

# AEC-6625

## Fan-less Embedded controller with Intel Core i5/i7 P5 Verification Test Report

Summary	<input checked="" type="checkbox"/> Pass			
	<input type="checkbox"/> Fail			
	<input type="checkbox"/> Pass with Deviation			
	Comment: _____			
Test Result Summary				
	Critical	Major	Minor	Enhancement
Defect Found	0	0	0	0
Defect Unsolved	0	0	0	0

Issue date	Approval	Test Engineer
2011/03/04	Jansin Lee	Leo Liu

## Test Suites Overall Results Summary

No.	Test Category	Test Results
1	Modular System Function Test	PASS
2	Basic Function Test	PASS
3	Integration Test	PASS
4	Application Test	PASS
5	Power Consumption Test	PASS
6	Time Accuracy Test	PASS
7	O.S. Compatibility Test	PASS
8	BIOS Test	PASS
9	Performance Test	PASS

## Platform Information

Item	Device Information	Test Item
PCB Model / Version	AEC-6625 A0.2	1,2,3,4,5,6,7,8,9
CPU Board	EPIC-QM57 A1.0	1,2,3,4,5,6,7,8,9
Carrier Board	N/A	
BIOS / Version	AEC-6625 1.0(01/06/2011)	1,2,3,4,5,6,7,8,9
CPU Type	Intel Celeron P4500 1.87GHz(133x14)	1,2,3,4,5,6,7,8,9
Memory Type	DSL DDR3-1066 2GB(ELPIDA J1108BDSE-DJ-F)	1,2,3,4,5,6,7,8,9
SATA HDD	TOSHIBA 2.5" 160GB(MK1665GSX)	1,2,3,4,5,6,7,8,9
SATA DVD-ROM	N/A	
USB DVD-ROM	ASUS 16X(DRW-1604P-D/WHT/G/ASUS)	1,2,3,4,5,6,7,8,9
LCD Monitor	DELL 17"(E178FPc)	1,2,3,4,5,6,7,8,9
LVDS	N/A	
Compact Flash	N/A	
Daughter Board	N/A	
Expansion Board	N/A	
	N/A	
Operating System	<input checked="" type="checkbox"/> Fedora Core 13 Kernel 2.6.33.3	7-1
	<input checked="" type="checkbox"/> Windows 7 Ultimate 32/64Bit	7-2
	<input checked="" type="checkbox"/> Windows XP Professional English SP3 32/64 Bit	7-3
Power Supply	ATX Power Supply : N/A	
	AT Power Supply: N/A	
	DC Adapter : FSP 12V(FSP084-DMAA1)	1,2,3,4,5,6,7,8,9
Battery Model	N/A	
<b>Chipset Information with XP Professional English SP3 32 Bit Driver Version</b>		
Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1020(2009/08/26)	
North Bridge	Intel Arrandale	
South Bridge	lbex peak M PCH	
Super IO Chipset	ITE8781F	
VGA Chipset	Intel(R)GMA HD 6.14.10.5179(2009/11/9)	
Audio Chipset	VIA VT1708B 6.0.1.7300 (2009/07/10)	
Ethernet Chipset	Intel(R)82577LM Gigabit 11.2.19.0(2009/09/23)	
	Intel(R)82574L Gigabit 11.1. 6.0(2009/07/13)	

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There are 3 test results in this document; they are described as follows:

**Pass:** Function worked perfectly

**Fail:** Function failed and must be modified in the next version

**N/A:** Outside of specifications or no test equipment

The test report would be tested and updated after version changed.

● Version Released Records

Date	Version	Item	Note
2010/04/21	P3-1001	1. 調整文字表格前後對齊 2. Modify 新版首頁	
2010/06/01	P2P3-1001	1. New Test Report	
2010/06/21	P2P3-1002	1. Add BIOS -> SPI ROM Setting (South Bridge – GPIO)	
2010/09/02	P2P2-1003	1. Modify All Test Items	

# 1. Modular System Function Test

## 1-1. Modular System Industrial Workstation Function Test

Test Item	Result			Note
	Pass	Fail	N/A	
DC power outlet / inlet	X			
Power On / Off	X			
Power LED	X			
H.D.D LED	X			
CD-ROM drive included			X	
Floppy drive included			X	
Lockable front-panel door			X	
Finger mouse			X	
59 Data-entry&20/24 Function keys			X	

## 1-2. Mechanism construction check

Test Item	Result			Note
	Pass	Fail	N/A	
Case construction check	X			
PCMCIA construction check			X	
CF Card construction check			X	Please check both ( Type I and Type II )
I/O Port connector check	X			Serial port / PS2 connector
USB connector check	X			
Component check	X			

