



**FCC 47 CFR PART 15 SUBPART B**

**TEST REPORT**

**For**

**Embedded Control PC**

**Model: AEC-6820B**

**Trade Name: AAEON**

Issued to

**AAEON Technology Inc.**

**5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City,  
Taipei, Taiwan, R.O.C.**

Issued by



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# 1 TEST RESULT CERTIFICATION

**Applicant:** **AAEON Technology Inc.**  
5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City,  
Taipei, Taiwan, R.O.C.

**Manufacturer:** **AAEON Technology Inc.**  
5F, No. 135, Lane 235, Pao Chiao Rd., Hsin-Tien City,  
Taipei, Taiwan, R.O.C.

**Equipment Under Test:** Embedded Control PC

**Trade Name:** AAEON

**Model:** AEC-6820B

**Detailed EUT Description:** See Item 2 of this report

**Date of Test:** December 27, 2005 & December 28, 2005

Applicable Standard	Class / Limit	Test Result
FCC Part 15 Subpart B IC ICES-003	Class B	No non-compliance noted
<b>Deviation from Applicable Standard</b>		
None		

The above equipment was tested by Compliance Certification Services Inc. for compliance with the requirements set forth in the FCC Rules and Regulations Part 15, Subpart B and the measurement procedures were according to ANSI C63.4. This said equipment in the configuration described in this report shows the maximum emission levels emanating from equipment are within the compliance requirements.

**Approved by:**

**Reviewed by:**

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Rick Yeo  
Manager of Hsintien Laboratory  
Compliance Certification Services Inc.

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Vince Chiang  
Assistant Manager of Hsintien Laboratory  
Compliance Certification Services Inc.



## 2 EUT DESCRIPTION

<b>Product</b>	Embedded Control PC
<b>Trade Name</b>	AAEON
<b>Model</b>	AEC-6820B
<b>Housing Type</b>	Metal case
<b>EUT Power Rating</b>	12VDC from AC Adaptor
<b>AC Power During Test</b>	120VAC / 60 Hz to AC Adaptor
<b>AC Adaptor Manufacturer</b>	FSP GROUP INC.
<b>AC Adaptor Model Number</b>	FSP036-1AD101C
<b>Power Adaptor Power Rating</b>	I/P: 100-240VAC~, 50Hz-60Hz O/P: 12VDC
<b>AC Power Cord Type</b>	Unshielded, 1.8m (Detachable) to AC Adaptor
<b>DC Power Cord Type</b>	Unshielded, 1.2m (Non-detachable, with a core) to AC Adaptor
<b>OSC/Clock Frequencies</b>	32.768KHz; 14.31818MHz; 25MHz; 24.576MHz

### I/O PORT OF EUT

I/O PORT TYPE		Q'TY	TESTED WITH
1).	PIO port	1	1
2).	SIO port	2	2
3).	PS/2 one to two adaptor	1	1
4).	Video out port (VGA)	1	1
5).	Audio in port	1	1
	Microphone port	1	1
	Earphone port	1	1
6).	LAN port	1	1
7).	USB port	4	4

*Note: Client consigns only one model sample (Model Number is AEC-6820B) to test.*



### 3 TEST METHODOLOGY

#### 3.1 EUT SYSTEM OPERATION

1. Windows XP boots system.
2. Run Emctest.exe to activate all peripherals and display “H” pattern on monitor screen.
3. Run Winemc.exe and choose “E:/ & F:/ & G:/ & H:/” to test EUT.
4. Run Winemc.exe and choose media player to play music.
5. Press the start menu, select executive and type ping 192.168.0.2 -t (EUT), ping 192.168.0.1 -t (Server Notebook).

*Note: Test program is self-repeating throughout the test.*

#### 3.2 DECISION OF FINAL TEST MODE

1. The following test mode(s) were scanned during the preliminary test:

**Conduction(s):**

1.	1280X1024, VF=60Hz
2.	1024X768, VF=70Hz
3.	800X600, VF=75Hz

**Radiation(s):**

1.	1280X1024, VF=60Hz
	1280X1024, VF=60Hz / 1-5GHz
2.	1024X768, VF=70Hz
3.	800X600, VF=75Hz

2. After the preliminary scan, the following test mode was found to produce the highest emission level.

**Conduction:** Mode 1

**Radiation:** Mode 1

Then, the EUT configuration and cable configuration of the above highest emission mode was recorded for all final test items.



## 4 SETUP OF EQUIPMENT UNDER TEST

### Setup Diagram

See test photographs attached in Appendix I for the actual connections between EUT and support equipment.

