CONFORMANCE TEST REPORT
FOR
EN 50155 & EN 50121-3-2

Report No.: 14-04-RBO-054-01

According to:

- ■ **Electromagnetic Compatibility Directive: 2004/108/EC**
- ☐ **Low Voltage Directive: 2006/95/EC**
- ☐ **Radio Equipment and Telecommunications Terminal Equipment: 1999/5/EC**
- ☐ **Machinery Directives: 98/37/EC**

Client:	Vecow
Product:	Advanced Box PC
Model No.:	Vecow ABP Series; ABP-XXXX; ABP-2845
Comment Issues:	---
Manufacturer/supplier:	Vecow
Date test item received:	2014/04/28
Date test campaign completed:	2014/05/13
Date of issue	2014/05/16

Total number of pages of this test report:25 pages

Total number of pages of this test photos: 19 pages

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Laboratory Introduction: Electronics Testing Center, Taiwan is recognized, filed and mutual recognition arrangement as following:

❶ ISO9001: TüV Product Service
❷ ISO/IEC 17025: BSMI, CNLA, DGT, NVLAP, CCIBLAC, UL, Compliance
❸ Filing: FCC, Industry Canada, VCCI
❹ MRA: Australia, Hong Kong, New Zealand, Singapore, USA, Japan, Korea, China, APLAC through CNLA
❺ FCC Registration Number: 90588, 91094, 91095

CONTENTS

1 TEST REPORT CERTIFICATION

Client	:	Vecow
Address	:	12F., No. 111, Zhongcheng Rd., Tucheng Dist., New Taipei City 23674 Taiwan (R. O. C.)
Manufacturer	:	Vecow
Address	:	12F., No. 111, Zhongcheng Rd., Tucheng Dist., New Taipei City 23674 Taiwan (R. O. C.)
EUT	:	Advanced Box PC
Trade Name	:	Vecow
Model No.	:	Vecow ABP Series; ABP-XXXX; ABP-2845
Comment Issues	:	---

Test Standard : EN 50121-3-2:2006

Emissions	Immunity
EN 50155:2007	EN 61000-4-2:2009
CISPR11:2009/A1：2010	EN 61000-4-3:2006/A1:2008
	EN 61000-4-4:2004/A1:2010/A:2012
	EN 61000-4-5:2006
	EN 61000-4-6:2013

The testing described in this report has been carried out to the best of our knowledge and ability, and our responsibility is limited to the exercise of reasonable care. This certification is not intended to believe the sellers from their legal and/or contractual obligations.

2 GENERAL INFORMATIONS

2.1 Description of EUT:

Advanced Box PC

2.2 Related Information of EUT:

Power Supply : DC 9~28V
Power Line : ■ Nonshielded □ Shielded □ None , length: 1.8 m
Signal Line : □ Nonshielded □ Shielded ■ None , length: _____ m
Control Line : □ Nonshielded □ Shielded ■ None , length: _____ m
* For more detailed features, please refer to *User's Manual*.

2.3 Tested Configuration:

The EUT connected with the following peripheral devices.

Following peripheral devices and interface cables were connected during the measurement:

Product	Manufacturer	Model No.	Power/Line
Advanced Box PC*	Vecow	Vecow ABP Series; ABP-XXXX; ABP-2845	----
Mouse	DELL	MS111-L	1.5m Unshielded Cable
KeyBoard	M056UC	DELL	1.5m Shielded Cable
LCD TV	SONY	KDL-22EX420	1.6m Unshielded AC Power Cord
Earphone	---	---	0.6m Unshielded Cable
2.5吋HDD*2	WD	C4B	0.4m Unshielded USB Cable
2.5吋HDD	BUFFALO	HD-PCT500U3B	0.2m Unshielded USB Cable
HDMI Cable	---	---	1.0m Unshielded Cable
Network Cable	---	---	3.0m Unshielded Cable

2.4 Deviation Record:

(If any deviation from additions to or exclusions from test method must be stated)
N/A

2.5 Modification Record:

No modifications were required. (That is the EUT complied with the requirement as tested.)

2.6 Note:

Implementation of the EN 50121-3-2 tests, This Product is no Ground Line.

2.7 Measurement Uncertainty

Electromagnetic Interference		
Measurement	Frequency	Uncertainty
Conducted emissions	150kHz ~ 30MHz	±2.5dB(Mains)
Conducted emission at telecommunication ports	150kHz ~ 30MHz	±2.22dB(Voltage)
		±2.88dB(Current)
Magnetic emissions	9kHz ~ 30MHz	±2.5dB
Radiated emissions	30MHz ~ 1GHz	±3.90dB(30MHz≦f≦300MHz)
		±3.95dB(300MHz＜f≦1GHz)
	Above 1GHz	±4.42dB(1GHz≦f≦18GHz)
		±4.86dB(18GHz≦f≦40GHz)
Electromagnetic Susceptibility		
Measurement	Item	Uncertainty
Electrostatic Discharges (ESD)	---	±0.22(A)、58.67(V)
Radiated RF electromagnetic Fields	---	±1.2(dBμV)
Electrical Fast Transients and bursts	---	±2.95(V)
Surges	---	±2.95(V)
Conducted Disturbances, induced by RF fields	---	±0.7(dB)
Power-frequency Magnetic Field	---	±1.49(dB)
Voltage Dips, Interruptions, and variations	---	±4.18(V)

This uncertainty represents an expanded uncertainty expressed at approximately the 95% confidence level using a coverage factor of k=2.

3 SUMMARY OF TEST RESULTS

3.1 Emissions:

3.1.1 Conducted Emissions

■ **–PASS(Negative)**

EMI value to the limit: -13.1 dB at 1.3380 MHz

■ **–PASS(LINE)**

EMI value to the limit: -15.5 dB at 1.3380 MHz

3.1.2 Radiated Emissions

(30MHz to 1GHz)

■ **–PASS(Horizontal)**

EMI value to the limit: -5.32 dB at 213.6500 MHz

■ **–PASS(Vertical)**

EMI value to the limit: -4.73 dB at 209.6500 MHz

Notes: The measured value lies in the limited range that is the limit plus or minus estimated measurement uncertainty. The judgment between pass or fail is decided by buyers.

3.2 Immunity:

3.2.1 Immunity Criteria:

The results of all of the immunity tests performed on the EUT were evaluated according to the following criteria, and according to the manufacturer's specifications for the EUT:

Performance criterion A: The EUT continued to operate as intended. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended.

Performance criterion B: The EUT continued to operate as intended after the test. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended. During the test, degradation of performance was however allowed. No change of actual operating state or stored data was allowed.

Performance criterion C: Temporary loss of function was allowed, provided the function was self recoverable or could be restored by the operation of the controls.

3.2.2 Electrostatic Discharge Immunity:

Requirement: Criterion B (or better)

■ - No Degradation of Function	- Satisfies Criterion A
□ - Distortion of Function	- Satisfies Criterion B
□ - Error of Function	- Satisfies Criterion C

3.2.3 RF Radiated Fields Immunity:

Requirement: Criterion A

■ - No Degradation of Function	- Satisfies Criterion A
□ - Distortion of Function	- Satisfies Criterion B
□ - Error of Function	- Satisfies Criterion C

3.2.4 EFT/Burst Immunity:

Requirement: Criterion A

■ - No Degradation of Function	- Satisfies Criterion A
□ - Distortion of Function	- Satisfies Criterion B
□ - Error of Function	- Satisfies Criterion C

3.2.5 Surge Immunity:

Requirement: Criterion B (or better)

■ - No Degradation of Function	- Satisfies Criterion A
□ - Distortion of Function	- Satisfies Criterion B
□ - Error of Function	- Satisfies Criterion C

3.2.6 RF Common Mode Immunity:

Requirement: Criterion A

■ - No Degradation of Function	- Satisfies Criterion A
□ - Distortion of Function	- Satisfies Criterion B
□ - Error of Function	- Satisfies Criterion C

4 TEST DATA & RELATED INFORMATIONS

4.1 Emissions:

4.1.1 Conducted Emissions Test:

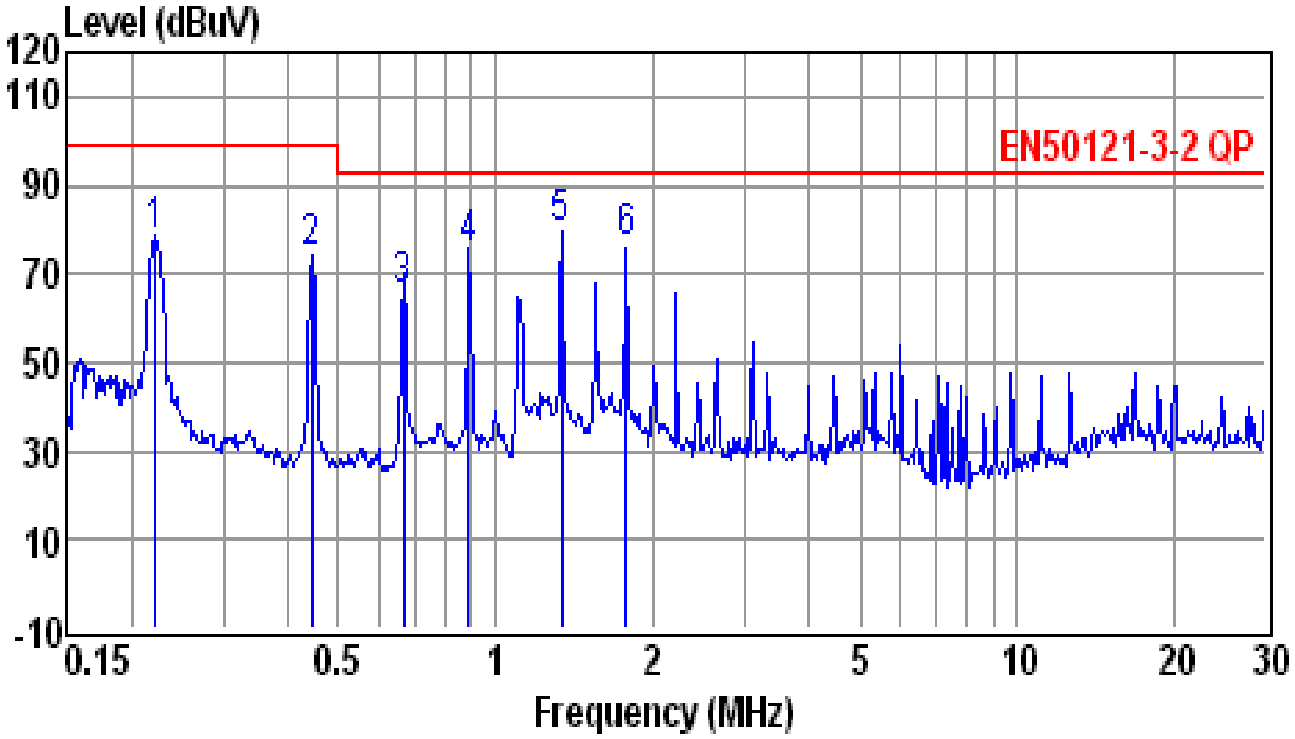
4.1.1.1 Conducted Emissions Test Data:

A. Operating Conditions of the EUT: Operation

Test Date: Dec.17,2013

Test Specification	EN 50155 (CISPR11)
Climatic Condition	Ambient Temperature: 23℃ Relative Humidity: 52 % RH
Power Supply System	DC Power: 24 Vdc

