TCT 通测检测 TESTING CENTRE TECHNOLOGY

# TEST REPORT

| | | |
|---|---|---|
| **FCC ID. ..... :** | AUSCR6034 | |
| **Test Report No..... :** | TCT220406E054 | |
| **Date of issue..... :** | May 05, 2022 | |
| **Testing laboratory ..... :** | SHENZHEN TONGCE TESTING LAB | |
| **Testing location/ address:** | TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China | |
| **Applicant's name..... :** | Modern Marketing Concepts, Inc. | |
| **Address..... :** | 1220 E Oak, St. Louisville, KY 40204 United States | |
| **Manufacturer's name ... :** | Timsen Development Limited | |
| **Address..... :** | 5F, 447# Tianhebei Road, Guangzhou, China | |
| **Standard(s) ..... :** | FCC CFR Title 47 Part 1.1307 | |
| **Product Name..... :** | Switch II Turntable | |
| **Trade Mark ..... :** | Crosley | |
| **Model/Type reference..... :** | CR6034B-NA, CR6034XX-XXXX (XX-XXXX can be replaced by letter from "A" to "Z", number from "0" to "9" or blank) | |
| **Rating(s)..... :** | Adapter Information:<br>Model: JQS0361A-U120250<br>Input: AC 100-240V, 50/60Hz, 0.85A<br>Output: DC 12.0V, 2.5A | |
| **Date of receipt of test item ..... :** | Apr. 06, 2022 | |
| **Date (s) of performance of test..... :** | Apr. 06, 2022 - May 05, 2022 | |
| **Tested by (+signature) ... :** | Onnado YE | |
| **Check by (+signature).... :** | Beryl ZHAO | |
| **Approved by (+signature):** | Tomsin | |

**General disclaimer:**

This report shall not be reproduced except in full, without the written approval of SHENZHEN TONGCE TESTING LAB. This document may be altered or revised by SHENZHEN TONGCE TESTING LAB personnel only, and shall be noted in the revision section of the document. The test results in the report only apply to the tested sample.

# Table of Contents




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.....:** | Switch II Turntable |
| **Model/Type reference.....:** | CR6034B-NA |
| **Sample Number.....:** | TCT220406E019-0101 |
| **Operation Frequency.....:** | 2402MHz~2480MHz |
| **Modulation Type.....:** | For BT: GFSK, π/4-DQPSK, 8DPSK<br>For BLE: GFSK |
| **Antenna Type.....:** | PCB Antenna |
| **Antenna Gain.....:** | -0.58dBi |
| **Rating(s).....:** | Adapter Information:<br>Model: JQS0361A-U120250<br>Input: AC 100-240V, 50/60Hz, 0.85A<br>Output: DC 12.0V, 2.5A |

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 | CR6034B-NA | ☒ |
| Other models | CR6034XX-XXXX (XX-XXXX can be replaced by letter from "A" to "Z", number from "0" to "9" or blank) | ☐ |

Note: CR6034B-NA is tested model, other models are derivative models. The models are identical in circuit and PCB layout, different on the model names and color. So the test data of CR6034B-NA can represent the remaining models.



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

# 2. General Information

## 2.1. Test environment and mode

| Item | Normal condition |
|---|---|
| **Temperature** | +25ºC |
| **Voltage** | AC 120V/60Hz |
| **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 |
|---|---|---|---|---|
| / | / | / | / | / |

***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.*



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

# 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: TCT Testing Industrial Park Fuqiao 5th Industrial Zone, Fuhai Street, Bao'an District Shenzhen, Guangdong, 518103, People's Republic of China

TEL: +86-755-27673339



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

# 4. Test Results and Measurement Data

According to §1.1307(b), 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.

Remark: 1) For BT: The maximum output power for antenna is 2.61dBm (1.82mW) at 2402MHz, -0.58dBi antenna gain (with 0.87 numeric antenna gain.)
For BLE: The maximum output power for antenna is -0.30dBm (0.93mW) at 2402MHz, -0.58dBi antenna gain(with 0.87 numeric antenna gain.)
2) For mobile or fixed location transmitters, no SAR consideration applied. The minimum separation generally be used is at least 20cm, even if the calculation indicate that the MPE distance would be lesser.

**Calculation**

Given $E = \frac{\sqrt{30 \times P \times G}}{d}$ & $S = \frac{E^2}{3770}$

*Where* $E$ = *Field Strength in Volts / meter*
$P$ = *Power in Watts*
$G$=*Numeric antenna gain*
$d$=*Distance in meters*
$S$=*Power Density in milliwatts / square centimeter*

For BT: Maximum Permissible Exposure
output power= 1.82mW
Numeric Antenna gain= 0.87
Substituting the MPE safe distance using d=20cm into above equation.
Yields:
*S=0.000199*P*G*
*Where P=Power in mW*
*G=Numeric antenna gain*
*S=Power density in mW/cm$^2$*
*Power density= 0.000315mW/cm$^2$*

For BLE: Maximum Permissible Exposure
output power= 0.93mW
Numeric Antenna gain= 0.87
Substituting the MPE safe distance using d=20cm into above equation.
Yields:
*S=0.000199*P*G*
*Where P=Power in mW*
*G=Numeric antenna gain*
*S=Power density in mW/cm$^2$*
*Power density= 0.000161mW/cm$^2$*

*(For mobile or fixed location transmitters, the maximum power density is 1.0 mW/cm$^2$ even if the calculation indicates that the power density would be larger.)*

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



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