### Support Equipment

#### EUT Devices:

No	Equipment	Model #	Serial #	FCC ID/ BSMI ID	Trade Name
1.	CPU (1.0GHz)	C3	N/A	N/A	VIA
2.	Memory (256MHz / PC-133)	HY57V56820CT-H	N/A	N/A	Hynix
3.	HDD (20Gbytes)	MHT2020AT	N/A	N/A	FUJITSU
4.	Power Adaptor	FSP036-1AD101C	N/A	N/A	FSP GROUP INC.
5.	Motherboard	GENE-6310	N/A	N/A	AAEON
6.	Power Board	E102	N/A	N/A	AAEON

#### Peripherals Devices:

No	Equipment	Model	Serial No.	FCC/BSMI ID	Trade Name	Data Cable	Power Cord
1	Earphone / Microphone	MSB301	N/A	N/A	e-Sense	Unshielded, 1.8m	N/A
2	Player	RQ-L11LT	N/A	BSMI ID: 3912A162	Panasonic	Unshielded, 1.8m	N/A
3	PS/2 Mouse	M071KC	443029438	DOC BSMI: R41108	DELL	Shielded, 1.8m	N/A
4	PS/2 Keyboard	SK-8110	N/A	DOC BSMI: T3A002	DELL	Shielded, 1.8m	N/A
5	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
6	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
7	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
8	USB 2.0 HDD	F12-U	N/A	BSMI ID: 4912A002	TeraSys	Shielded, 1.8m	N/A
9	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP-SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
10	Modem	5JEG4033MKO	N/A	5RJTAI-35500-M5-E	TOP-SOLUTION	Shielded, 1.8m	Unshielded, 1.8m
11	Monitor	710V	GS17H9NXA05853A	DOC BSMI: R33475	SAMSUNG	Shielded, 1.8m with two cores	Unshielded, 1.8m
12	Printer	C60	N/A	BSMI ID: 3902E006	EPSON	Shielded, 1.8m	Unshielded, 1.8m
13	Server Notebook	2659-FT1	AK-VHXOH 02/10 C	ANOPSIWLIV	IBM	Unshielded, 20m	Unshielded, 1.8m

**Note:** All the above equipment/cables were placed in worse case positions to maximize emission signals during emission test.

**Grounding:** Grounding was in accordance with the manufacturer's requirements and conditions for the intended use.

## 5 FACILITIES AND ACCREDITATIONS

### 5.1 FACILITIES








All measurement facilities used to collect the measurement data are located at CCS Taiwan Hsintien Lab at No. 165&199, Chunghsen Road, Hsintien City, Taipei Hsien, Taiwan.

The measurement facilities are constructed in conformance with the requirements of CISPR 16-1, ANSI C63.4 and other equivalent standards.

### 5.2 LABORATORY ACCREDITATIONS AND LISTINGS

The test facilities used to perform Electromagnetic compatibility tests are registered or accredited by the organizations listed in the following table which includes the recognized scope specifically.

This accredited organization maintains A2LA accreditation to ISO/IEC 17025 for the specific test listed in A2LA Certificate # 0824-01. The test results included in this report, however, are not covered by this accreditation.

Country	Agency	Scope of Accreditation	Logo
USA	A2LA	CFR 47, FCC Part 15/18; AS/NZS 3548; VCCI V3; CNS 13438; CNS 13439; CNS 13783; CNS 14115; CISPR 11/EN 55011; CISPR 14-1/EN 55014-1; CISPR 15/EN 55015; CISPR 22/EN 55022; EN 50081-1/EN 61000-6-3; EN 50082-1/EN 61000-6-4; IEC/EN 61000-4-2, IEC/EN 61000-4-3, IEC/EN 61000-4-4, IEC/EN 61000-4-5, IEC/EN 61000-4-6, IEC/EN 61000-4-8, IEC/EN 61000-4-11, IEC/EN 61000-3-2, IEC/EN 61000-3-3; CISPR 24/EN 55024; CISPR 14-2/EN 55014-2; EN 50081-2/EN 61000-6-1; EN 50082-2/EN 61000-6-2.	 ACCREDITED 824.01
USA	FCC	3/10 meter Open Area Test Sites to perform FCC Part 15/18 measurements	 250366
Japan	VCCI	3/10 meter Open Area Test Sites and Line Conducted Test Room to perform conducted/radiated measurements	 R-1434/1630~4 C-1511/1882
Norway	NEMKO	EN 50081-1/2, EN 50082-1/2, IEC 61000-6-1/2/3/4, EN 50091-2, EN 50130-4, EN 55011, EN 55013, EN 55014-1/2, EN 55015, EN 55022, EN 55024, EN 61000-3-2/3, EN 61326-1, IEC 61000-4-2/3/4/5/6/8/11, Cisp16-1/2/3/4	 ELA 103
Taiwan	CNLA	47 CFR FCC Part 15 Subpart B, EN 61000-3-2, EN 61000-3-3, CNS 13439, CNS 13783-1, CNS 13438, AS/NZS 3548, VCCI, CNS 13022-1/2/3, EN 55022, EN 55013, EN 55014-1, EN 61000-4-2/3/4/5/6/8/11, ENV 50204, ENV 50141, ENV 50142	
Taiwan	BSMI	CNS 13438, CNS 13783-1, CNS 13439	 SL2-IN-E-0005 SL2-A1-E-0005 SL2-R1-E-0005 SL2-R2-E-0005
Canada	Industry Canada	RSS212, Issue 1	