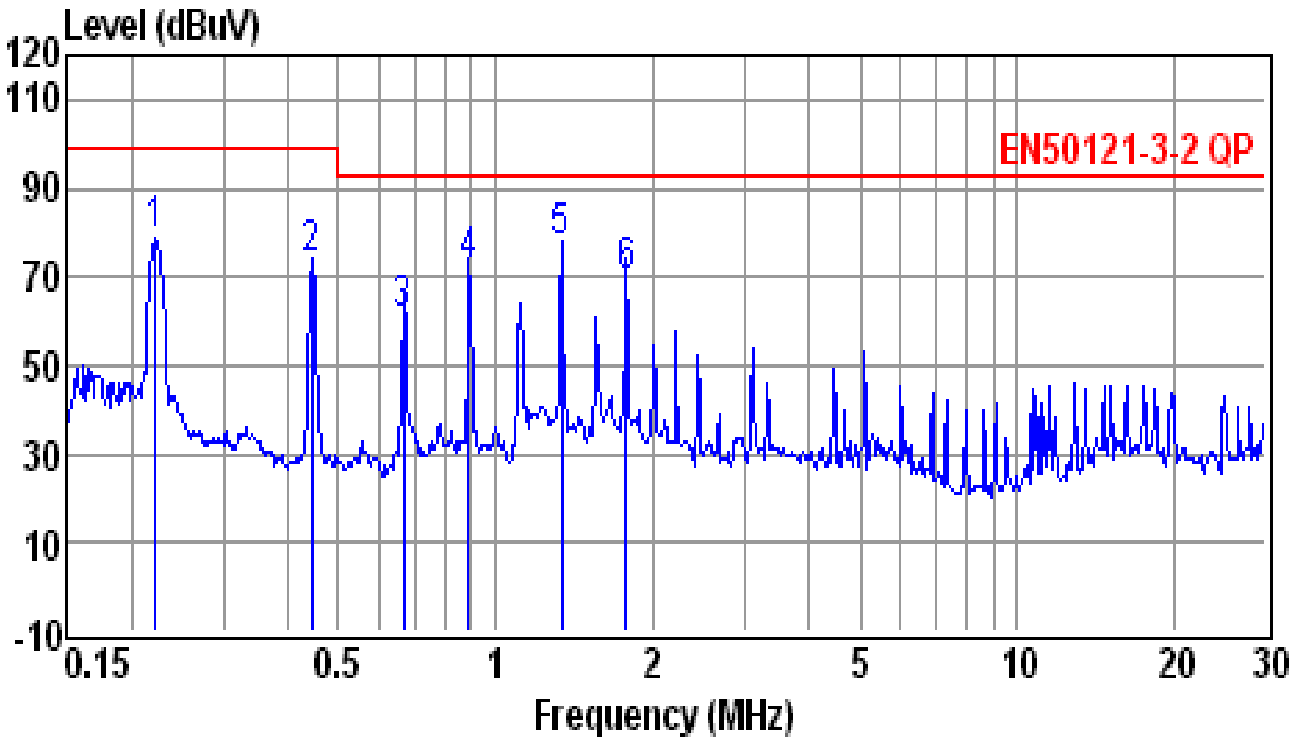
Test data see the next pages.



Site	: conducted #1	Date	: 05-08-2014
Condition	: EN50121-3-2 QP	LISN	: NEUTRAL
Tem / Hum	: 22 ℃ / 58%	Test Mode	: Operation Mode (PV-)
EUT	: Advanced Box PC	Power Rating	: DC 24V
Memo	: Vecow ABP Series; ABP-XXXX; ABP-2845	Memo	:

Freq (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Remark
0.2232	67.7	10.2	77.9	99.0	-21.1	QP
0.4444	64.1	10.2	74.3	99.0	-24.7	QP
0.6648	55.6	10.2	65.8	93.0	-27.2	QP
0.8897	64.9	10.2	75.1	93.0	-17.9	QP
1.3380	69.6	10.3	79.9	93.0	-13.1	QP
1.7810	65.7	10.3	76.0	93.0	-17.0	QP

Note :
1. Result = Reading + Factor
2. Factor = LISN Factor + Cable Loss



Site	: conducted #1	Date	: 05-08-2014
Condition	: EN50121-3-2 QP	LISN	: LINE
Tem / Hum	: 22 ℃ / 58%		
Test Mode	: Operation Mode (PV+)		
EUT	: Advanced Box PC	Power Rating	: DC 24V
Memo	: Vecow ABP Series; ABP-XXXX; ABP-2845	Memo	:

Freq (MHz)	Reading (dBuV)	Factor (dB)	Emission Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Remark
0.2232	68.7	10.1	78.8	99.0	-20.2	QP
0.4444	63.1	10.2	73.3	99.0	-25.7	QP
0.6648	50.3	10.2	60.5	93.0	-32.5	QP
0.8897	61.2	10.2	71.4	93.0	-21.6	QP
1.3380	67.2	10.3	77.5	93.0	-15.5	QP
1.7810	59.2	10.3	69.5	93.0	-23.5	QP

Note :
1. Result = Reading + Factor
2. Factor = LISN Factor + Cable Loss

4.1.2 Radiated Emissions Test:

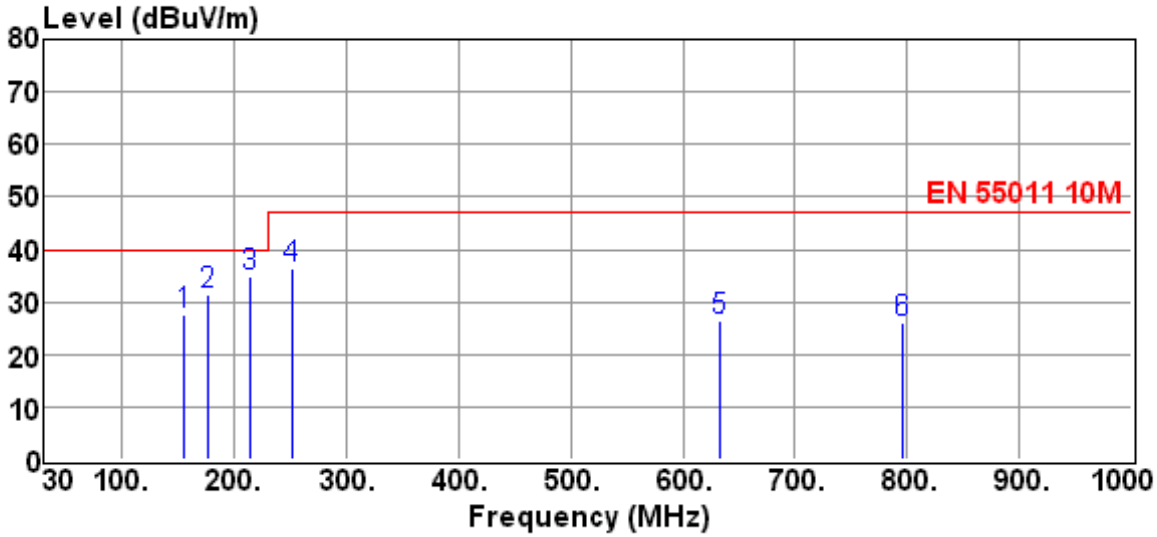
4.1.2.1 Radiated Emissions Test Data:

A. Operating Conditions of The EUT: Operation Mode

Test Date: May 13., 2014

Test Specification	EN 50155 (CISPR11)
Climatic Condition	Ambient Temperature: 27℃ Relative Humidity: 52 % RH
Power Supply System	DC Power: 24 Vdc

Test data see the next pages.

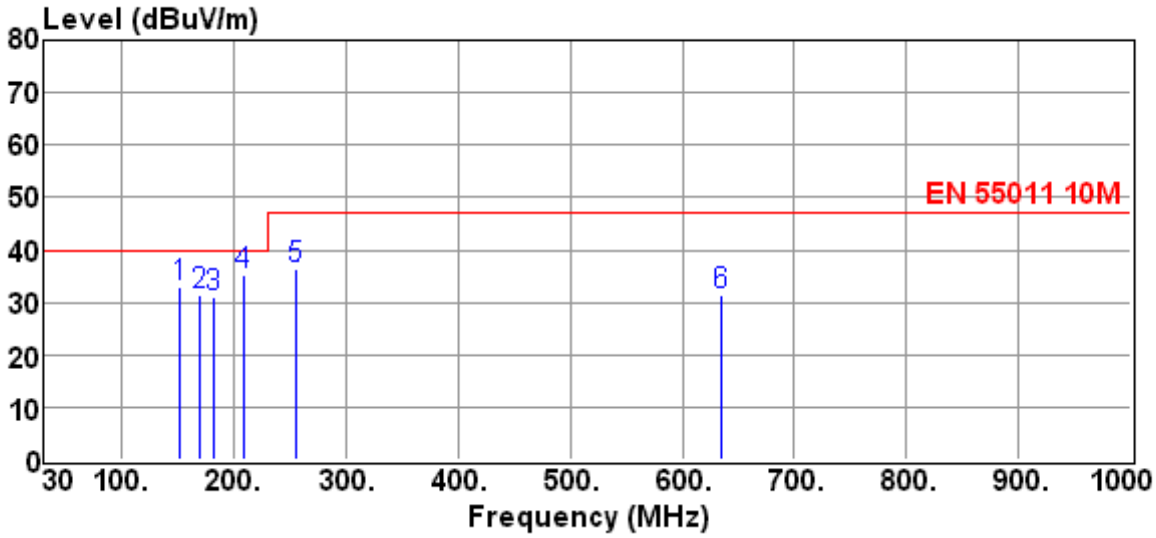


Site	:Open site #2	Date	:2014-05-13
EUT	: Advanced Box PC	Ant. Pol.	:HORIZONTAL
Model	: Vecow ABP Series; ABP-XXXX; ABP-2845		
Detector	:QP		
Power Rating	:DC 24V	Engineer	:Sky Kuo
Limit	:EN 55011 10M	Temp.	:27 ˚C
Memo	:Operation mode	Humi.	:52 %

Freq MHz	Reading dBuV	Correction Factor dB	Result dBuV/m	Limits dBuV/m	Over limit dB
154.3200	14.01	13.63	27.64	40.00	-12.36
176.7400	17.97	13.27	31.24	40.00	-8.76
213.6500	19.89	14.79	34.68	40.00	-5.32
252.4100	20.22	16.08	36.30	47.00	-10.70
633.3500	-0.22	26.46	26.24	47.00	-20.76
796.6100	-4.30	30.43	26.13	47.00	-20.87

Note :

1. Result = Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss
3. The margin value=Limit - Result



Site	:Open site #2	Date	:2014-05-13
EUT	: Advanced Box PC	Ant. Pol.	:VERTICAL
Model	: Vecow ABP Series; ABP-XXXX; ABP-2845		
Detector	:QP		
Power Rating	:DC 24V	Engineer	:Sky Kuo
Limit	:EN 55011 10M	Temp.	:27 ˚C
Memo	:Operation mode	Humi.	:52 %

Freq MHz	Reading dBuV	Correction Factor dB	Result dBuV/m	Limits dBuV/m	Over limit dB
151.7100	19.25	13.69	32.94	40.00	-7.06
169.8400	17.82	13.40	31.22	40.00	-8.78
182.8100	17.78	13.26	31.04	40.00	-8.96
209.6500	20.27	15.00	35.27	40.00	-4.73
255.4300	19.81	16.50	36.31	47.00	-10.69
634.2100	4.95	26.47	31.42	47.00	-15.58

