Shanghai Sand Information Technology System Co., Ltd

EFT-POS Terminal

Main Model: IPS420 Serial Model: N/A

September 12, 2013
Report No.: 13050018-FCC-E-V1
(This report supersedes NONE)



Modifications made to the product : None

This Test Report is Issued Under the Authority of:				
Deon Dai	Alex. Lin			
Deon Dai Compliance Engineer	Alex Liu Technical Manager			

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Test result presented in this test report is applicable to the representative sample only.

EMC Test Report





Laboratory Introduction

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Accreditations for Conformity Assessment

Country/Region	Accreditation Body	Scope
USA	FCC, A2LA	EMC, RF/Wireless, Telecom
Canada	IC, A2LA, NIST	EMC, RF/Wireless, Telecom
Taiwan	BSMI , NCC , NIST	EMC, RF, Telecom, Safety
Hong Kong	OFTA , NIST	RF/Wireless ,Telecom
Australia	NATA, NIST	EMC, RF, Telecom, Safety
Korea	KCC/RRA, NIST	EMI, EMS, RF, Telecom, Safety
Japan	VCCI, JATE, TELEC, RFT	EMI, RF/Wireless, Telecom
Mexico	NOM, COFETEL, Caniety	Safety, EMC, RF/Wireless, Telecom
Europe	A2LA, NIST	EMC, RF, Telecom, Safety

Accreditations for Product Certifications

Country/Region	Accreditation Body	Scope
USA	FCC TCB, NIST	EMC, RF, Telecom
Canada	IC FCB , NIST	EMC, RF, Telecom
Singapore	iDA, NIST	EMC, RF, Telecom
EU	NB	EMC & R&TTE Directive
Japan	MIC, (RCB 208)	RF, Telecom
Hong Kong	OFTA (US002)	RF, Telecom



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Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 4 of 37 www.siemic.com.cn

CONTENTS

1	EXECUTIVE SUMMARY & EUT INFORMATION	5
2	TECHNICAL DETAILS	6
3	MODIFICATION	7
4	TEST SUMMARY	8
5	MEASUREMENTS, EXAMINATION AND DERIVED RESULTS	9
ANI	NEX A. TEST INSTRUMENT & METHOD	14
ANI	NEX B. EUT AND TEST SETUP PHOTOGRAPHS	18
ANI	NEX C. TEST SETUP AND SUPPORTING EQUIPMENT	32
ANI	NEX D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST	36
ANI	NEX E. DECLARATION OF SIMILARITY	37



EXECUTIVE SUMMARY & EUT INFORMATION

5 of 37

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The purpose of this test programme was to demonstrate compliance of the Shanghai Sand Information Technology System Co., Ltd. The EFT-POS Terminal and model: IPS420 against the current Stipulated Standards. The EFT-POS Terminal has demonstrated compliance with the FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009.

EUT Information

EUT

: EFT-POS Terminal

Description Main Model

: IPS420

Serial Model

: N/A

GPRS850: -6 dBi

Antenna Gain

GPRS1900: -2 dBi

RFID: 2 dBi

Adapter:

Model: ADP046-094B

Input: AC 100V-240V, 1.0A 50/60 Hz

Rated

Output: DC 9V 4A

Li-Polymer Battery:

Model: IPS420

Voltage: 7.4V 2000mAh 14.8Wh

Classification

Class B Emission Product Per

Per Stipulated **Test Standard**

FCC Part 15 Subpart B Class B: 2012



Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 6 of 37 www.siemic.com.cn

	2 TECHNICAL DETAILS
Purpose	Compliance testing of EFT-POS Terminal with stipulated standard
Applicant / Client	Shanghai Sand Information Technology System Co., Ltd Building 22,Germs Park,NO. 487 Tianlin Road, Shanghai China
Manufacturer	Shanghai Sand Information Technology System Co., Ltd Building 22,Germs Park,NO. 487 Tianlin Road, Shanghai China
Laboratory performing the tests	SIEMIC (Nanjing-China) Laboratories NO.2-1,Longcang Dadao, Yuhua Economic Development Zone, Nanjing, China Tel:+86(25)86730128/86730129 Fax:+86(25)86730127 Email: China@siemic.com.cn
Test report reference number	13050018-FCC-E-V1
Date EUT received	July 19, 2013
Standard applied	FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009
Dates of test	August 26, 2013
No of Units	#1
Equipment Category	Class B Emission Product
Trade Name	SAND
Highest Operated Frequency (ies)	GPRS850 TX : 824.2 ~ 848.8 MHz; RX : 869.2 ~ 893.8 MHz GPRS1900 TX : 1850.2 ~ 1909.8 MHz; RX : 1930.2 ~ 1989.8 MHz RFID: 13.56MHz
Number of Channels	299CH (GPRS1900) 124CH (GPRS850) RFID: 1CH (ASK)
Modulation	GPRS: GMSK RFID: ASK
GPRS Multi-slot class	8/10
Port	USB Port, Power Port, COM Port, T-FLASH Port
FCC ID	XLHIPS420-1305



Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 7 of 37 www.siemic.com.cn

3 MODIFICATION

NONE

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 8 of 37 www.siemic.com.cn

4 TEST SUMMARY

The product was tested in accordance with the following specifications. All testing has been performed according to below product classification:

Class B Emission Product

Test Results Summary

Emissions				
Test Standard Description Product Class Pass / Fa				
FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009	AC Line Conducted Emissions	See Above	Pass	
FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009	Radiated Emissions	See Above	Pass	

All measurement uncertainty is not taken into consideration for all presented test result.

5 <u>MEASUREMENTS, EXAMINATION AND DERIVED</u> RESULTS

5.1 AC Line Conducted Emissions Test Result

Note:

- 1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR and Average detectors, are reported. All other emissions were relatively insignificant.
- 2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.
- 3. Conducted Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 9kHz – 30MHz (Average & Quasi-peak) is±3.86dB.

4. Environmental Conditions Temperature 25°C Relative Humidity 50%

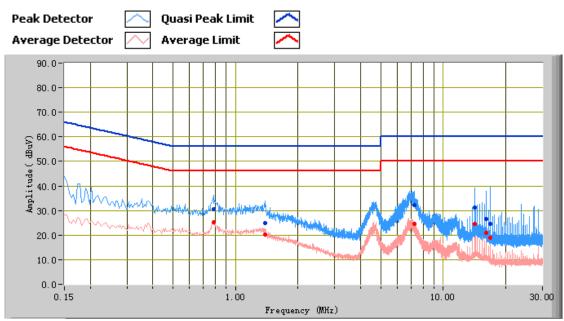
Atmospheric Pressure 1009 mbar

5. Test date : August 26, 2013 Tested By : Chris Bi

Test Result: Pass

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 10 of 37 www.siemic.com.cn

Test Mode: Charging and Printing Mode (Worse Case)



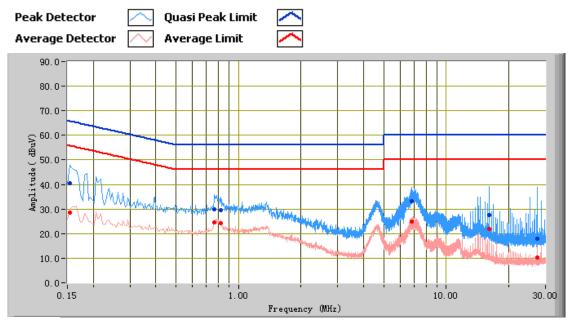
Test Data

Phase Line Plot at 120V AC, 60Hz

i nuse Elife i lot ut 120 v 110, ovi12							
Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
0.78	30.60	56.00	-25.40	25.24	46.00	-20.76	10.86
16.88	24.61	60.00	-35.39	18.79	50.00	-31.21	11.46
14.21	31.09	60.00	-28.91	24.63	50.00	-25.37	11.36
16.11	26.61	60.00	-33.39	20.82	50.00	-29.18	11.44
1.39	24.95	56.00	-31.05	20.11	46.00	-25.89	10.76
7.24	32.37	60.00	-27.63	24.58	50.00	-25.42	10.95

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 11 of 37 www.siemic.com.cn

Test Mode: Charging and Printing Mode (Worse Case)