**Note:** No part of this report may be used to claim or imply product endorsement by CNLA, A2LA or other government agency.



## 6 INSTRUMENT AND CALIBRATION

### 6.1 MEASURING INSTRUMENT CALIBRATION

The measuring equipment utilized to perform the tests documented in this report has been calibrated once a year or in accordance with the manufacturer's recommendations, and is traceable to recognized national standards.

### 6.2 TEST AND MEASUREMENT EQUIPMENT

The following list contains measurement equipment used for testing. The equipment conforms to the requirement of CISPR 16-1, ANSI C63.2 and other equivalent standards.

Calibration of all test and measurement, including any accessories that may effect such calibration, is checked frequently to ensure the accuracy. Adjustments are made and correction factors are applied in accordance with the instructions contained in the respective manual.

#### Equipment Used for Emission Measurement

Open Area Test Site # I				
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE
SITE NSA	CCS	I Site	N/A	10/14/2006
MEASURE RECEIVER	SCHAFFNER	SCR3501	338	06/27/2006
SPECTRUM ANALYZER	ADVANTEST	R3132	120900008	No Calibration Required
ANTENNA	SCHAFFNER	CBL 6112B	2809	09/23/2006
AMPLIFIER	SCHAFFNER	CPA9231A	3626	10/08/2006
CABLE	BELDEN	9913	N-TYPE #12	02/18/2006
ATTENUATOR	MCL	UNAT-6	AT06-3	10/08/2006
THERMO-HYGRO METER	TFA	N/A	NO.2	11/02/2006
Above 1GHz Used				
EMC ANALYZER (100Hz-22GHz)	HP	8566B	2937A06102	06/30/2006
ANTENNA (1-18GHz)	EMCO	3115	5761	01/17/2006
AMPLIFIER (1-18GHz)	HP	8449B	3008A01266	02/16/2006
CABLE (1-18GHz)	JYEBAO	LL142	SMA#RS1&2	02/16/2006
CABLE (1-18GHz)	JYEBAO	LL142	SMA#C1	04/28/2006

*Note: The measurement uncertainty is less than +/- 3.36dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.*





Conducted Emission Test Site # B				
EQUIPMENT	MFR	MODEL	SERIAL NUMBER	CAL. DUE
TEST RECEIVER	R&S	ESHS10	843743/015	03/31/2006
LISN (EUT)	EMCO	3825/2	9106-1810	01/16/2006
LISN	EMCO	3825/2	1382	01/16/2006
BNC CABLE	MIYAZAKI	5D-FB	BNC B1	07/14/2006
Pulse Limiter	R&S	ESH3-Z2	100374	08/25/2006
THERMO-HYGRO METER	TOP	HA-202	9303-3	03/02/2006

*Note: The measurement uncertainty is less than +/- 2.83dB, which is evaluated as per the NAMAS NIS 81 and CISPR/A/291/CDV.*

## 7 LINE CONDUCTED & RADIATED EMISSION TEST

### 7.1 LIMIT

#### Maximum permissible level of Line Conducted Emission

FREQUENCY (MHz)	Class A (dBuV)		Class B (dBuV)	
	Quasi-peak	Average	Quasi-peak	Average
0.15 - 0.5	79	66	66 - 56	56 - 46
0.50 - 5.0	73	60	56	46
5.0 - 30.0	73	60	60	50

*Note: The lower limit shall apply at the transition frequency.*

#### Maximum permissible level of Radiated Emission measured at 10 meter

FREQUENCY (MHz)	Class A (dBuV/m)	Class B (dBuV/m)
	Quasi-peak	Quasi-peak
30 – 230	40	30
230 - 1000	47	37