## 2. Basic Function Test

### 2-1. Video Function Test

#### 2-1.1. Single Output Function Test

Note: Pay attention with Full Screen under POST screen and Text Mode.										
Interface	AEC-6625									
VGA	CHIMEI 22SH-L									
DVI	CHIMEI 22SH-L									
TV	N/A									
LVDS	N/A									
Color Quality	[ X ] 16bit [ ] 24bit [ X ] 32bit									
Resolution	VGA			DVI			LVDS			Note
	Pass	Fail	N/A	Pass	Fail	N/A	Pass	Fail	N/A	
640X480			X			X			X	
800X600	X			X					X	
1024X768	X			X					X	
1152X864			X			X			X	
1280X600			X			X			X	
1280X720			X			X			X	
1280X768			X			X			X	
1280X960			X			X			X	
1280X1024			X			X			X	
1366X768	X			X					X	
1600X900			X			X			X	
1600X1200			X			X			X	
1600X1050			X			X			X	
1792X1344			X			X			X	
1856X1392			X			X			X	
1920X1080	X			X					X	
1920X1200			X			X			X	
1920X1440			X			X			X	
2048X1536			X			X			X	
Rotation	X			X					X	Rotation ( 0 / 90 /180 /270)

#### 2-1.2. Dual Output Function Test

Selection	Output	Result			Note
		Pass	Fail	N/A	
Dual Display Clone	VGA + DVI	X			
Dual Display Twin				X	
Extended Desktop		X			
Dual Display Clone	VGA + LVDS			X	
Dual Display Twin				X	
Extended Desktop				X	

### 2-1.3. Video Resolution Test

Test points:

1. Power on without inserting any VGA connector until system reaches Windows desktop
2. Plug VGA connector into test machine while system reaches Windows then check VGA driver and display
3. Check VGA output Brightness is normal and it shows "Ghost Image" / "Flicker" or not

	Result			Note
	Pass	Fail	N/A	
In Windows Desktop	X			







### 2-2. Audio Function Test

No Support

Function Test	Result			Note
	Pass	Fail	N/A	
L (Left) Channel	X			
R (Right) Channel	X			
Line In	X			
MICROPHONE			X	
S/P DIF function Test	Input		X	
	Output		X	

### 2-3. LAN Function Test

No Support

1000MBps LAN HUB		D-Link DGS-1008D								
100MBps LAN HUB		HP J4095A 24 Ports								
10MBps LAN HUB		SVEC FD916H								
OnBoard LAN1		Intel® Gigabit CT Desktop Adapter					MAC Address		00-07-32-16-19-F9	
OnBoard LAN2		Intel® 82577LM Gigabit Network Connection					MAC Address		00-07-32-16-19-F8	
LAN Speed	Link / Active LED	Speed LED	LAN 1			LAN 2			Note	
			Pass	Fail	N/A	Pass	Fail	N/A		
1000MBps			X			X				
100MBps			X			X				
10MBps			X			X				
Wake On LAN			X			X				
Boot ROM to Novell 4.11 [RPL]					X			X		
LAN Boot (PXE)			X			X				
Internet Browser (DHCP Server)			X			X				

2-3.2. SmartBits Test

**DUT Platform Information:**

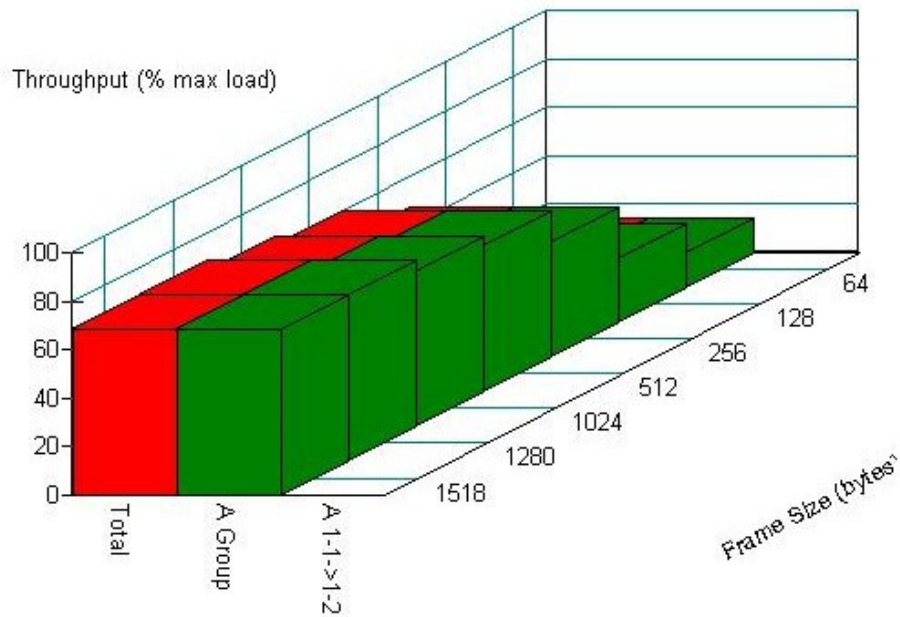
Graphics Media	Fedora Core 14 Default setting
LAN	LAN1→Intel®Gigabit CT Desktop Adapter Ethernet: Fedora Core 14 1.0.2-K4 LAN2→Intel®82577LM Gigabit Ethernet: Fedora Core 14 1.0.2-K4
Audio Driver	Fedora Core 14 1.0.23.