Note :

1. Result = Reading + Corrected Factor
2. Corrected Factor = Antenna Factor + Cable Loss
3. The margin value=Limit - Result

4.2 Immunity:

4.2.1 Electrostatic Discharge Immunity Test:

4.2.1.1 Electrostatic Discharge Immunity Test Data:

A. Operating Conditions of the EUT: Operation Mode

Test Date: May 12, 2014

Test Specification	EN 61000-4-2
Climatic Condition	Ambient Temperature: 27°C Relative Humidity: 52 % RH Atmospheric Pressure: 990 mbar
Power Supply System	DC Power: 24 Vdc

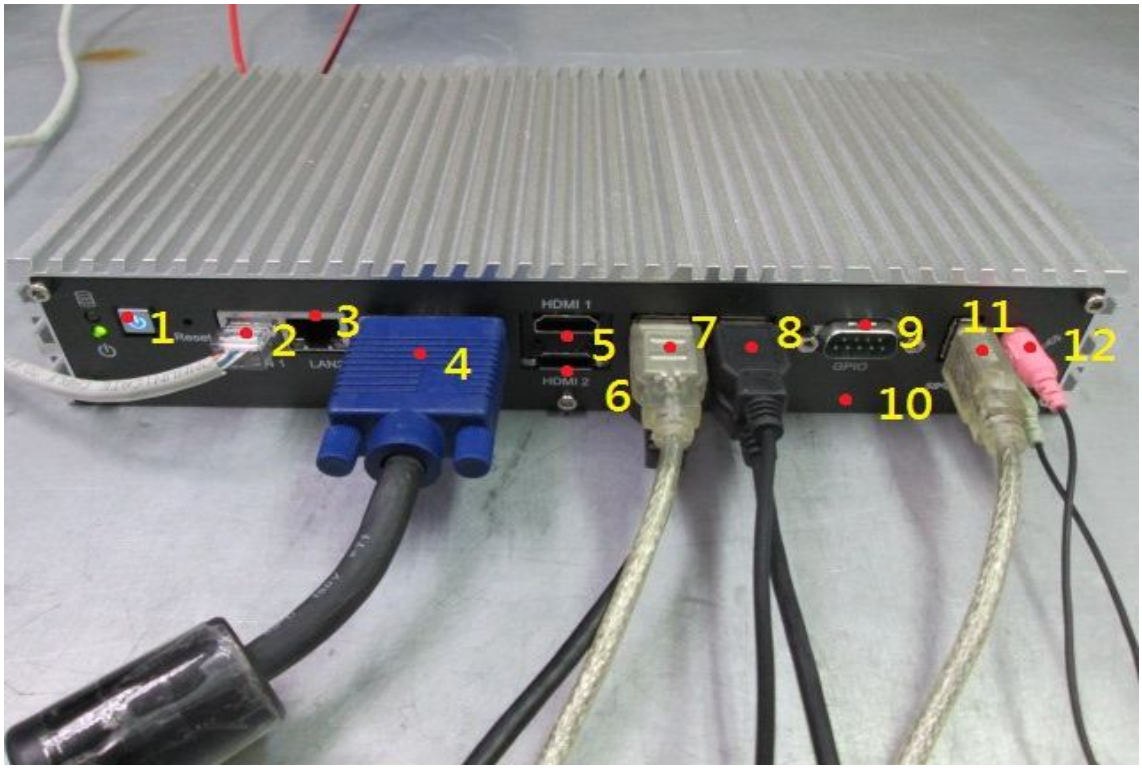
Energy-Storage Capacitor : 150 pF
Discharge Resistor : 330 Ω
Contact Discharge Times : 25 times/each condition
Air Discharge Times : 10 times/each condition

\ Discharge Mode	Contact Discharge								Air Discharge							
\ESD Voltage	2 kV		4 kV		6 kV		___ kV		2 kV		4 kV		8 kV		___ kV	
\Points\Result\Polarity	+	−	+	−	+	−	+	−	+	−	+	−	+	−	+	−
VCP	A	A	A	A	A	A	---	---	---	---	---	---	---	---	---	---
HCP	A	A	A	A	A	A	---	---	---	---	---	---	---	---	---	---
P3、P5、P6、P9、P10、P16~P21、P23~P32	A	A	A	A	A	A	---	---	---	---	---	---	---	---	---	---
P1、P2~P4、P7、P8、P11~P15、P22	---	---	---	---	---	---	---	---	A	A	A	A	A	A	---	---

Result:	■ Complied	□ Does not comply	
Criterion Required:	B	Criterion Met:	A

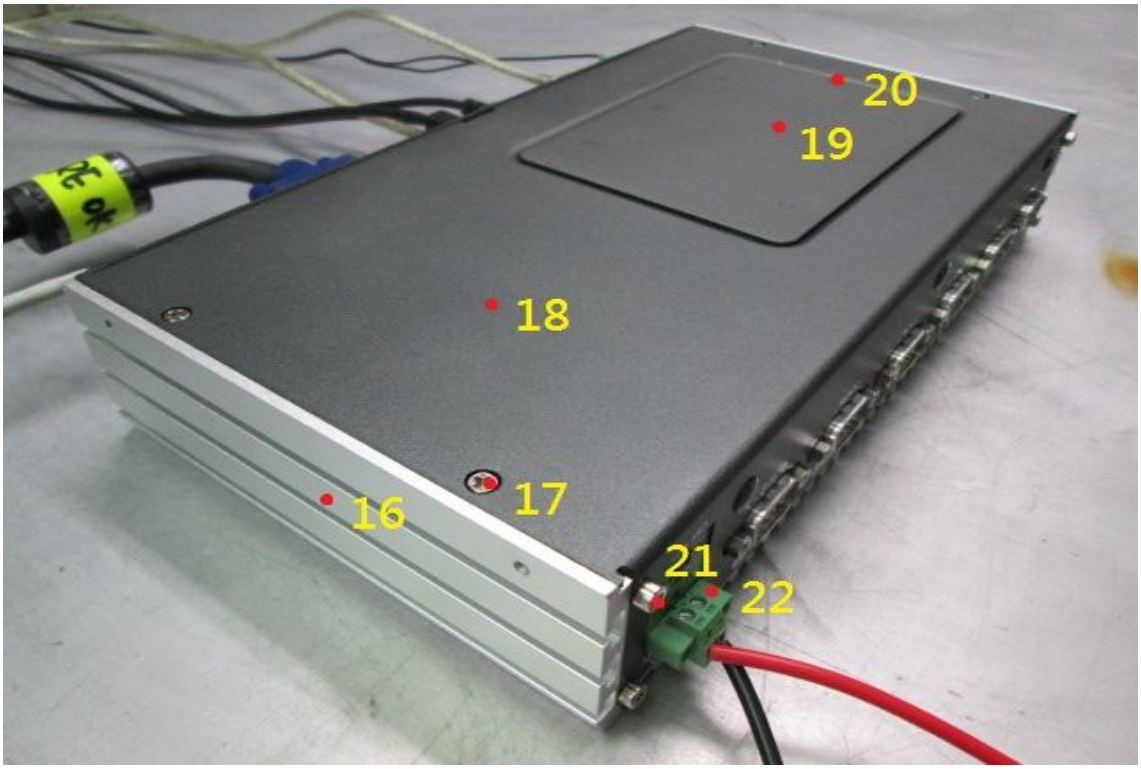
Note: "**A**" means the EUT continued to operate as intended. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended.