*Note: The lower limit shall apply at the transition frequency.*

#### Maximum permissible level of Radiated Emission measured at 3 meter

FREQUENCY (MHz)	Class A (dBuV/m)		Class B (dBuV/m)	
	Average	Peak	Average	Peak
Above 1000	59.3	79.3	53.9	73.9

*Note: The lower limit shall apply at the transition frequency.*



## 7.2 TEST PROCEDURE OF LINE CONDUCTED EMISSION

### Procedure of Preliminary Test

- The EUT was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden table with a height of 0.8 meters is used and is placed on the ground plane as per ANSI C63.4 (see Test Facility for the dimensions of the ground plane used). When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical actual usage as per ANSI C63.4.
- The test system with EUT received AC power, 120V/60Hz, through a Line Impedance Stabilization Network (LISN), which supplied power source and was grounded to the ground plane.
- All support equipment received power from a second LISN.
- The EUT test program was started. Emissions were measured on each current carrying line of the EUT using a EMI Test Receiver connected to the LISN powering the EUT. The LISN has two monitoring points: Line 1 (Hot Side) and Line 2 (Neutral Side). Two scans were taken: one with Line 1 connected to the Receiver and Line 2 connected to a 50 ohm load; the second scan had Line 1 connected to a 50 ohm load and Line 2 connected to the Receiver.
- The Receiver scanned from 150kHz to 30MHz for emissions in each of the test modes.
- During the above scans, the emissions were maximized by cable manipulation.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test.
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT configuration and cable configuration of the above highest emission level were recorded for reference of the final test.



**Procedure of Final Test**

- EUT and support equipment were set up on the test bench as per step 10 of the preliminary test.
- A scan was taken on both power lines, Line 1 and Line 2, recording at least the six highest emissions. Emission frequency and amplitude were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit. If EUT emission level was less -2dB to the AV. limit in Q.P. mode, then the emission signal was re-checked using an AV. detector.
- The test data of the worst-case condition(s) was recorded.

**Data Sample:**

Freq. MHz	Read Level dBuV	Factor dB	Level dBuV	Limit dBuV	Over Limit dB	Reading Type (P/Q/A)	Line (L1/L2)
x.xx	42.95	0.55	43.50	56	-12.50	Q	L1

- Freq. = Emission frequency in MHz
- Read Level = Uncorrected Analyzer/Receiver reading
- Factor = Insertion loss of LISN + Cable Loss
- Level = Read Level + Factor
- Limit = Limit stated in standard
- Over Limit = Reading in reference to limit
- P = Peak Reading
- Q = Quasi-peak Reading
- A = Average Reading
- L1 = Hot side
- L2 = Neutral side

**Calculation Formula**

Over Limit (dB) = Level (dBuV) – Limit (dBuV)



## 7.3 TEST PROCEDURE OF RADIATED EMISSION

### Procedure of Preliminary Test

- The equipment was set up as per the test configuration to simulate typical usage per the user's manual. When the EUT is a tabletop system, a wooden turntable with a height of 0.8 meters is used which is placed on the ground plane. When the EUT is a floor-standing equipment, it is placed on the ground plane which has a 3-12 mm non-conductive covering to insulate the EUT from the ground plane.
- Support equipment, if needed, was placed as per ANSI C63.4.
- All I/O cables were positioned to simulate typical usage as per ANSI C63.4.
- The EUT received AC power source, 120V/60Hz, from the outlet socket under the turntable. All support equipment received power from another socket under the turntable.
- The antenna was placed at 10 meter away from the EUT as stated in ANSI C63.4. The antenna connected to the Spectrum Analyzer via a cable and at times a pre-amplifier would be used.
- The Analyzer / Receiver quickly scanned from 30MHz to 5000MHz. The EUT test program was started. Emissions were scanned and measured rotating the EUT to 360 degrees and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- The test mode(s) described in Item 3.2 were scanned during the preliminary test:
- After the preliminary scan, we found the test mode described in Item 3.2 producing the highest emission level.
- The EUT and cable configuration, antenna position, polarization and turntable position of the above highest emission level were recorded for the final test.



**Procedure of Final Test**

- EUT and support equipment were set up on the turntable as per step 8 of the preliminary test.
- The Analyzer / Receiver scanned from 30MHz to 5000MHz. Emissions were scanned and measured rotating the EUT to 360 degrees, varying cable placement and positioning the antenna 1 to 4 meters above the ground plane, in both the vertical and the horizontal polarization, to maximize the emission reading level.
- Recorded at least the six highest emissions. Emission frequency, amplitude, antenna position, polarization and turntable position were recorded into a computer in which correction factors were used to calculate the emission level and compare reading to the applicable limit and only Q.P. reading is presented.
- The test data of the worst case condition(s) was recorded.