**SMB Platform Information:**

Chassis	<b>SPIRENT Smartbits 600B</b>
Chassis Version	2.80.003 (Cur) 2.50.000
Chassis Serial #	06014047
Library	6.00-29
API	5.50.42.01
File	0550042
Module	2 * LAN-3324A SmartMetrics XD 4-Port 10/100/1000Base-T Gigabit Ethernet
Test Software	SmartFlow5.50.42.1

Test Result:

- Half Direction (LAN1: Intel®Gigabit CT Desktop Adapter 10/100/1G Ethernet → LAN2: Intel 82577LM 10/100/1G Ethernet)

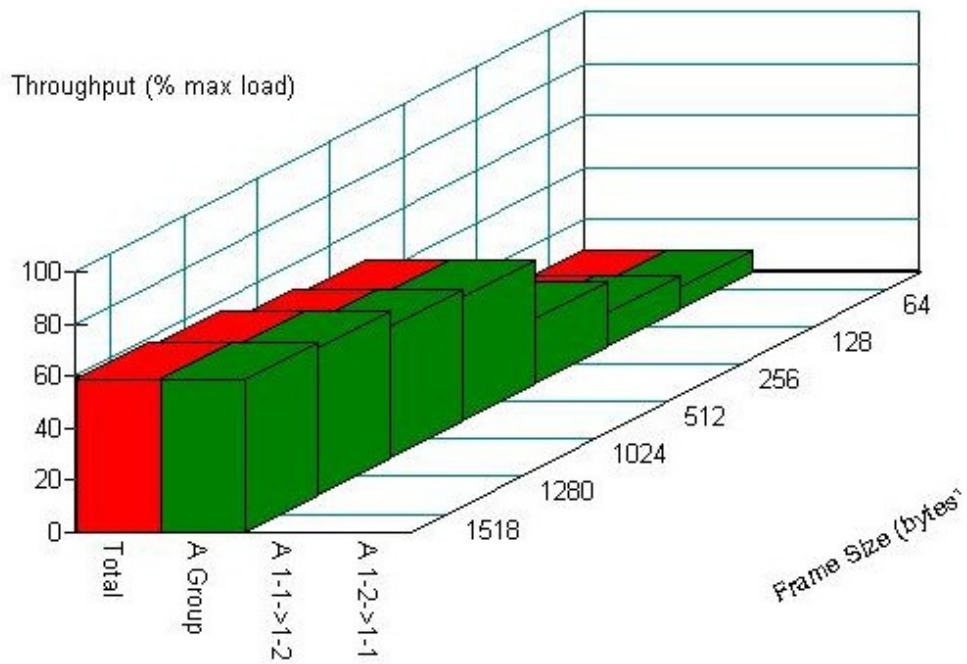


Throughput vs Frame Size

<u>Name/Framesize</u>	<u>64</u>	<u>128</u>	<u>256</u>	<u>512</u>	<u>1024</u>	<u>1280</u>	<u>1518</u>
<b>Total</b>	14.1484375	25.75	46.6328125	59.78125	63.6484375	68.2890625	68.2890625
<b>A Group</b>	14.1484375	25.75	46.6328125	59.78125	63.6484375	68.2890625	68.2890625
<b>A 1-1-&gt;1-2</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A



