

RF EXPOSURE REPORT



Report No.: 16070893-FCC-H2

Supersede Report No.: N/A

Applicant	Bean Information Technology Co., Ltd	
Product Name	Core+ 10.1,Core+11.6	
Model No.	W1102	
Serial No.	W1001	
Test Standard	FCC 2.1093:2015	
Test Date	August 05 to September 01, 2016	
Issue Date	September 02, 2016	
Test Result	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail	
Equipment complied with the specification <input checked="" type="checkbox"/>		
Equipment did not comply with the specification <input type="checkbox"/>		
Loren Luo	David Huang	
Loren Luo Test Engineer	David Huang Checked By	
This test report may be reproduced in full only Test result presented in this test report is applicable to the tested sample only		

Issued by:

SIEMIC (SHENZHEN-CHINA) LABORATORIES

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Laboratories Introduction

SIEMIC, headquartered in the heart of Silicon Valley, with superior facilities in US and Asia, is one of the leading independent testing and certification facilities providing customers with one-stop shop services for Compliance Testing and Global Certifications.



In addition to testing and certification, SIEMIC provides initial design reviews and compliance management throughout a project. Our extensive experience with China, Asia Pacific, North America, European, and International compliance requirements, assures the fastest, most cost effective way to attain regulatory compliance for the global markets.

Accreditations for Conformity Assessment

Country/Region	Scope
USA	EMC, RF/Wireless, SAR, Telecom
Canada	EMC, RF/Wireless, SAR, Telecom
Taiwan	EMC, RF, Telecom, SAR, Safety
Hong Kong	RF/Wireless, SAR, Telecom
Australia	EMC, RF, Telecom, SAR, Safety
Korea	EMI, EMS, RF, SAR, Telecom, Safety
Japan	EMI, RF/Wireless, SAR, Telecom
Singapore	EMC, RF, SAR, Telecom
Europe	EMC, RF, SAR, Telecom, Safety

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1. Report Revision History

Report No.	Report Version	Description	Issue Date
16070893-FCC-H2	NONE	Original	September 02, 2016

2. Customer information

Applicant Name	Bean Information Technology Co., Ltd
Applicant Add	No. 810 of Software Building, Keji RD 1St., Science and Technology Park, Nanshan District, Shenzhen City, Guangdong Province, China
Manufacturer	Dongguan WeiHeng Digital Technology Co.,Ltd.
Manufacturer Add	Build 3, Fengquan Industry Area YaoShan,XieGang Town DongGuan

3. Test site information

Lab performing tests	SIEMIC (Shenzhen-China) LABORATORIES
Lab Address	Zone A, Floor 1, Building 2 Wan Ye Long Technology Park South Side of Zhoushi Road, Bao'an District, Shenzhen, Guangdong China 518108
FCC Test Site No.	718246
IC Test Site No.	4842E-1
Test Software	Radiated Emission Program-To Shenzhen v2.0

4. Equipment under Test (EUT) Information

Description of EUT: Core+ 10.1,Core+11.6

Main Model: W1102

Serial Model: W1001

Date EUT received: August 04, 2016

Test Date(s): August 05 to September 01, 2016

Antenna Gain: Bluetooth/ WIFI: 4.36dBi

Antenna Type: PIFA antenna

Type of Modulation: 802.11b/g/n: DSSS, OFDM
 Bluetooth: GFSK, π /4DQPSK, 8DPSK

RF Operating Frequency (ies): WIFI: 802.11b/g/n(20M): 2412-2472 MHz
 Bluetooth: 2402-2480 MHz

Number of Channels: WIFI :802.11b/g/n(20M): 13CH
 Bluetooth: 79CH

Port: Power Port, Earphone Port, USB Port, USB-C Port, HDMI Port,
 Docking Port, MIC Port

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Adapter 1:

Model: PS12F050K2000UD

Input: AC100-240V~50/60Hz,0.35A

Output: DC 5.0V,2000mA

Adapter 2:

Input Power:

Model: JK050200-S04USA

Input: AC100-240V~50/60Hz,0.5A

Output: DC 5.0V,2000mA

Battery:

Spec: 3.7V,3500mAh(31.45Wh)

Trade Name : BIT

FCC ID: 2AHWT-W1102

5. FCC §2.1093 - Radiofrequency radiation exposure evaluation: portable devices.

5.1 RF Exposure

Standard Requirement:

According to §15.247 (i) and §1.1307(b)(1), 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 guidelines.

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:

$[(\text{max. power of channel, including tune-up tolerance, mW}) / (\text{min. test separation distance, mm})] \cdot [\sqrt{f_{(\text{GHz})}}] \leq 3.0 \text{ for 1-g SAR and } \leq 7.5 \text{ for 10-g extremity SAR,}^{16}$ where

- $f_{(\text{GHz})}$ 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 ≤ 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.

Routine SAR evaluation refers to that specifically required by § 2.1093, using measurements or computer simulation. When routine SAR evaluation is not required, portable transmitters with output power greater than the applicable low threshold require SAR evaluation to qualify for TCB approval.

$$\text{result} = P\sqrt{F} / D$$

P= Maximum turn-up power in mW

F= Channel frequency in GHz

D= Minimum test separation distance in mm

5.2 Test Result

Bluetooth Mode:

Modulation	CH	Frequency (MHz)	Conducted Power (dBm)	Tune Up Power (dBm)	Max Tune Up Power (dBm)	Max Tune Up Power (mW)	Result	Limit
GFSK	Low	2402	3.446	3.5±1	4.5	2.818	0.87	3
	Mid	2441	3.459	3.5±	4.5	2.818	0.88	3
	High	2480	4.032	3.5±	4.5	2.818	0.89	3
$\pi/4$ DQPSK	Low	2402	3.456	3.5±	4.5	2.818	0.87	3
	Mid	2441	3.459	3.5±	4.5	2.818	0.88	3
	High	2480	4.116	3.5±	4.5	2.818	0.89	3
8-DPSK	Low	2402	7.783	7.5±1	8.5	7.079	2.19	3
	Mid	2441	7.709	7.5±1	8.5	7.079	2.21	3
	High	2480	7.923	7.5±1	8.5	7.079	2.23	3

Result: Compliance

No SAR measurement is required.