Test Data

Phase Neutral Plot at 120V AC, 60Hz

Frequency (MHz)	Quasi Peak (dBµV)	Limit (dBµV)	Margin (dB)	Average (dBµV)	Limit (dBµV)	Margin (dB)	Factors (dB)
0.15	40.60	65.78	-25.18	28.50	55.78	-27.28	12.15
0.77	29.80	56.00	-26.20	24.48	46.00	-21.52	10.87
16.11	27.66	60.00	-32.34	21.93	50.00	-28.07	11.43
27.49	18.04	60.00	-41.96	10.13	50.00	-39.87	11.81
6.83	33.13	60.00	-26.87	24.82	50.00	-25.18	10.97
0.82	29.42	56.00	-26.58	24.09	46.00	-21.91	10.83

5.2 Radiated Emissions Test Result

Note:

1. All possible modes of operation were investigated. Only the 6 worst case emissions measured, using the correct CISPR detectors, are reported. All other emissions were relatively insignificant.

2. A "-ve" margin indicates a PASS as it refers to the margin present below the limit line at the particular frequency.

3. Radiated Emissions Measurement Uncertainty

All test measurements carried out are traceable to national standards. The uncertainty of the measurement at a confidence level of approximately 95% (in the case where distributions are normal), with a coverage factor of 2, in the range 30MHz - 1GHz (QP only @ 3m & 10m) is +5.6dB/-4.5dB (for EUT s < 0.5m X 0.5m), in the range 1GHz - 6GHz (PK & AV only @3m) is +4dB/-4dB (for EUT s < 0.5m X 0.5m).

4. Environmental Conditions Temperature 26°C Relative Humidity 50%

Atmospheric Pressure 1009mbar

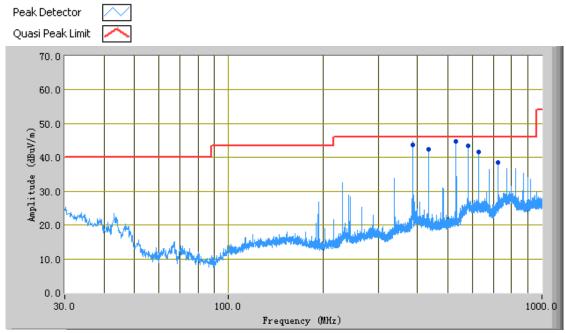
5. Test date: August 26, 2013 Tested By: Deon Dai

Test Result: Pass

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 13 of 37 www.siemic.com.cn

Test Mode: Charging and Printing Mode (Worse Case)

Below 1GHz



Test Data

Vertical& Horizontal Polarity Plot at 3m

Frequency (MHz)	Quasi Peak (dBµV/m)	Azimuth	Polarity (H/V)	Height (cm)	Factors (dB)	Limit (dBµV/m)	Margin (dB)
531.99	45.14	287.00	Н	194.00	-27.85	46.00	-0.86
386.90	43.75	278.00	Н	100.00	-29.97	46.00	-2.25
580.35	43.63	297.00	Н	170.00	-23.27	46.00	-2.37
435.25	42.35	278.00	Н	102.00	-28.87	46.00	-3.65
628.72	41.67	202.00	V	112.00	-21.05	46.00	-4.33
725.45	41.51	248.00	Н	122.00	-21.50	46.00	-4.49

Note: The data above 1 GHz which below 20 dB to the limit was not recorded.

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 14 of 37 www.siemic.com.cn

Annex A. TEST INSTRUMENT & METHOD

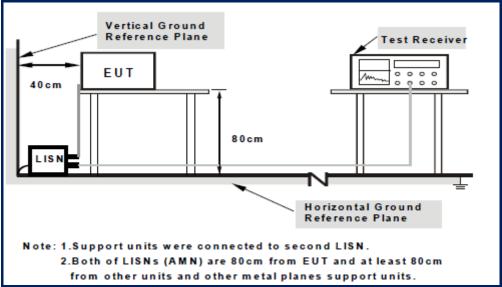
Annex A.i. TEST INSTRUMENTATION & GENERAL PROCEDURES