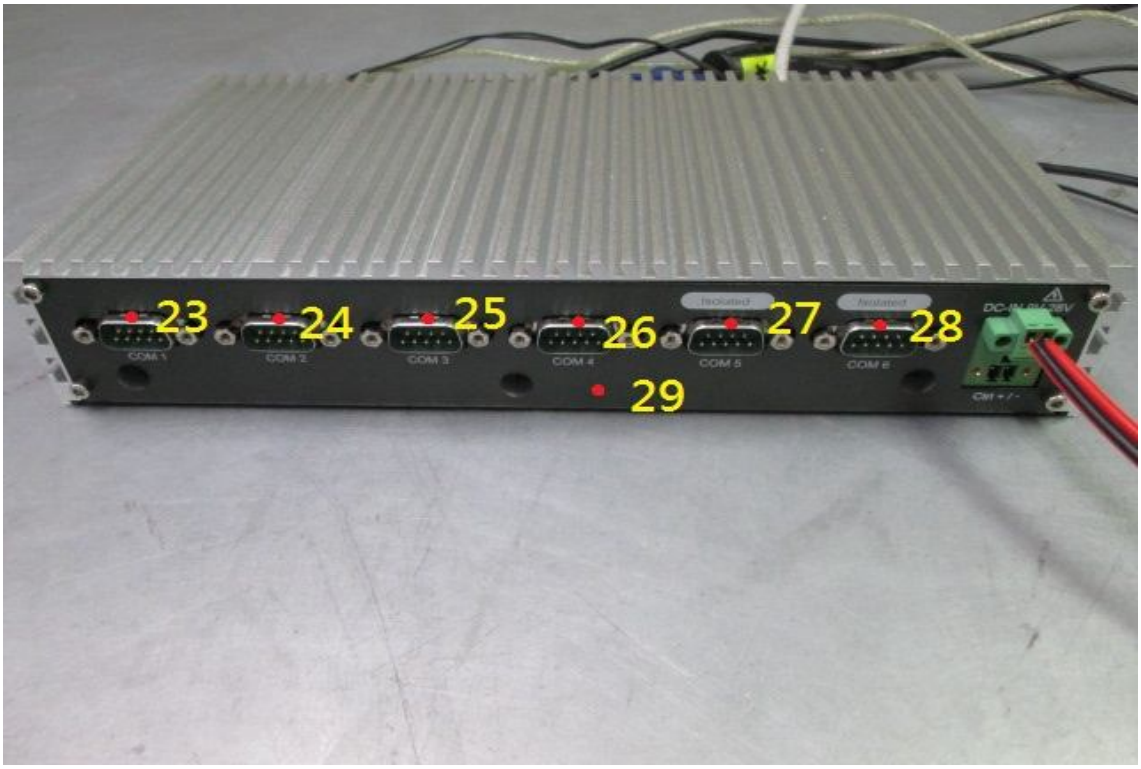
TEST POINTS


1
2
3
4
5
6
7
8
9
10
11
12
HDMI 1
HDMI 2
GPIO

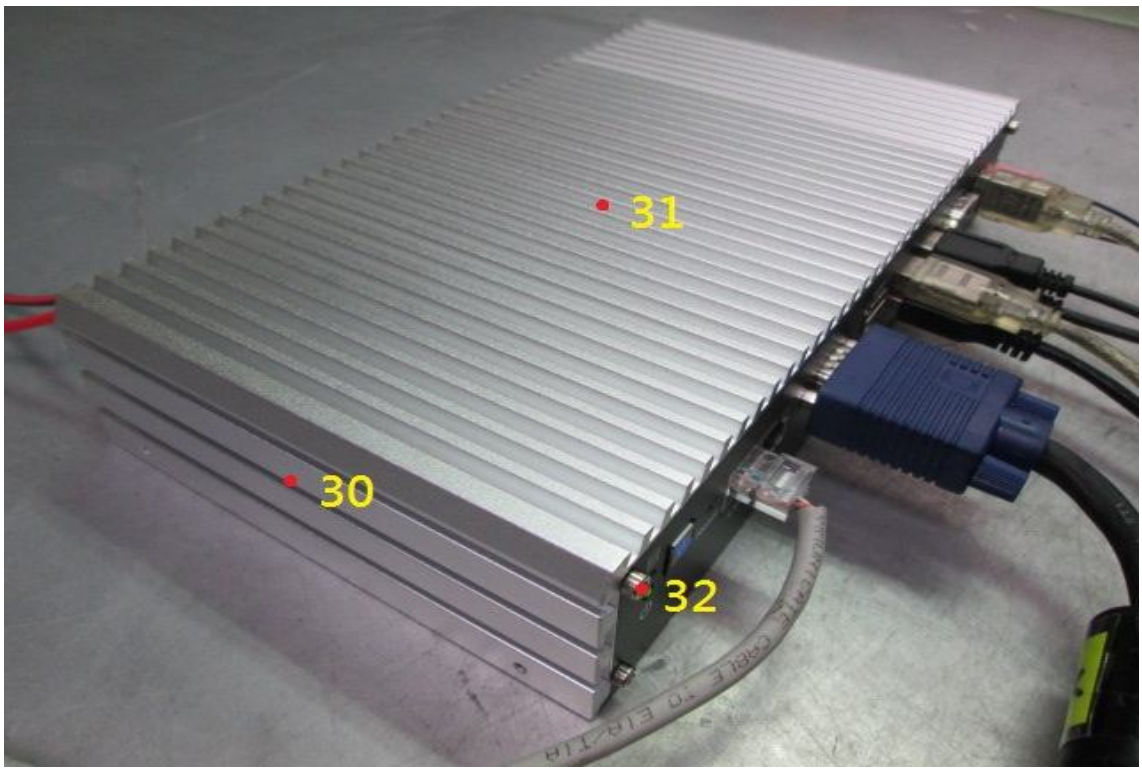

13
14
15
GPIO
HDMI 2
HDMI 1
VGA
LAN2
LAN 1

TEST POINTS





TEST POINTS



4.2.2 RF Radiated Fields Immunity Test:

4.2.2.1 RF Radiated Fields Immunity Test Data:

A. Operating Conditions of the EUT: Operation Mode

Test Date: Apr. 30, 2014

Test Specification	EN 61000-4-3
Climatic Condition	Ambient Temperature: 25°C Relative Humidity: 58% RH
Power Supply System	DC Power: 24 Vdc

Frequency Range 80 MHz ~ 1000 MHz		Field Strength 20 V/m	Modulation (AM 1kHz 80%)
Sweep Rate : ≦1.5×10^{-3} ecades/s	Step Size : ≦1 % of preceding frequency value		Dwell Time : 3 s
Frequency Range (MHz)	Polarization of Device	Directing of Device	Test Result
80 MHz ~ 1000 MHz	Horizontal	Front	A
		Rear	A
		Left	A
		Right	A
80 MHz ~ 1000 MHz	Vertical	Front	A
		Rear	A
		Left	A
		Right	A

Frequency Range 1400 MHz ~ 2100 MHz		Field Strength 10 V/m	Modulation (AM 1kHz 80%)
Sweep Rate : ≦1.5×10^{-3} ecades/s	Step Size : ≦1 % of preceding frequency value		Dwell Time : 3 s
Frequency Range (MHz)	Polarization of Device	Directing of Device	Test Result
1400 MHz ~ 2100 MHz	Horizontal	Front	A
		Rear	A
		Left	A
		Right	A
1400 MHz ~ 2100 MHz	Vertical	Front	A
		Rear	A
		Left	A
		Right	A

Frequency Range 2100 MHz ~ 2500 MHz	Field Strength 5 V/m	Modulation (AM 1kHz 80%)
Sweep Rate : ≦1.5×10^{-3} ecades/s	Step Size : ≦1 % of preceding frequency value	Dwell Time : 3 s

Frequency Range (MHz)	Polarization of Device	Directing of Device	Test Result
2100 MHz ~ 2500 MHz	Horizontal	Front	A
		Rear	A
		Left	A
		Right	A
2100 MHz ~ 2500 MHz	Vertical	Front	A
		Rear	A
		Left	A
		Right	A

Result:	■ Complied	□ Does not comply	
Criterion Required:	A	Criterion Met:	A

Note: "**A**" means the EUT continued to operate as intended. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended.

4.2.3 EFT/Burst Immunity Test:

4.2.3.1 EFT/Burst Immunity Test Data:

A. Operating Conditions of the EUT: Operation Mode

Test Date : Apr. 30, 2013

Test Specification	EN 61000-4-4
Climatic Condition	Ambient Temperature: 26 °C Relative Humidity: 56 %RH
	Atmospheric Pressure: 990 mbar
Power Supply System	DC Power: 24 Vdc

Pulse : 5 /50ns Burst : 15ms /300ms		Repetition Rate : 5kHz	Test time : 1 min/each condition
Voltage\Polarity\Test Point\Mode\Result		2.0 kV	
		+	-
Power Line	PV+ to PV-	A	A
Signal Line	LAN Cable	A	A

Result:	■ Complied	□ Does not comply	
Criterion Required:	A	Criterion Met:	A

Note: "**A**" means the EUT continued to operate as intended. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended.

4.2.4 Surge Immunity Test:

4.2.4.1 Surge Immunity Test Data:

A. Operating Conditions of the EUT: Operation Mode

Test Date : May 12, 2014

Test Specification	EN 61000-4-5
Climatic Condition	Ambient Temperature: 27 °C Relative Humidity: 51 %RH
	Atmospheric Pressure: 990 mbar
Power Supply System	DC Power : POWER OFF

Waveform : 1.2/50μs(8/20μs)		Repetition rate : 60 sec	Times : POWER 5 time/each condition
Phase\Voltage \Mode \Polarity \Result			
1KV	**PV+ to PV-**	+	A
		–	A

Result:	■ Complied	□ Does not comply	
Criterion Required:	B	Criterion Met:	A

Note: "**A**" means the EUT continued to operate as intended. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended.

4.2.5 RF Common Mode Immunity Test:

4.2.5.1 RF Common Mode Immunity Test Data:

A. Operating Conditions of the EUT: Operation Mode

Test Date : Apr 30, 2014

Test Specification	EN 61000-4-6
Climatic Condition	Ambient Temperature: 26 °C Relative Humidity: 54 %RH
Power Supply System	DC Power: 24 Vdc

Frequency Range	0.15MHz ~80MHz		Test Level 10Vrms	Modulation (AM 1kHz 80%)	
Sweep Rate	: ≤ 1.5×10^{-3} decades/s	Step Size	: ≤ 1 % of preceding frequency value	Dwell Time	: 3 s
Frequency Range (MHz)		Tested Line		Test Result	
0.15MHz ~80MHz		CDN-M2		A	
0.15MHz ~80MHz		CDN-RJ45		A	

Result:	■ Complied	□ Does not comply	
Criterion Required:	A	Criterion Met:	A

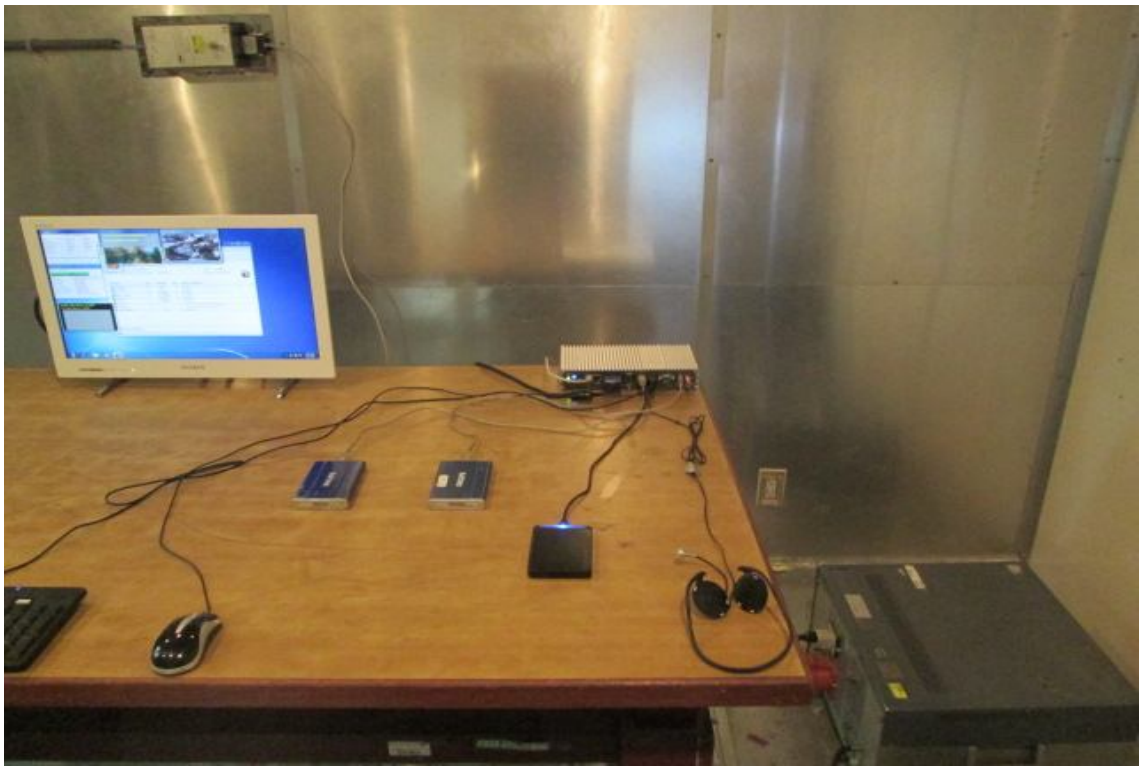
Note: "**A**" means the EUT continued to operate as intended. No degradation of performance or loss of function was allowed below a performance level specified by the manufacturer, when the EUT was used as intended.

