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Report No.: SZEM150200072602

Page: 1 of 7

SAR Evaluation Report

Application No: SZEM1502000726CR

Applicant: Incipio Technologies, Inc.

Manufacturer/Factory: SEENDA TECHNOLOGY CO.,LTD

Product Name: Incipio Universal Bluetooth Keyboard for 10 inch Tablet

Model No.(EUT): BTKYB-006

Trade mark: Incipio

FCC ID: 2AAWX-KB006

Standards: 47 CFR Part 1.1307 (2014)

47 CFR Part 2.1093 (2014)

KDB447498D01 General RF Exposure Guidance v05r02

Date of Receipt: 2015-02-10

Date of Test: 2015-02-15 to 2015-04-03

Date of Issue: 2015-04-22

Test Result : PASS*

Authorized Signature:



Jack Zhang EMC Laboratory Manager

The manufacturer should ensure that all products in series production are in conformity with the product sample detailed in this report. If the product in this report is used in any configuration other than that detailed in the report, the manufacturer must ensure the new system complies with all relevant standards. Any mention of SGS International Electrical Approvals or testing done by SGS International Electrical Approvals in connection with, distribution or use of the product described in this report must be approved by SGS International Electrical Approvals in writing.

The report must not be used by the client to claim product certification, approval, or endorsement by NVLAP, NIST, or any agency of the federal government. All test results in this report can be traceable to National or International Standards.

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



Report No.: SZEM150200072602

Page: 2 of 7

2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
00		2015-04-08		Original

Authorized for issue by:		
Tested By	Jihn Hong	2015-04-03
	(Jim Huang) /Project Engineer	Date
Prepared By	Cintin Lu	2015-04-08
	(Linlin Lv) /Clerk	Date
Checked By	Eric Fu	2015-04-09
	(Eric Fu) /Reviewer	Date

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Report No.: SZEM150200072602

Page: 3 of 7

3 Contents

		Page
1	COVER PAGE	1
2	VERSION	2
3	CONTENTS	3
4	GENERAL INFORMATION	4
	4.1 CLIENT INFORMATION	4
	4.2 GENERAL DESCRIPTION OF EUT	4
	4.3 TEST LOCATION	
	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		
	5.1 RF Exposure Compliance Requirement	6
	5.1.1 Standard Requirement	6
	5.1.2 Limits	6
	5.1.3 EUT RF Exposure	6
6	PHOTOGRAPHS - EUT CONSTRUCTIONAL DETAILS	7



Report No.: SZEM150200072602

Page: 4 of 7

4 General Information

4.1 Client Information

Applicant:	Incipio Technologies, Inc.
Address of Applicant:	6001 Oak Canyon, Irvine, CA 92618, USA
Manufacturer:	SEENDA TECHNOLOGY CO.,LTD
Address of Manufacturer:	5F, Xiang Nan Building, Minzhi Avenue, Longhua, Baoan, Shenzhen,
	China
Factory:	SEENDA TECHNOLOGY CO.,LTD
Address of Factory:	5F, Xiang Nan Building, Minzhi Avenue, Longhua, Baoan, Shenzhen,
	China

4.2 General Description of EUT

Product Name:	Incipio Universal Bluetooth Keyboard for 10 inch Tablet		
Model No.:	BTKYB-006		
Trade mark:	Incipio		
Operation Frequency:	2402MHz~2480MHz		
Bluetooth Version:	3.0 with EDR		
Modulation Technique:	Frequency Hopping Spread Spectrum(FHSS)		
Modulation Type:	GFSK, π/4DQPSK, 8DPSK		
Number of Channel:	79		
Hopping Channel Type:	Adaptive Frequency Hopping systems		
Sample Type:	Portable production		
Product Description:	Incipio Universal Bluetooth Keyboard for 10 inch Tablet		
Test Power Grade:	TX GC 62 (manufacturer declared)		
Test software of EUT:	Airoha.AB1100FamilyLabTestTool (manufacturer declared)		
Antenna Type:	Integral		
Antenna Gain:	0.944dBi		
	DC 5V powered by USB		
Power Supply:	Battery: DC 3.7V 250mAh (Li-ion Rechargeable Battery)		
Test Voltage:	AC 120V 60Hz		
USB Cable:	60cm		

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Report No.: SZEM150200072602

Page: 5 of 7

4.3 Test Location

All tests were performed at:

SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch E&E Lab 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:

• CNAS (No. CNAS L2929)

CNAS has accredited SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch EMC Lab to ISO/IEC 17025:2005 General Requirements for the Competence of Testing and Calibration Laboratories (CNAS-CL01 Accreditation Criteria for the Competence of Testing and Calibration Laboratories) for the competence in the field of testing.

VCCI

The 10m Semi-anechoic chamber and Shielded Room (7.5m x 4.0m x 3.0m) of SGS-CSTC Standards Technical Services Co., Ltd. have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-823, R-4188, T-1153 and C-2383 respectively.

FCC – Registration No.: 556682

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen 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.: 556682.

Industry Canada (IC)

Two 3m Semi-anechoic chambers of SGS-CSTC Standards Technical Services Co., Ltd. have been registered by Certification and Engineering Bureau of Industry Canada for radio equipment testing with Registration No.: 4620C-1 & 4620C-2.

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.: SZEM150200072602

Page: 6 of 7

5 SAR Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Standard Requirement

According to KDB447498D01 General RF Exposure Guidance v05r02

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 ≤ 50 mm are determined by:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}] \le 3.0$ 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 calculation 17

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

The Max Conducted Peak Output Power is -1.08dBm in lowest channel(2.402GHz);

The best case gain of the antenna is -0.66dBi.

EIRP = -1.08dBm + 0.944dBi = -0.136dBm

-3.86dBm logarithmic terms convert to numeric result is nearly 0.9692mW

According to the formula. calculate the EIRP test result:

[(max. power of channel, including tune-up tolerance, mW)/(min. test separation distance, mm)] $\cdot [\sqrt{f(GHz)}]$

General RF Exposure = $(0.9692 \text{mW} / 5 \text{ mm}) \times \sqrt{2.402 \text{GHz}} = 0.3004 \text{ }\bigcirc$

SAR requirement:

S = 3.0

2;

(1) < (2).

So the SAR report is not required.



Report No.: SZEM150200072602

Page: 7 of 7

6 Photographs - EUT Constructional Details

The detailed internal and external Photo see:
Appendix A - Photographs of EUT Constructional Details for SZEM1502000726CR