Instrument	Model	Serial #	Calibration Date	Calibration Due Date
AC Line Conducted Emissions				
R&S EMI Test Receiver	ESPI3	101216	10/27/2012	10/26/2013
V-LISN	ESH3-Z5	838979/005	10/27/2012	10/26/2013
Com-Power LISN	LI-115	241091	05/26/2013	05/25/2014
Com-Power Transient Limiter	LIT-153	531021	11/03/2012	11/02/2013
SIEMIC Labview Conducted Emissions software	V1.0	N/A	N/A	N/A
Radiated Emissions				
Hp Spectrum Analyzer	8563E	3821A09023	01/10/2013	01/09/2014
R&S EMI Receiver	ESPI3	101216	10/27/2012	10/26/2013
Antenna (30MHz~6GHz)	JB6	A121411	03/27/2013	03/26/2014
ETS-Lindgren Antenna (1 ~18GHz)	3115	N/A	10/29/2012	10/28/2013
A- INFOMW Antenna (1 ~18GHz)	JXTXLB- 10180	J2031081120 092	06/25/2013	06/24/2014
Horn Antenna (18~40GHz)	AH-840	101013	04/22/2013	04/22/2014
Microwave Pre-Amp (18~40GHz)	PA-840	181250	05/30/2013	05/29/2014
Hp Agilent Pre-Amplifier	8447F	1937A01160	11/03/2012	11/02/2013
MITEQ Pre-Amplifier (0.1 ~ 18GHz)	AMF-7D- 00101800- 30-10P	1451710	11/03/2012	11/02/2013
Chamber	3m	N/A	04/13/2013	04/12/2014
SIEMIC Labview Radiated Emissions software	V1.0	N/A	N/A	N/A

Annex A.ii. CONDUCTED EMISSIONS TEST DESCRIPTION

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5m x 1m x 0.8m high, non-metallic table, as shown in <u>Annex B</u>.
- 2. The power supply for the EUT was fed through a $50\Omega/50\mu$ H EUT LISN, connected to filtered mains.
- 3. The RF OUT of the EUT LISN was connected to the EMI test receiver via a low-loss coaxial cable.
- 4. All other supporting equipments were powered separately from another main supply.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration1

Test Method

- 1. The EUT was switched on and allowed to warm up to its normal operating condition.
- 2. A scan was made on the NEUTRAL line (for AC mains) or Earth line (for DC power) over the required frequency range using an EMI test receiver.
- 3. High peaks, relative to the limit line, were then selected.
- 4. The EMI test receiver was then tuned to the selected frequencies and the necessary measurements made with a receiver bandwidth setting of 10kHz. For FCC tests, only Quasi-peak measurements were made; while for CISPR/EN tests, both Quasi-peak and Average measurements were made.
- 5. Steps 2 to 4 were then repeated for the LIVE line (for AC mains) or DC line (for DC power).

Sample Calculation Example

At 20MHz $limit = 250 \mu V = 47.96 dB \mu V$ Transducer factor of LISN, pulse limiter & cable loss at 20MHz = 11.20dB

Q-P reading obtained directly from EMI Receiver = $40.00 dB\mu V$ (Calibrated for system losses)

Therefore, Q-P margin = 40.00-47.96 = -7.96 i.e. **7.96 dB below limit**

Annex A.iii. RADIATED EMISSIONS TEST DESCRIPTION

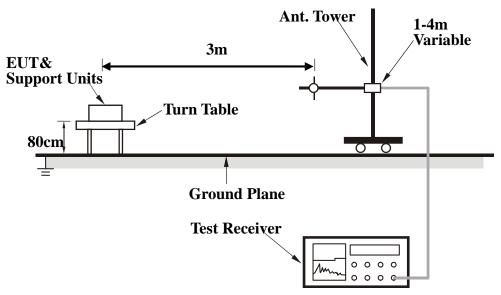
EUT Characterisation

EUT characterisation, over the frequency range from 30MHz to 10th Harmonic, was done in order to minimise radiated emissions testing time while still maintaining high confidence in the test results.