2. Binary Direction(LAN1:Intel®Gigabit CT Desktop Adapter 10/100/1G Ethernet → LAN2: Intel 82577LM10/100/1G Ethernet)



Throughput vs Frame Size

<u>Name/Frame size</u>	<u>64</u>	<u>128</u>	<u>256</u>	<u>512</u>	<u>1024</u>	<u>1280</u>	<u>1518</u>
<b>Total</b>	7.9609375	12.6015625	24.203125	46.6328125	49.7265625	55.9140625	58.234375
<b>A Group</b>	7.9609375	12.6015625	24.203125	46.6328125	49.7265625	55.9140625	58.234375
<b>A 1-1-&gt;1-2</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A
<b>A 1-2-&gt;1-1</b>	N/A	N/A	N/A	N/A	N/A	N/A	N/A

## 2-4. Others Function Test

No Support

Function Test	Result			Note
	Pass	Fail	N/A	
3G Module (.....)				
GPRS (.....)				
Wireless LAN (.....)				
Bluetooth (.....)				

## 3. Integration Test

### 3-1. USB Port Integration Test

Item	USB Port	Boot			Function(XP)			Note
		Pass	Fail	N/A	Pass	Fail	N/A	
USB HDD		X			X			
USB FDD Mitsumi D353GUE		X			X			
SONY USB2.0 DVD-R/W DRX-830UL		X			X			
USB Hub Test (Connect USB Device) HUB Port1: USB Keyboard / HUB Port2: USB Mouse / HUB Port3: USB HDD								
USB 2.0 HUB PowerSync / USB 2.0 4 Port HU-155					X			

### 3-2. Digital I/O Port Test

DIO Address ( ____ )	Result			Notes
	Pass	Fail	N/A	
DIO VCC +5V			X	

### 3-3. COM Port Integration Test

Test Item	Result			Notes
	Pass	Fail	N/A	
Serial Modem Dial Out	X			
Serial Modem	Ring In	X		Test by Modem
	+12V		X	Test by Multimeter
	+5V		X	Test by Multimeter
BurnIn Test V5.3 Pro	X			

### 3-4. RS-422 / RS-485 Test

Test Item	Result			Notes
	Pass	Fail	N/A	
RS-422 for COM2	X			Use loopback and WINSSD.exe to test RS-422 in Windows
RS-485 for COM2	X			Use ICP CON I-7044D D/IO Module in Windows(Support Auto flow control)
	X			The communication between the RS-485 pots of two boards is linked by one 100m cable on Windows Terminal

### 3-5. LPT Port Test

Test Item	Result			Notes
	Pass	Fail	N/A	
XEROX Phaser 3124 Laser Printer			X	

## 4. Application Test

### 4-1. PCI Slot Function (PCI Adapter Card) Test    No Support

PCI Card	Function			Note
	Pass	Fail	N/A	

### 4-2. PCI-Express Function Test    No Support

PCI-Express x1 (請自行修改 x1 x4 x16)	Function			Note
	Pass	Fail	N/A	

### 4-3. Mini PCI Card Compatibility Test    No Support

Mini PCI Card	Function			Note
	Pass	Fail	N/A	

### 4-4. CardBus (PCMCIA) Compatibility Function Test    No Support

CardBus (PCMCIA)	Function			Note
	Pass	Fail	N/A	

### 4-5. Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules

#### 4-5.1. Device List: PC/104 Module    No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
AAEON PCM-3660				

4-5.2. Device List: PC/104+ Module  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
AAEON PCM-3430				

4-5.3. Device List: PCI-104 Module  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
AAEON PCM-3730				

4-5.4. Device List: PCI/104 Express Module  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
AAEON PER-123				

4-6. SSD Modules Compatibility Test

SSD HDD Compatibility Test:

Cable Type:  IDE  SATA2  MLC  SLC  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
Transcend SSD 16G - TS16GSSD25S				

4-7. Peripheral Compatibility- Storage Device Test

4-7.1. Disk on Chip (DOC) Test  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
DOC 2000 Model	16MB			M-System / MD2200-D16
DOC 2000 Onboard Address	CC00			
	D000			
	D400			
	D800			
	DC00			
	Disable			

4-7.2. Disk on module (DOM) Test  No Support

Test Item	Result			Notes
	Pass	Fail	N/A	
Transcend / TS512MDOM40V / 512MB / IDE 40 Pin				
Transcend / TS512MDOM44V / 512MB / IDE 44 Pin				