**Data Sample:**

Freq. MHz	Read Level dBuV	Factor dB/m	Level dBuV/m	Limit dBuV/m	Over Limit dB	Reading Type (P/Q/A)	Pol. (H/V)
x.xx	14.0	12.2	26.2	30	-3.8	Q	H

- Freq. = Emission frequency in MHz
- Read Level = Uncorrected Analyzer/Receiver reading
- Factor = Antenna Factor + Cable Loss + Attenuator (3/6/10dB) – Amplifier Gain
- Level = Read Level + Factor
- Limit = Limit stated in standard
- Over Limit = Reading in reference to limit
- P = Peak Reading
- Q = Quasi-peak Reading
- A = Average Reading
- H = Antenna Polarization: Horizontal
- V = Antenna Polarization: Vertical

**Calculation Formula**

Over Limit (dB) = Level (dBuV/m) – Limit (dBuV/m)



### 7.4 TEST RESULTS

#### Line Conducted Emission

**Model:** AEC-6820B

**Test Mode:** Mode 1

**Temperature:** 22°C

**Humidity:** 40% RH

**Test Results:** Passed

**Tested by:** Matt Hsu

(The chart below shows the highest readings taken from the final data.)

Six Highest Conducted Emission Readings							
Frequency Range Investigated				150 kHz to 30 MHz			
Freq (MHz)	Read Level (dBuV)	Factor (dB)	Level (dBuV)	Limit Line (dBuV)	Over Limit (dB)	Reading Type (P/Q/A)	Line (L1/L2)
0.177	36.53	9.98	46.51	64.64	-18.13	P	L1
0.471	28.60	9.96	38.56	56.49	-17.93	P	L1
13.841	30.15	10.46	40.61	60.00	-19.39	P	L1
0.179	36.65	9.98	46.62	64.55	-17.92	P	L2
4.598	26.78	10.08	36.86	56.00	-19.14	P	L2
13.267	30.83	10.42	41.25	60.00	-18.75	P	L2

*NOTE: The emission level was or more than 2dB below the Average limit, so no re-check anymore.*



**Radiated Emission**

**Model:** AEC-6820B

**Test Mode:** Mode 1

**Temperature:** 20°C

**Humidity:** 42% RH

**Test Results:** Passed

**Tested by:** Elvis Zeng

(The chart below shows the highest readings taken from the final data.)

<b>Six Highest Radiated Emission Readings</b>							
<b>Frequency Range Investigated</b>				<b>30 MHz to 1000 MHz at 10m</b>			
<b>Freq (MHz)</b>	<b>Read Level (dBuV)</b>	<b>Factor (dB/m)</b>	<b>Level (dBuV/m)</b>	<b>Limit Line (dBuV/m)</b>	<b>Over Limit (dB)</b>	<b>Reading Type (P/Q/A)</b>	<b>Pol. (H/V)</b>
<b>67.270</b>	<b>39.80</b>	<b>-15.46</b>	<b>24.34</b>	<b>30.00</b>	<b>-5.66</b>	<b>Q</b>	<b>V</b>
<b>132.920</b>	<b>36.40</b>	<b>-9.54</b>	<b>26.86</b>	<b>30.00</b>	<b>-3.14</b>	<b>Q</b>	<b>V</b>
<b>366.080</b>	<b>38.90</b>	<b>-4.99</b>	<b>33.91</b>	<b>37.00</b>	<b>-3.09</b>	<b>Q</b>	<b>V</b>
<b>664.660</b>	<b>30.70</b>	<b>0.25</b>	<b>30.95</b>	<b>37.00</b>	<b>-6.05</b>	<b>Q</b>	<b>V</b>
<b>65.750</b>	<b>39.60</b>	<b>-15.44</b>	<b>24.16</b>	<b>30.00</b>	<b>-5.84</b>	<b>Q</b>	<b>H</b>
<b>132.956</b>	<b>36.50</b>	<b>-9.54</b>	<b>26.96</b>	<b>30.00</b>	<b>-3.04</b>	<b>Q</b>	<b>H</b>

*NOTE: 30M to 1000M test is Applicable CISPR 22 / EN 55022 standard.*

## APPENDIX I - PHOTOGRAPHS OF TEST SETUP

### LINE CONDUCTED EMISSION TEST





## RADIATED EMISSION TEST