The EUT was placed in the chamber, at a height of about 0.8m on a turntable. Its radiated emissions frequency profile was observed, using a spectrum analyzer /receiver with the appropriate broadband antenna placed 3m away from the EUT. Radiated emissions from the EUT were maximised by rotating the turntable manually, changing the antenna polarisation and manipulating the EUT cables while observing the frequency profile on the spectrum analyzer / receiver. Frequency points at which maximum emissions occurred; clock frequencies and operating frequencies were then noted for the formal radiated emissions test at the Open Area Test Site (OATS) or 3m EMC chamber.

Test Set-up

- 1. The EUT and supporting equipment were set up in accordance with the requirements of the standard on top of a 1.5mX1.0mX0.8m high, non-metallic table.
- 2. The filtered power supply for the EUT and supporting equipment were tapped from the appropriate power sockets located on the turntable.
- 3. The relevant broadband antenna was set at the required test distance away from the EUT and supporting equipment boundary.



For the actual test configuration, please refer to the related item – Photographs of the Test Configuration2

Test Method

The following procedure was performed to determine the maximum emission axis of EUT:

- 1. With the receiving antenna is H polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
- 2. With the receiving antenna is V polarization, rotate the EUT in turns with three orthogonal axes to determine the axis of maximum emission.
- 3. Compare the results derived from above two steps. So, the axis of maximum emission from EUT was determined and the configuration was used to perform the final measurement.

Final Radiated Emission Measurement

- 1. Setup the configuration according to figure 1. Turn on EUT and make sure that it is in normal function.
- 2. For emission frequencies measured below 1GHz, a pre-scan is performed in a shielded chamber to determine the accurate frequencies of higher emissions will be checked on an open test site. As the same purpose, for emission frequencies measured above 1GHz, a pre-scan also be performed with a 1 meter measuring distance before final test.
- 3. For emission frequencies measured below and above 1GHz, set the spectrum analyzer on a 100kHz and 1MHz resolution bandwidth respectively for each frequency measured in step 2.
- 4. The search antenna is to be raised and lowered over a range from 1 to 4 meters in horizontally polarized orientation. Position the highness when the highest value is indicated on spectrum analyzer, then change the orientation of EUT on test table over a range from 0° to 360° with a speed as slow as possible, and keep the azimuth that highest emission is indicated on the spectrum analyzer. Vary the antenna position again and record the highest value as a final reading.
- 5. Repeat step 4 until all frequencies need to be measured was complete.
- 6. Repeat step 5 with search antenna in vertical polarized orientations.

During the radiated emission test, the Spectrum Analyzer was set with the following configurations:

Frequency Band (MHz)	MHz) Function Resolution bandwidth		Video Bandwidth
30 to 1000	Peak	100kHz	100kHz
Above 1000	Peak	1MHz	1MHz
Above 1000	Average	1MHz	10Hz

Sample Calculation Example

The field strength is calculated by adding the Antenna Factor and Cable Factor, and subtracting the Amplifier Gain (if any) from the measured reading. For the limit is employed average value, therefore the peak value can be transferred to average value by subtracting the duty factor. The basic equation with a sample calculation is as follows:

Peak = Reading + Corrected Factor

where

Corr. Factor = Antenna Factor + Cable Factor - Amplifier Gain (if any) And the average value is

> Average = Peak Value + Duty Factor or Set RBW = 1MHz, VBW = 10Hz.

Note:

If the measured frequencies are fall in the restricted frequency band, the limit employed must be quasi peak value when frequencies are below or equal to 1GHz. And the measuring instrument is set to quasi peak detector function.



Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 18 of 37

Annex B. EUT AND TEST SETUP PHOTOGRAPHS

Annex B.i. Photograph 1: EUT External Photo



Whole Package - Top View



Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 19 of 37 www.siemic.com.cn

1 2 3 4 5 6 7 6 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29

EUT - Front View



EUT - Rear View

SIEMIC, INC.

