..... 4
2.1. Test environment and mode ..... 4
2.2. Description of Support Units ..... 4
3. Facilities and Accreditations ..... 5
3.1. Facilities ..... 5
3.2. Location ..... 5
4. Test Results and Measurement Data ..... 6


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# 1. General Product Information

## 1.1. EUT description

| | |
|---|---|
| **Product Name.....:** | LTE Tablet |
| **Model/Type reference.....:** | X10G |
| **Sample Number.....:** | TCT230619E901-0101 |
| **Operation Frequency.....:** | 2402MHz~2480MHz |
| **Modulation Type.....:** | For BT: GFSK, π/4-DQPSK, 8DPSK<br>For BLE: GFSK |
| **Antenna Type.....:** | PIFA Antenna |
| **Antenna Gain.....:** | 0.23dBi |
| **Rating(s).....:** | Adapter Information:<br>MODEL: BOS050200-01A<br>INPUT: AC 100-240V, 50/60Hz, 0.45A<br>OUTPUT: DC 5V, 2000mA<br>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 | X10G | ☒ |
| Other models | X10M | ☐ |
| Note: X10G is tested model, other models are derivative models. The models are identical in circuit and PCB layout, only different on the model names. So the test data of X10G 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 |

Note: This test report was based on FCC ID: 2BAHU2023002; Change product model No. and shell material of EUT.

## 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 |
|---|---|---|---|---|
| / | / | / | / | / |

***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)] · [√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

- BDR+EDR:

| 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 | 6.49 | 5.5±1 | 6.5 | 4.47 | 5 | 1.41 | 3.0 |

- BLE(1M):

| 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 | 2.480 | 3.98 | 3±1 | 4 | 2.51 | 5 | 0.79 | 3.0 |

- BLE(2M):

| 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 | 2.480 | 3.99 | 3±1 | 4 | 2.51 | 5 | 0.79 | 3.0 |

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

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



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