

Report No.: SZEM200600501303 Page: 1 of 6

SAR Evaluation Report

| Application No.: | SZEM2006005013CR | | | |
|-----------------------------|---|--|--|--|
| Applicant: | Shenzhen Jimi IOT Co., Ltd | | | |
| Address of Applicant: | Floor 4th, Building C, Gaoxinqi Industrial Park, Liuxian 1st Road, District 67 | | | |
| | Bao'an, ShenZhen, China | | | |
| Manufacturer: | Shenzhen Jimi IOT Co., Ltd | | | |
| Address of Manufacturer: | Floor 4th, Building C, Gaoxinqi Industrial Park, Liuxian 1st Road, District 67, | | | |
| | Bao'an, ShenZhen, China | | | |
| Factory: | Huizhou Jimi Zhizao Technology Co. Ltd | | | |
| Address of Factory: | No.12 Songyang Road, ZhongKai Development Zone, Huizhou Guangdong | | | |
| Equipment Under Test (EUT): | | | | |
| EUT Name: | ASSET TERMINALL | | | |
| Model No.: | JM-LL02, LL02 🔺 | | | |
| * | Please refer to section 4.1 of this report which indicates which model was | | | |
| | actually tested and which were electrically identical. | | | |
| Trade Mark: | JIMI | | | |
| FCC ID: | 2AMLF-JM-LL02 | | | |
| Standards: | 47 CFR Part 1.1307 | | | |
| | 47 CFR Part 2.1093 | | | |
| | KDB447498D01 General RF Exposure Guidance v06 | | | |
| Date of Receipt: | 2020-06-11 | | | |
| Date of Test: | 2020-06-14 to 2020-06-18 | | | |
| Date of Issue: | 2020-06-19 | | | |
| Test Result : | Pass* | | | |

* In the configuration tested, the EUT complied with the standards specified above.

Keny. Ku

Keny Xu EMC Laboratory Manager



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Report No.: SZEM200600501303 Page: 2 of 6

Version 2

| | Revision Record | | | | |
|---------|-----------------|------------|----------|----------|--|
| Version | Chapter | Date | Modifier | Remark | |
| 01 | | 2020-06-19 | | Original | |
| | | | | | |
| | | | | | |

| Authorized for issue by: | | |
|--------------------------|------------------------------|--|
| | fore A Bow | |
| | Powell Bao /Project Engineer | |
| | Evic Fu | |
| | Eric Fu /Reviewer | |



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Report No.: SZEM200600501303 Page: 3 of 6

3 Contents

Page

| 1 | COV | ER PAGE | .1 | | | |
|---|-------|---|-----|--|--|--|
| 2 | VER | SION | . 2 | | | |
| 3 | CON | CONTENTS | | | | |
| 4 | GEN | ERAL INFORMATION | .4 | | | |
| | 4.1 | GENERAL DESCRIPTION OF EUT | . 4 | | | |
| | 4.2 | DESCRIPTION OF SUPPORT UNITS | | | | |
| | 4.3 | TEST LOCATION | . 5 | | | |
| | 4.4 | TEST FACILITY | . 5 | | | |
| | 4.5 | DEVIATION FROM STANDARDS | | | | |
| | 4.6 | ABNORMALITIES FROM STANDARD CONDITIONS | | | | |
| | 4.7 | OTHER INFORMATION REQUESTED BY THE CUSTOMER | . 5 | | | |
| 5 | _ | EVALUATION | - | | | |
| | 5.1 | RF Exposure Compliance Requirement | . 6 | | | |
| | 5.1.1 | Standard Requirement | . 6 | | | |
| | 5.1.2 | | | | | |
| | 5.1.3 | EUT RF Exposure | . 6 | | | |



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Report No.: SZEM200600501303 Page: 4 of 6

4 General Information

4.1 General Description of EUT

| Power Supply: | Powered by DC3.7V Li-Polymer, 6000 mAh and can be chargered with adapter via dedicated USB cable |
|----------------------|--|
| Cable: | Dedicated USB cable(Unshielded, 64cm) |
| Bluetooth Version: | V4.2 LE |
| Operation Frequency: | 2402MHz to 2480MHz |
| Modulation Type: | GFSK |
| Number of Channels: | 40 |
| Channel Spacing: | 2MHz |
| Antenna Type: | Integral Antenna |
| Antenna Gain: | -1.17dBi |

Remark:

Model No.: JM-LL02, LL02

Only the model JM-LL02 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on name.

4.2 Description of Support Units

| Description | Manufacturer | Model No. | Serial No. |
|------------------------------------|---|-----------------|------------|
| AC Adapter (Provided by client) | Huajin Input: AC100-240V, 50/60Hz,0.3A Output: DC5V, 2000mA | HJ-0502000W2-US | N/A |



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Report No.: SZEM200600501303 Page: 5 of 6

4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

No. 1 Workshop, M-10, Middle section, Science & Technology Park, Shenzhen, Guangdong, China 518057

Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594 No tests were sub-contracted.

4.4 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC – Designation Number: CN1178

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1178. Test Firm Registration Number: 406779.

Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.5 Deviation from Standards

None.

4.6 Abnormalities from Standard Conditions

None.

4.7 Other Information Requested by the Customer

None.



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Report No.: SZEM200600501303 Page: 6 of 6

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v06

4.3.1. Standalone SAR test exclusion considerations

Unless specifically required by the published RF exposure KDB procedures, standalone 1-g head or body and 10-g extremity SAR evaluation for general population exposure conditions, by measurement or numerical simulation, is not required when the corresponding SAR Exclusion Threshold condition, listed below, is satisfied.

5.1.2 Limits

The 1-g and 10-g SAR test exclusion thresholds for 100 MHz to 6 GHz at test separation distances \leq 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] \cdot [$\sqrt{f}(GHz)$] ≤ 3.0 for 1-g SAR and ≤ 7.5 for 10-g extremity SAR, where

f(GHz) is the RF channel transmit frequency in GHz

Power and distance are rounded to the nearest mW and mm before calculation¹⁷

The result is rounded to one decimal place for comparison

The test exclusions are applicable only when the minimum test separation distance is \leq 50 mm and for transmission frequencies between 100 MHz and 6 GHz. When the minimum test separation distance is < 5 mm, a distance of 5 mm is applied to determine SAR test exclusion

5.1.3 EUT RF Exposure

Note: The BLE and LTE & WCDMA Module can't synchronous transmission at the same time. BLE:

The Max. power (including tune-up tolerance) is -3.9 dBm on the highest channel 2.402 GHz (*) -3.90 dBm logarithmic terms convert to numeric result is nearly 0.41 mW

According to the formula. calculate the test exclusion thresholds:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] · [vf(GHz)]

| General RF Exposure = (0.41 mW / 5 mm) x $\sqrt{2.402}$ GHz = 0.13 | (1) |
|--|-----|
| SAR requirement: | |
| <i>S</i> = <i>3</i> . <i>0</i> | (2) |
| (1) < (2) | |

So the SAR report is not required.

(*) Max. power refer to Report No.:SZEM200600501302

- End of the Report -



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