5 EQUIPMENTS LIST FOR TESTING

Item	Name	Manufacturer	Model	Calibration Date	Recommended Recal. Date
1	EMI Test Receiver	Rohde & Schwarz	ESCI	2013/08/02	2014/08/01
2	LISN	EMCO	3625/2	2014/05/06	2015/05/06
3	LISN	Rohde & Schwarz	ESH2-Z5	2014/04/12	2015/04/11
4	Current Probe	Rohde & Schwarz	ESH2-Z1	2013/08/06	2014/08/05
5	ISN	FCC	FCC-TLISN-T2-02	2013/10/05	2014/10/04
6	ISN	FCC	FCC-TLISN-T4-02	2013/09/20	2014/09/19
7	Test Receiver	Rohde & Schwarz	ESVS30	2014/05/06	2015/05/05
8	Amplifier	HP	8447D	2013/08/08	2014/08/07
9	EMI Test Receiver	Rohde & Schwarz	ESL	2013/09/11	2014/09/10
10	Bi-Log Antenna	ETC	MCTD 2756	2014/01/03	2015//01/02
11	Test Receiver	Rohde & Schwarz	ESU40	2013/09/24	2014/09/23
12	Amplifier	HP	8449B	2014/01/15	2015/01/14
13	Horn Antenna	EMCO	3115	2013/08/02	2014/08/01
14	ESD Simulator	NoiseKen	ESS-2002	2013/07/30	2014/07/29
15	Antenna	Sunal Sciences	JB6	N/A	N/A
16	signal Generator	Aglient	EMC330	2014/03/13	2015/03/12
17	Amplifier	Ophir	5172	N/A	N/A
18	Amplifier	Ophir	5127	N/A	N/A
19	POWER METER	Booton	4232A	2013/09/27	2014/09/26
20	EMC Immunity tester	EMC-PARTNER	Harmonics-2000	2013/08/07	2014/08/06
21	CS TESTER	FRANKONIA	CIT-10	2014/05/06	2015/05/05
22	CDN-M2/M3	FRANKONIA	M2/M3	2014/05/10	2015/05/09
23	SCHAFFUER	CS-CLAMP	KEMZ801	2014/05/11	2015/05/10

ANNEX A: PHOTOS

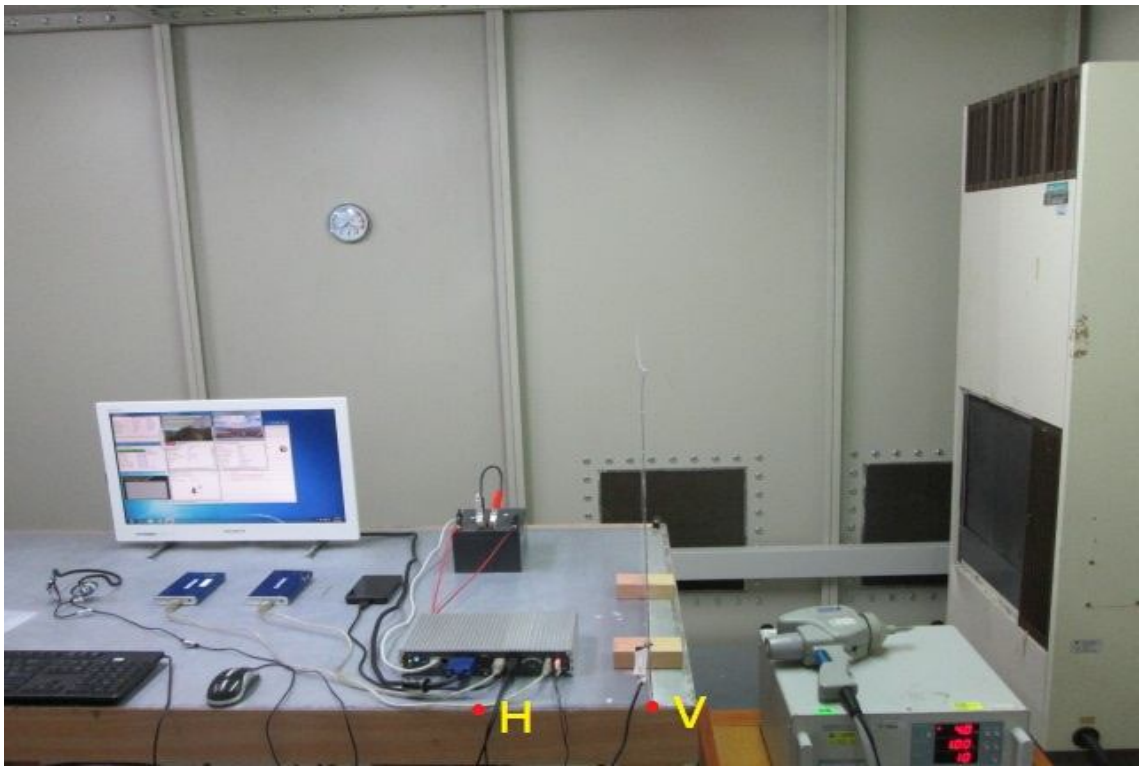
1. Conducted Emissions Test Setup Photos



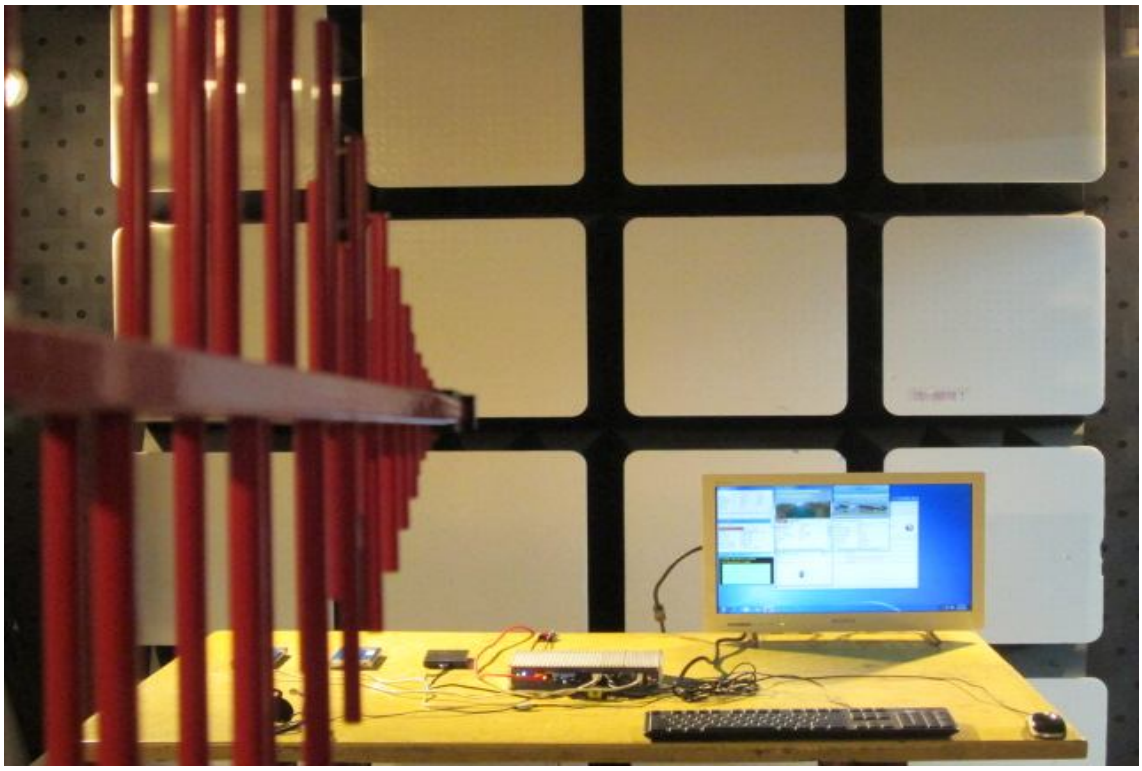
2. Radiated Emissions Test Setup Photos

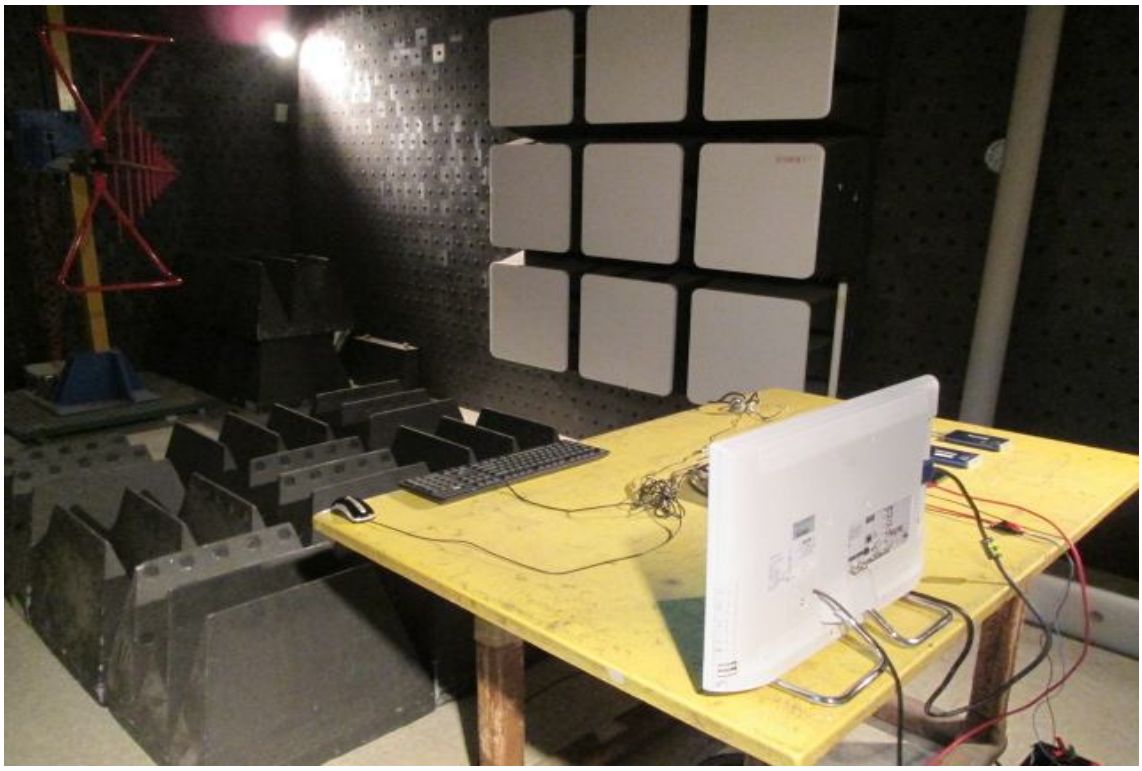
(30MHz to 1GHz)