Title: EMG Test Report for EFT-POS Terminal
Main Model: IPS420
Serial Model: N/A
To: FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 20 of 37 www.siemic.com.cn



EUT - Top View



EUT - Bottom View



Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 21 of 37 www.siemic.com.cn



EUT - Left View



EUT - Right View

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 22 of 37 www.siemic.com.cn

Annex B.ii. Photograph 2: EUT Internal Photo



Cover Off – Top View 1



Cover Off – Top View 2

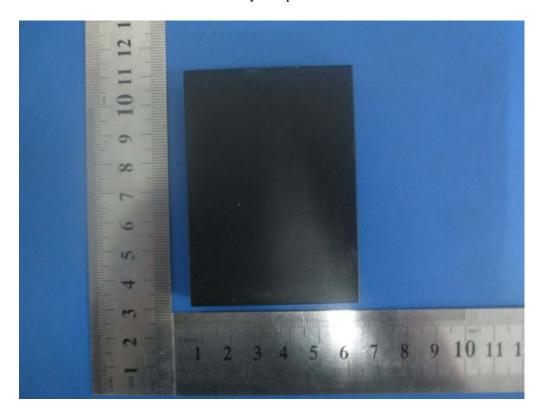
SIEMIC, INC.

Title: EMC Test Report for EFT-POS Terminal
Main Model: IPS420
Serial Model: N/A
To: FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 23 of 37 www.siemic.com.cn



Battery - Top View



Battery - Bottom View

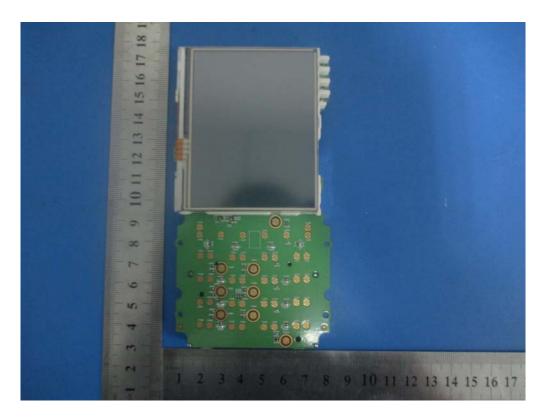
SIEMIC, INC.

Title: *EMC Test Report for EFT-POS Terminal
Main Model: IPS420
Serial Model: N/A
To: FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 24 of 37 www.siemic.com.cn



Uncover - Front View 1

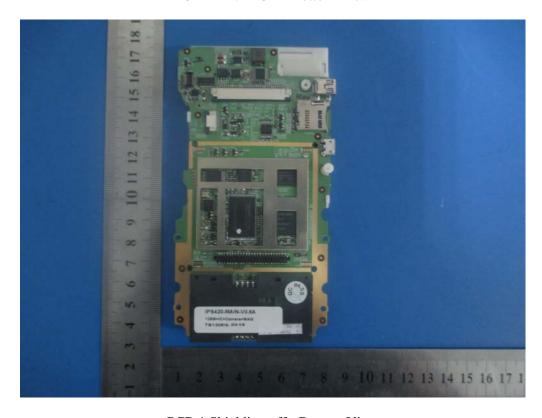


PCB 1 With LCD - Top View

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 25 of 37



PCB 1 With LCD - Bottom View

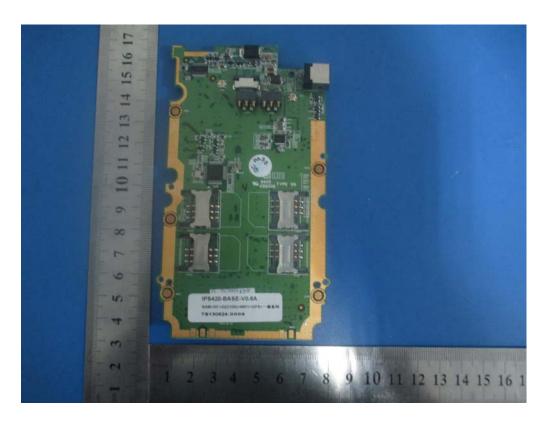


PCB 1 Shielding off - Bottom View

SIEMIC, INC.