3. Electrostatic Discharge Immunity Test Setup Photo



4. RF Radiated Fields Immunity Test Setup Photo





5. EFT/Burst Immunity Test Setup Photo

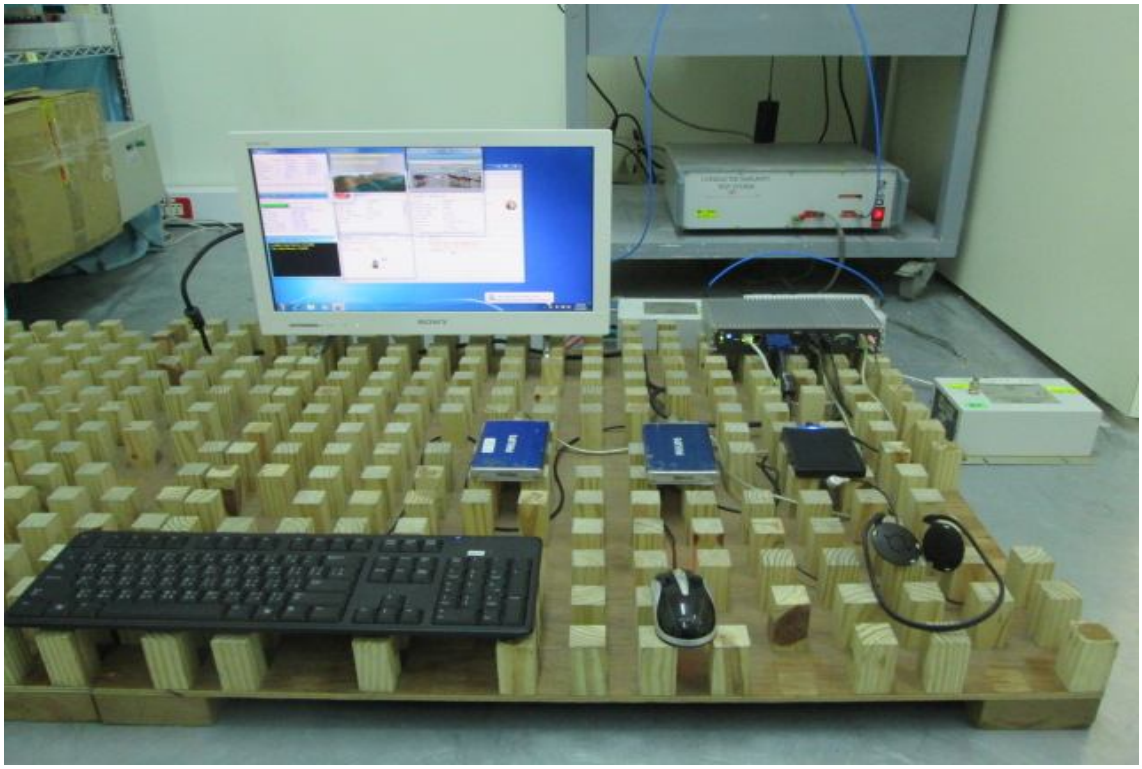
TEST MODE: DC

TEST MODE: LAN

6. Surge Immunity Test Setup Photo

7. RF Common Mode Immunity Test Setup Photo

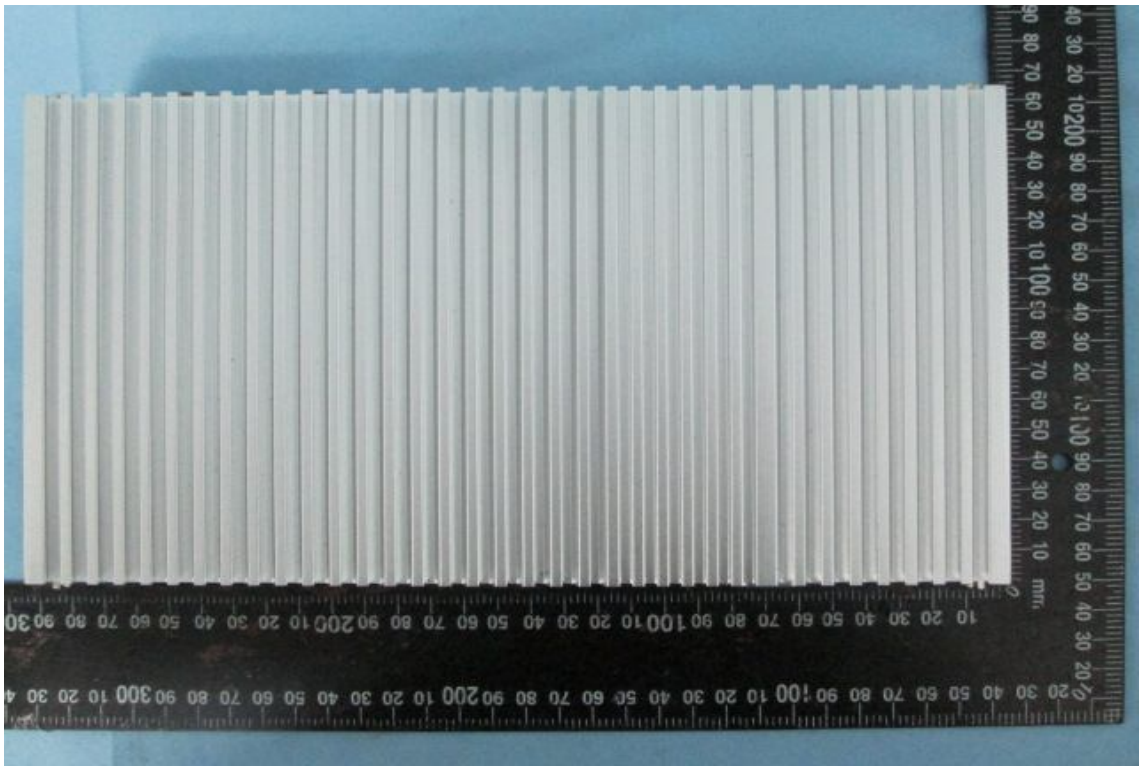
TEST MODE:DC



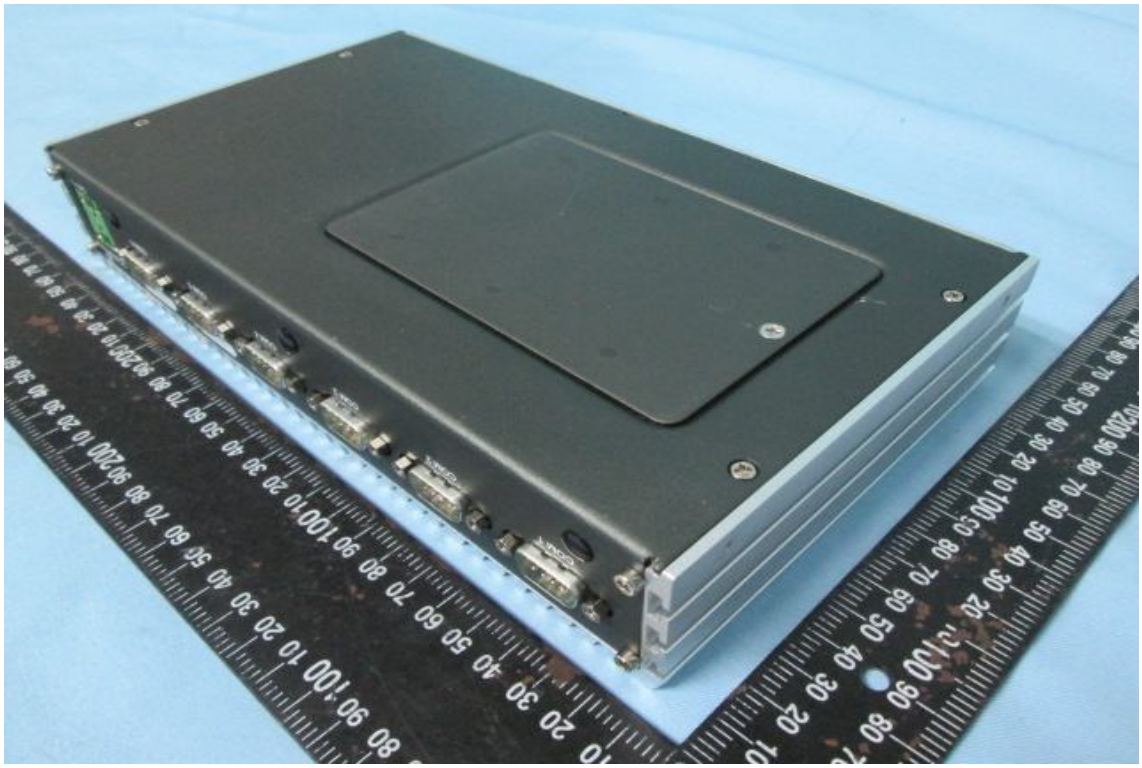
TEST MODE:LAN

8. Outside view 1 of EUT

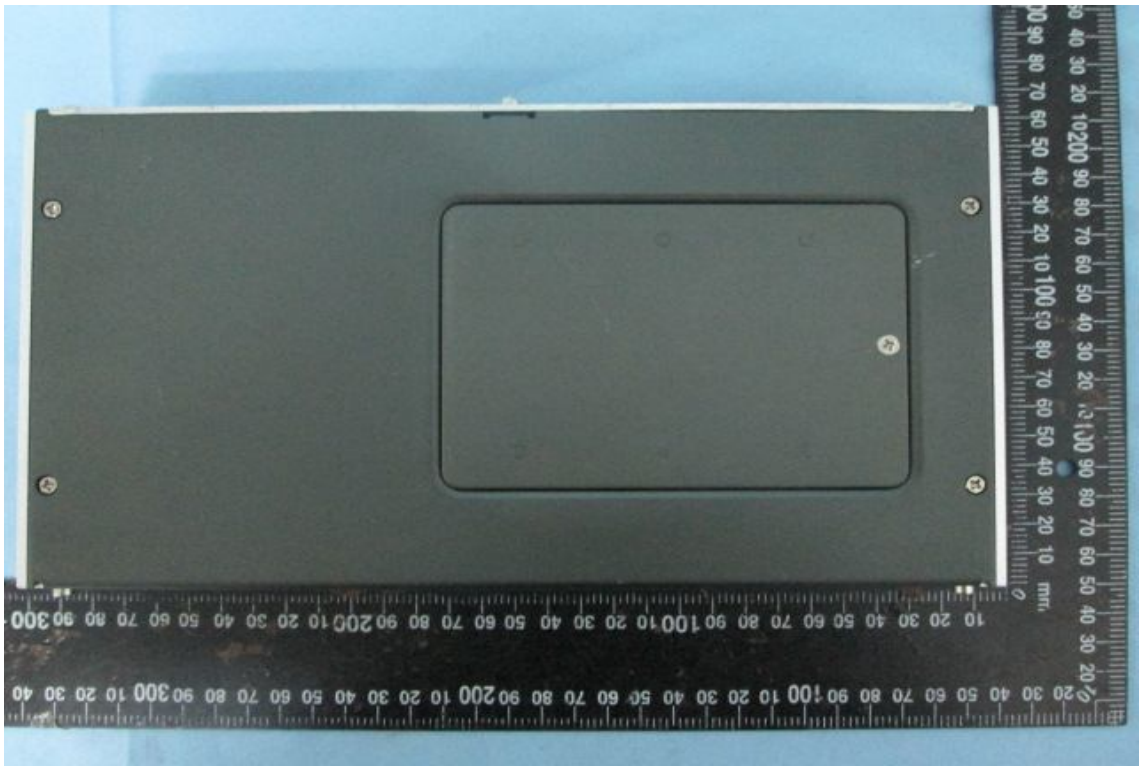
9. Outside view 2 of EUT



10. Outside view 3 of EUT



11. Outside view 4 of EUT



12. Outside view 5 of EUT

13. Outside view 6 of EUT

14. Outside view 7 of EUT

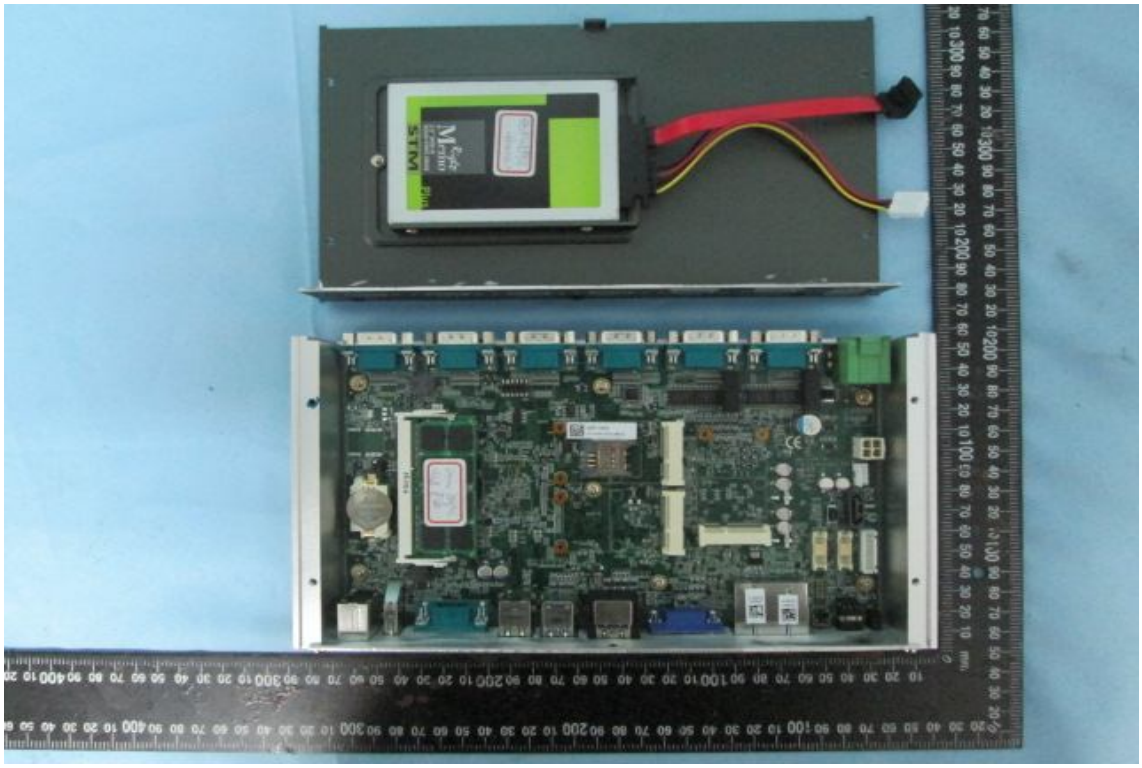
15. Outside view 8 of EUT

16. Outside view 9 of EUT

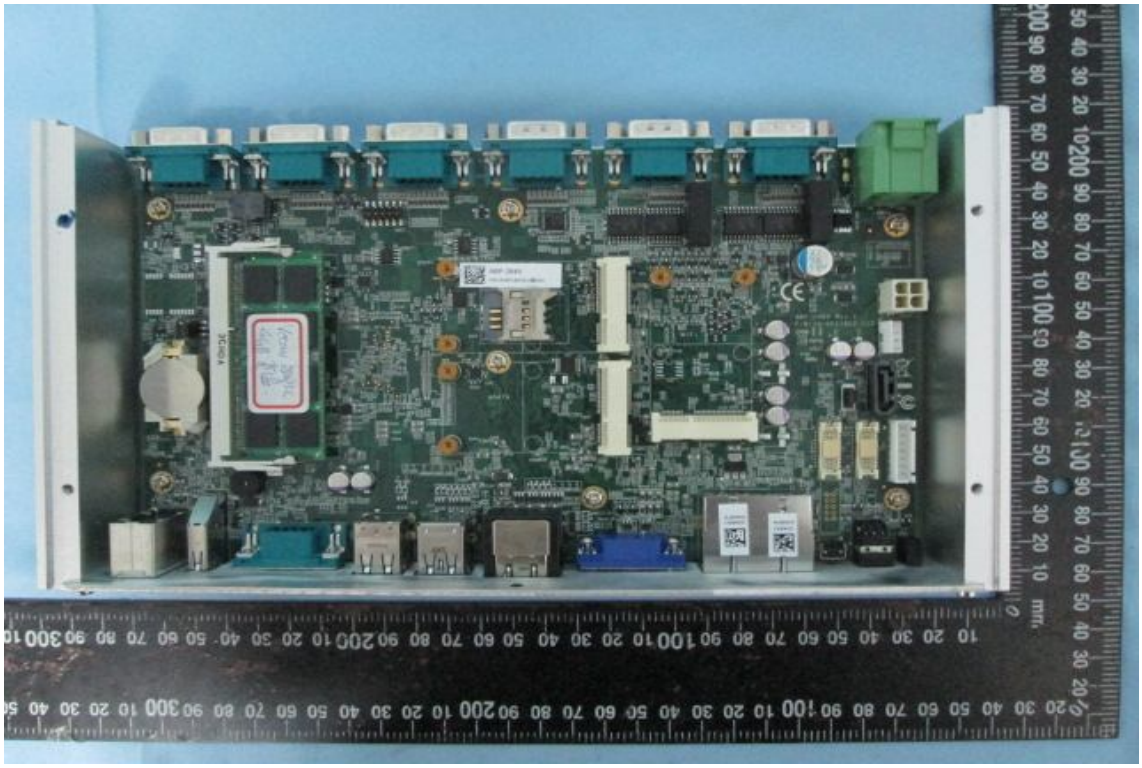
17. Outside view 10 of EUT

18. Outside view 11 of EUT

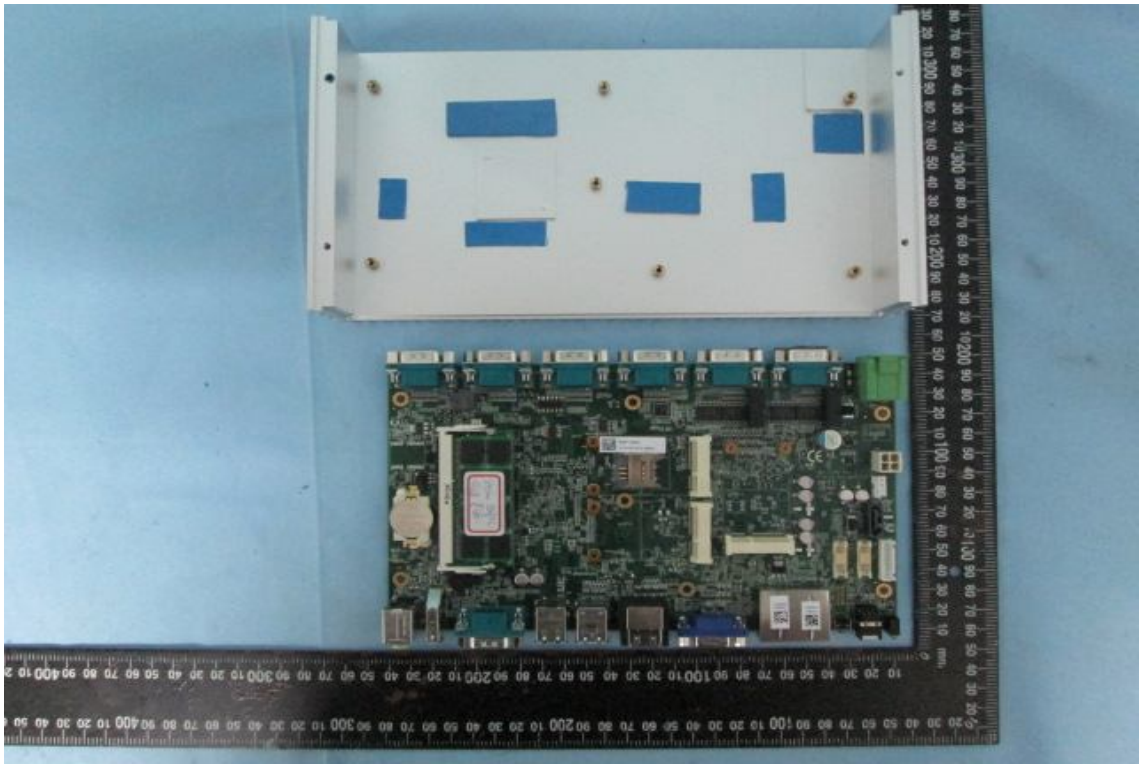
19. Inside view 1 of EUT



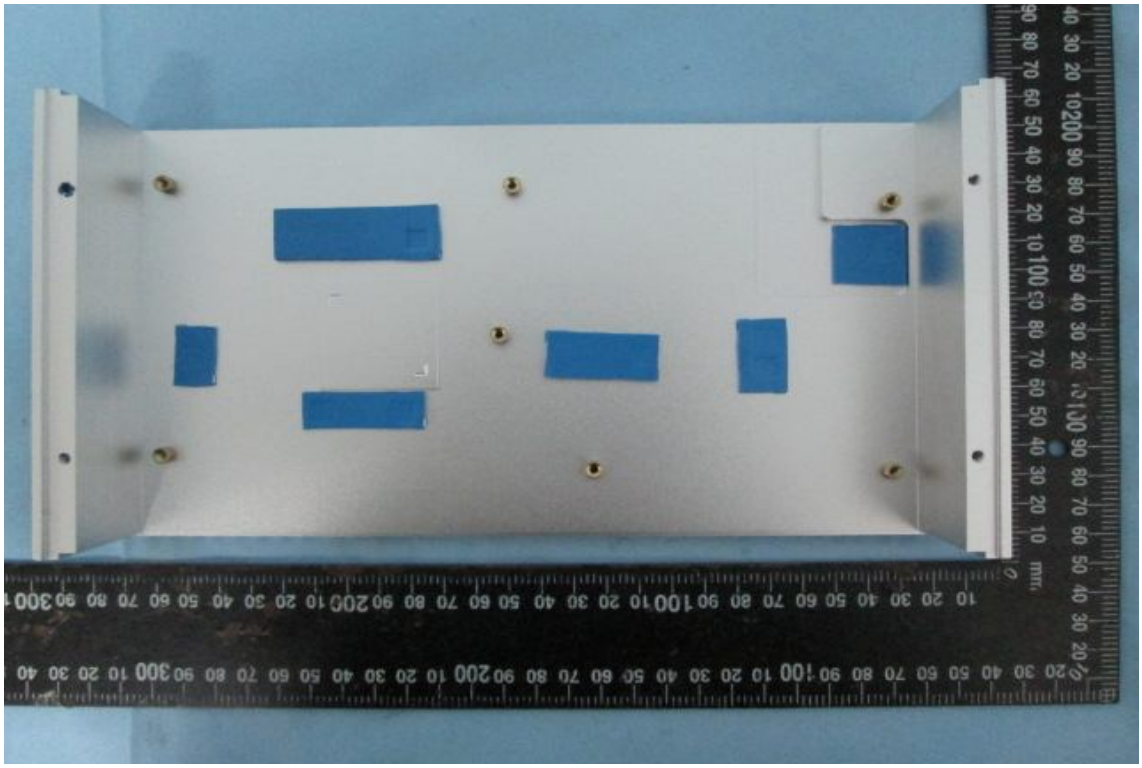
20. Inside view 2 of EUT



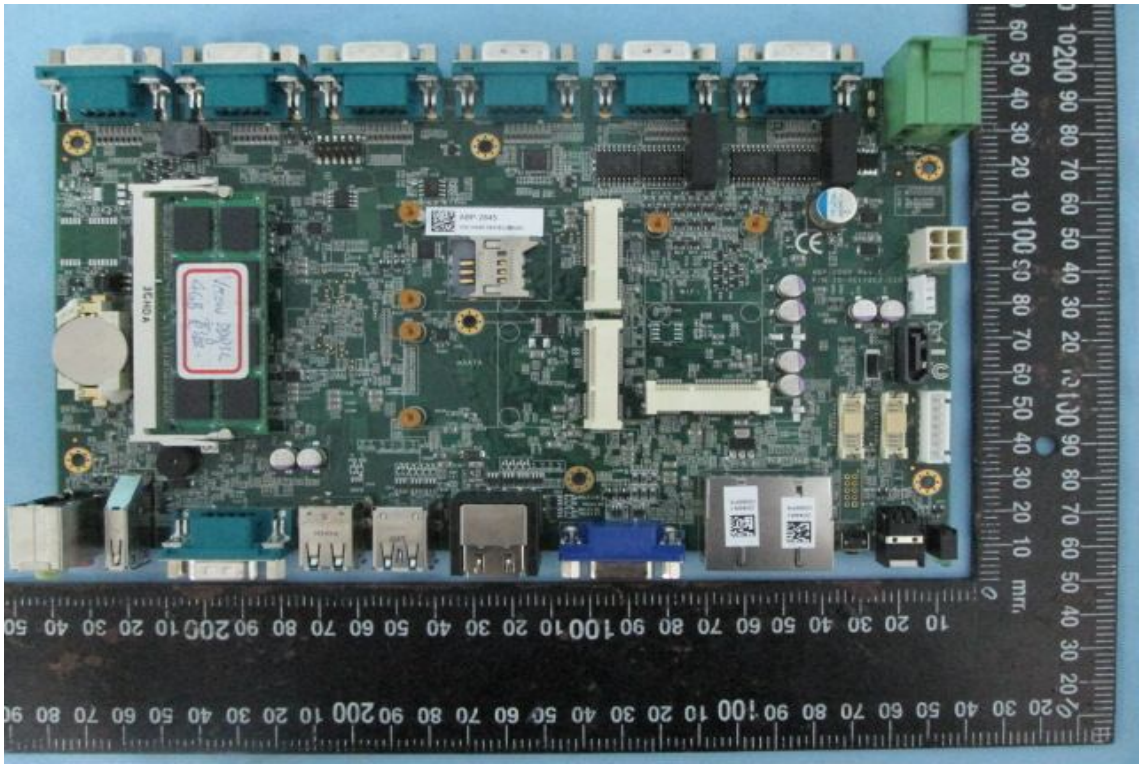
21. Inside view 3 of EUT



22. **Inside view 4 of EUT**



23. Inside view 5 of EUT



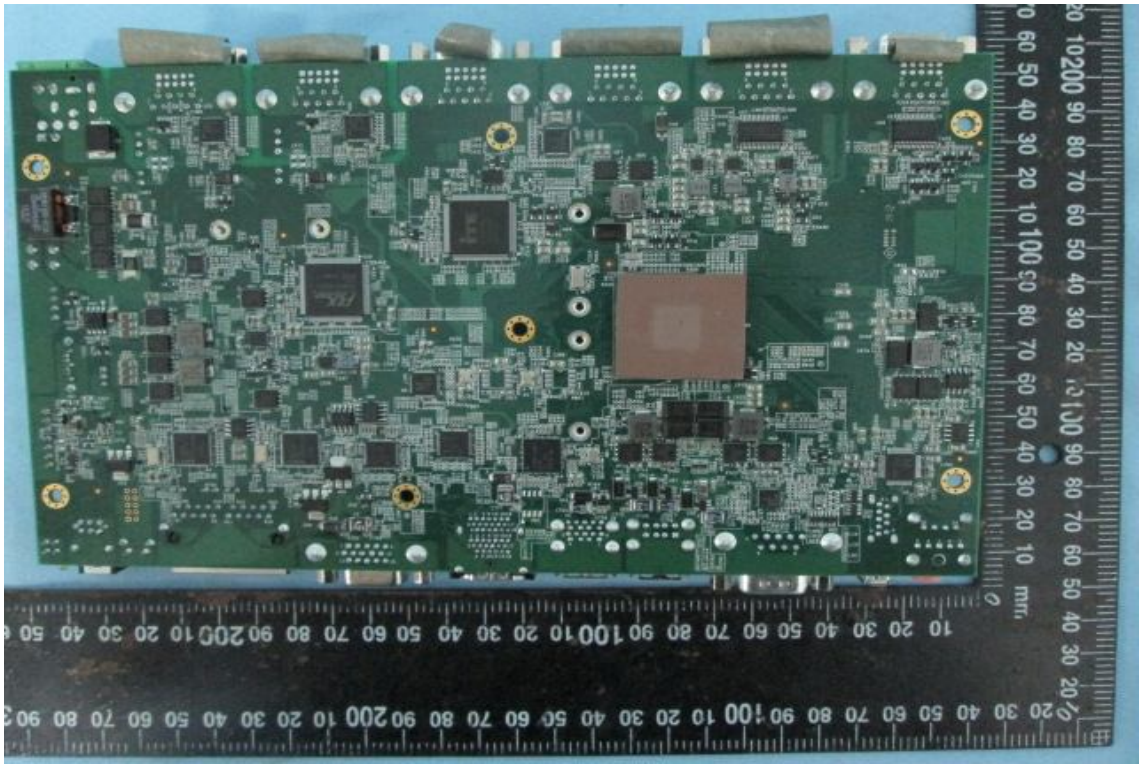
24. Inside view 6 of EUT

25. Inside view 7 of EUT

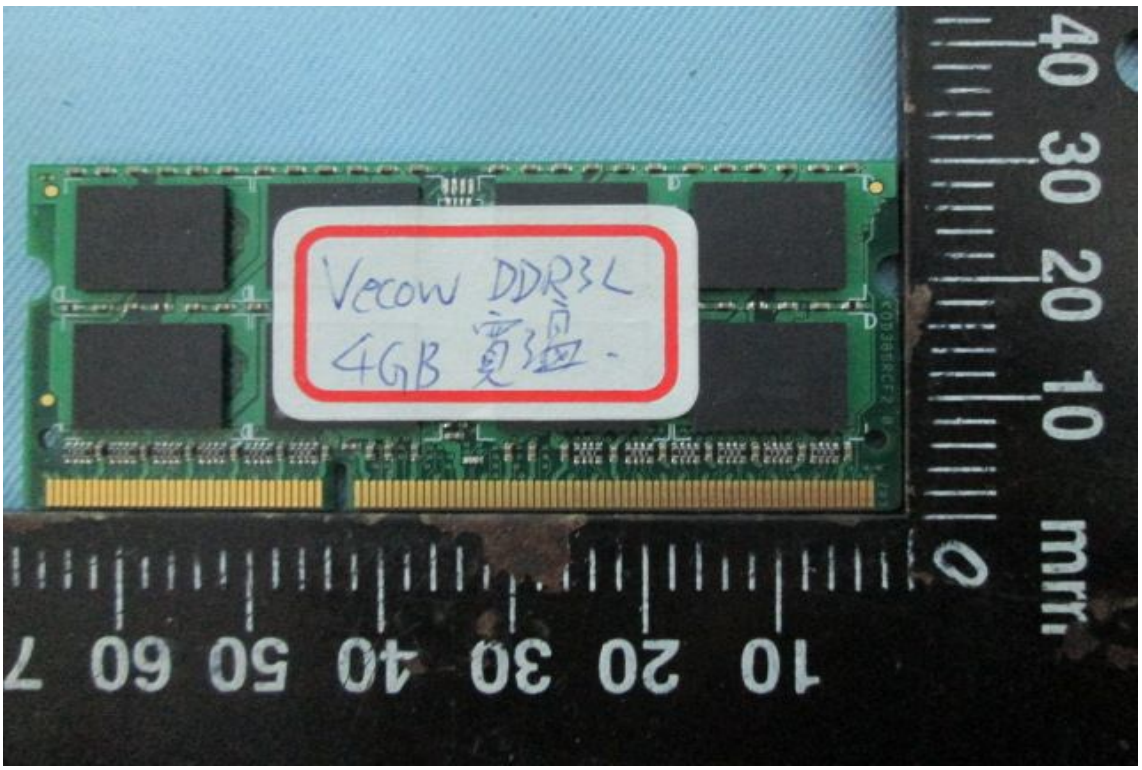
26. Inside view 7 of EUT

27. Front view of PCB 1

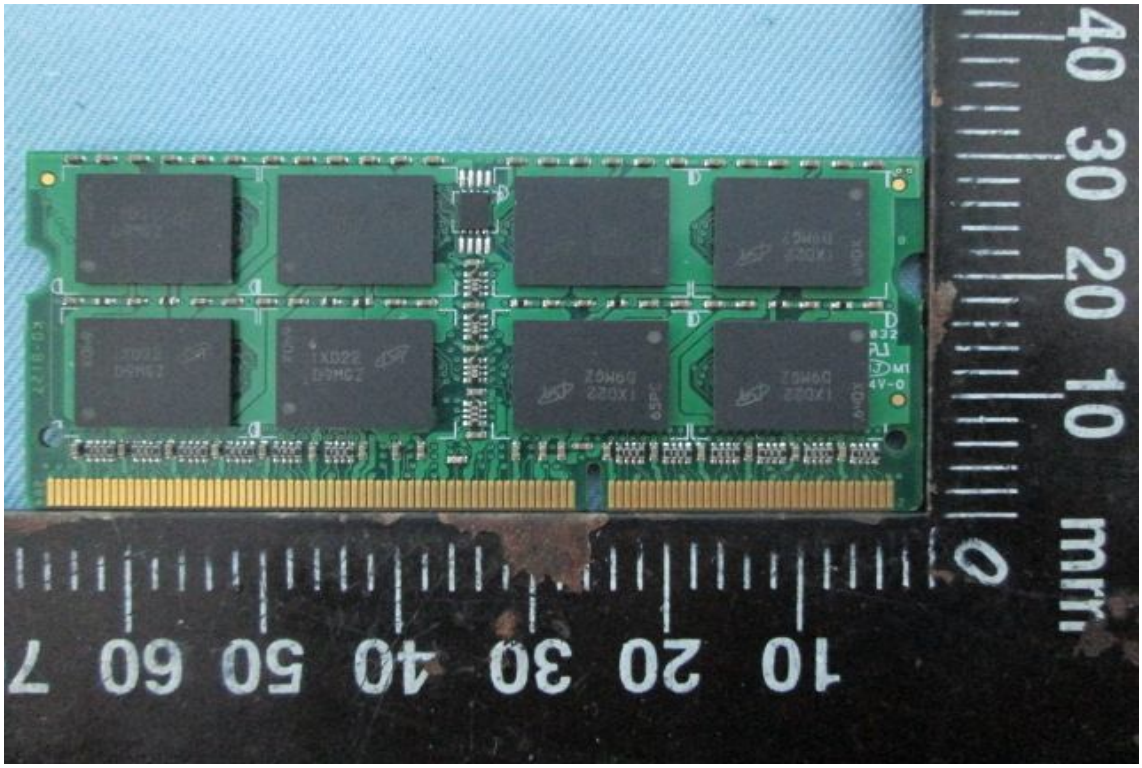
28. Rear view of PCB 1



29. Front view of PCB 2



30. Rear view of PCB 2



ANNEX B

DIFFERENCE INFORMATIONS OF SERIES MODEL

1. Test Model (Main Model): ABP-2845
2. Test Model (Series Model):
3. The Model without test (Series Model): Vecow ABP Series 、ABP-XXXX(X= 0~9, A~Z)

4. The Difference Information:

Model No. / Difference Item	Main Model:	Series Model:	Series Model
	ABP-2845	Vecow ABP Series	ABP-XXXX
PCB Layout and The Circuit Diagram	O	O	O
Components	O	O	O
Material	O	O	O
Function	Software 不同	Software 不同	Software 不同
Shape & Color	O	O	O
Other	O	O	O
Notes: (1) " O " means the item is same with Main model. (2) " X "means the item is different with main model. And please explain it.			

Remark: 1. The multiple listing recognized without test basis is according to information supplied by manufacturer.

2. The manufacturer or supplier's quality system shall ensure that the tested model or apparatus is representative of the series-produced apparatus concerned.

Manufacturer / Supplier

Company Name :Vecow

Signature : 2014.04.29

Name : William.Chen Date :2014/4/29