Title: EMG Test Report for EFT-POS Terminal
Main Model: IPS420
Serial Model: N/A
To: FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 26 of 37



PCB 2 Front View

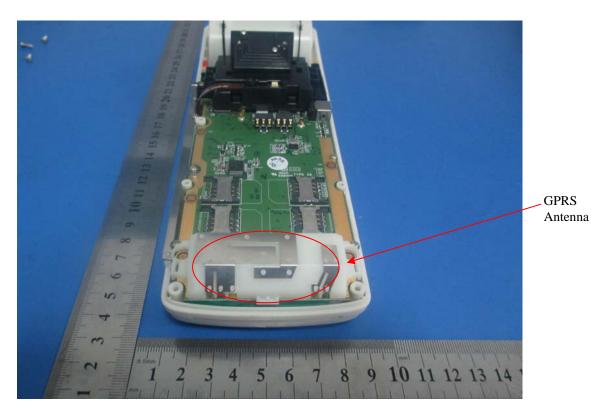


PCB 2 Rear View

SIEMIC, INC.

Title: *EMC Test Report for EFT-POS Terminal
Main Model: IPS420
Serial Model: N/A
To: FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 27 of 37 www.siemic.com.cn



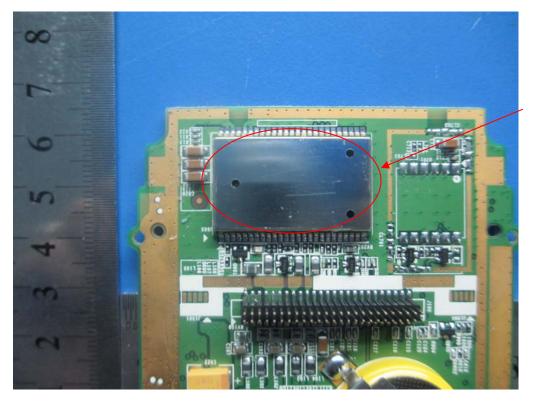
GPRS Antenna Front View



RFID Antenna Front View



Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 28 of 37 www.siemic.com.cn



GPRS Antenna Module

GPRS Antenna Module Front View



GPRS Antenna Module

GPRS Antenna Module Shielding off Front View

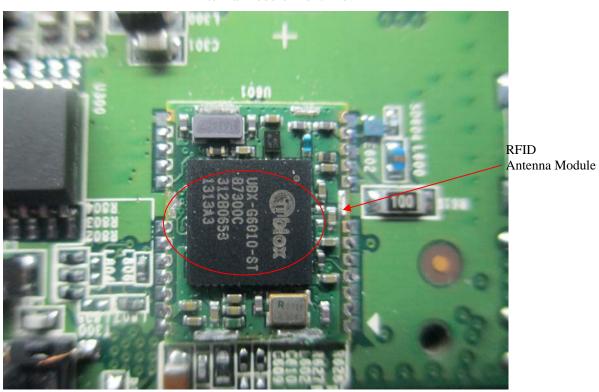
SIEMIC, INC. Title: *EMC Test Report for EFT-POS Terminal Main Model: IPS420 Serial Model: N/A To: FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009

Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 29 of 37 www.siemic.com.cn



RFID Antenna Module

RFID Antenna Module Front View



RFID Antenna Module Shielding off Front View



Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 30 of 37 www.siemic.com.cn

Annex B.iii. Photograph 3: Test Setup Photo



Conducted Emissions Test Setup Front View

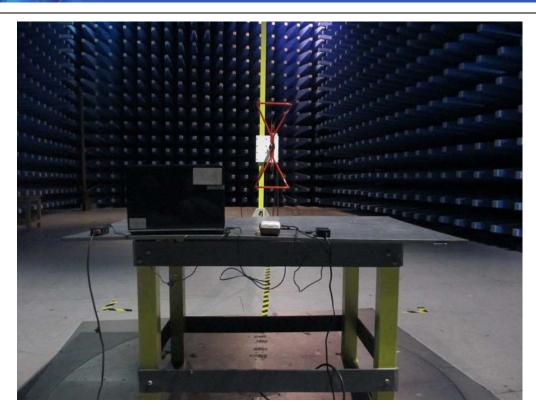


Conducted Emissions Test Setup Side View

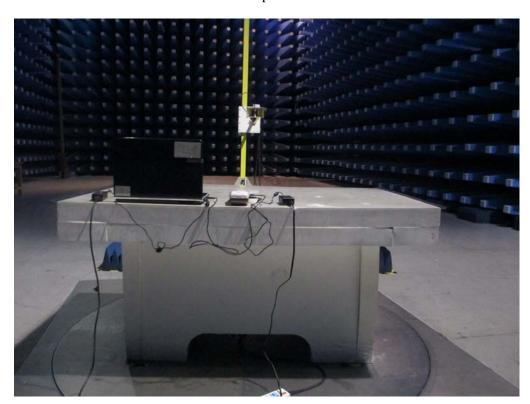
SIEMIC, INC.

Title: EMC Test Report for EFT-POS Terminal
Main Model: IPS420
Serial Model: N/A
To: FCC Part 15 Subpart B Class B: 2012, ANSI C 63.4: 2009

13050018-FCC-E-V1 September 12, 2013 31 of 37 www.siemic.com.cn Report No: Issue Date:



Radiated Emissions Setup Below 1GHz Rear View



Radiated Emissions Setup Above 1GHz Rear View

Annex C. TEST SETUP AND SUPPORTING EQUIPMENT

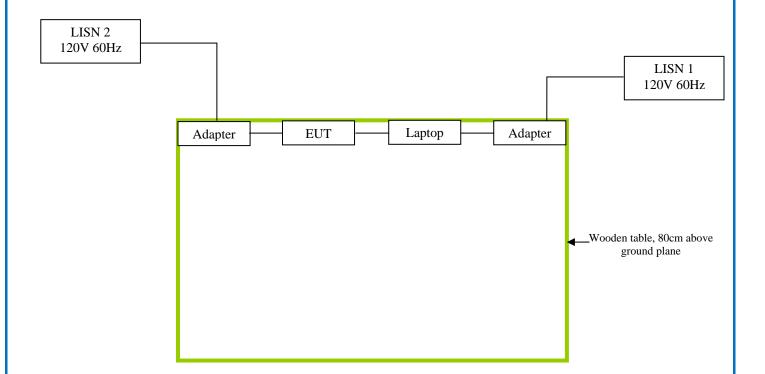
EUT TEST CONDITIONS

Annex C. i. SUPPORTING EQUIPMENT DESCRIPTION

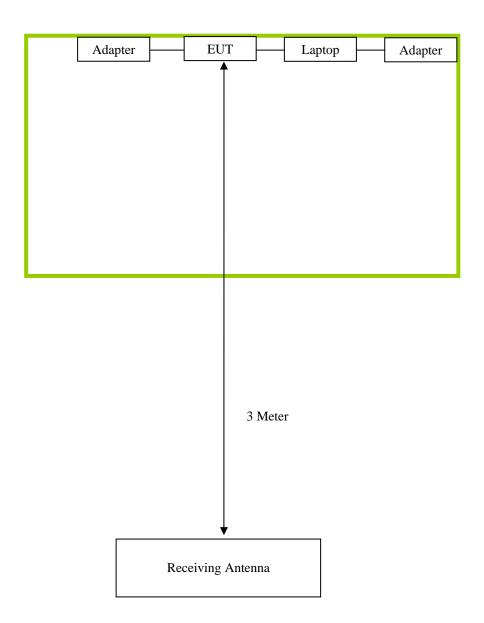
The following is a description of supporting equipment and details of cables used with the EUT.

Equipment Description (Including Brand Name)	Model & Serial Number	Cable Description (List Length, Type & Purpose)
Gateway Laptop	MS2288 & LXWHF02013951C3CA92200	N/A

Block Configuration Diagram for Conducted Emissions



Block Configuration Diagram for Radiated Emissions



Report No: 13050018-FCC-E-V1 Issue Date: September 12, 2013 Page: 35 of 37 www.siemic.com.cn

Annex C.ii. EUT OPERATING CONDITIONS

The following is the description of how the EUT is exercised during testing.

Test	Description Of Operation
Emissions Testing	Normal Working



Annex D. USER MANUAL / BLOCK DIAGRAM / SCHEMATICS / PART LIST

Please see attachment



Annex E. DECLARATION OF SIMILARITY

N/A