## 5. Power Consumption Test

### 5-1. PC Health Status

Test Point: The value between Actual Voltage and Voltage Monitor must be + /- 5%

Voltage Monitoring Test	Result			In Bios(V)	Note
	Pass	Fail	N/A		
Vcc 1.5V	X			1.504	
Vcc 3.3V	X			3.312	
Vcc 5V	X			4.940	
Vcc 12V	X			11.904	
Vsb 5V	X			5.049	
Vcore	X			1.152	
VBAT	X			3.296	
CPU FAN Speed			X	RPM	
CPU Temperature	X			66°C	
System Temperature 1	X			61°C	
System Temperature 2	X			61°C	

## 6. Timer Accuracy Test

### 6-1. System Clock & RTC Clock Test

Under Room Temperature: 26 °C

Item Function	Time Interval	Margin for error	Actual	Result			Note
				Pass	Fail	N/A	
RTC Clock in Power On Mode	24 hrs	+/-2 sec	-1 Sec	X			
RTC Clock in Power Off Mode	24 hrs	+/-2 sec	-1 Sec	X			

### 6-2. Booting Timer Test

Installation	Actual		Note
System Booting Time	6.55	Sec	Press the Power Button till "Beep" Sound appears

### 6-3. Watchdog Timer Test

**Use Function as below: 8781\_W~1.EXE**

[ ] No Support.

Under Room Temperature: 26°C / DOS Mode

Time-out interval	Margin for error	Actual	Result			Note
			Pass	Fail	N/A	
10 sec	+/- 10%	10.8 Sec	X			Software provided by Aaeon S/W
60 sec	+/- 10%	61.2 Sec	X			

## 7. O.S. Compatibility Test

### 7-1. English Fedora 13 – Kernel 2.6.33.3- 85.fc13

[ ] No Support

Driver Information:

Chipset Software	Fedora 13 default driver
Graphics Media	Fedora 13 default driver
LAN Driver	Fedora 13 default driver
Audio Driver	Fedora 13 default driver

Install OS to SATA HDD:

Installation	Result			Note
	Pass	Fail	N/A	
Kernel 2.6.33.3- 85.fc13	X			Type uname -a

Test Result:

Test Item	Result			Note
	Pass	Fail	N/A	
<b>Display Function Test</b>				
VGA -- Full Screen	X			
<b>Network Function Test</b>				
Connect to Internet – LAN 1	X			
Connect to Internet – LAN 2	X			
<b>Audio Function Test</b>				
Play Audio Function Test	X			Play Audio Test
<b>Base Function Test</b>				
Mouse Test	X			
Keyboard Test	X			
CD-ROM Test	X			
USB 2.0 Removable Devices	X			
<b>X Windows Application</b>				
Start Button Office	X			Office function
X-Window	X			Startx – Desktop in Linux
<b>Command Test On Text Mode: Attention Delay Phenomenon.</b>				
uname -a	X			Show information
Shutdown	X			Init 0 or shutdown -h now
Restart the Computer	X			Init 6 or shutdown -r now
Halt	X			Power Off Mode
ls / clear .....; cd /dev /ls -l	X			Command instruction



## 7-2. Windows 7 Ultimate English Version 32/64Bit

No Support

x32 Driver Information:

Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1020(2009/08/26)
Graphics Media	Intel(R)GMA HD 8.15.10.1986(2009/10/30)
LAN Driver	Intel(R)82577LM Gigabit 11.2.19.0(2009/09/23)
	Intel(R)82574L Gigabit 11.0. 103.0(2009/07/14)
Audio Driver	VIA VT1708B 6.0.1.7300 (2009/07/10)

No Support

x64 Driver Information:

Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1020(2009/08/26)
Graphics Media	Intel(R)GMA HD 8.15.10.2104(2010/03/31)
LAN Driver	Intel(R)82577LM Gigabit 11.2.19.0(2009/09/23)
	Intel(R)82574L Gigabit 11.0. 103.0(2009/07/14)
Audio Driver	VIA VT1708B 6.0.1.7300 (2009/07/10)

### Install OS to SATA HDD:

Installation	Result			Note
	Pass	Fail	N/A	
English Windows 7 Ultimate ACPI Mode	X			

### Test Results:

Test Item	Result			Note
	Pass	Fail	N/A	
Single Display				
VGA -- Full Screen	X			
Boot - Windows 7 Ultimate Advanced Options Menu				
Safe Mode	X			
Basic Function Test				
PS/2 Mouse and Keyboard			X	
USB Mouse and Keyboard	X			
COM Port Mouse detect	X			
LPT1			X	
USB 2.0 Removable Devices	X			
LAN Function Test				
LAN1 --- Auto	X			
LAN2 --- Auto	X			
Audio Function Test				
Line Out Test	X			
Line In Test	X			
Microphone Test			X	
S/P DIF Test			X	
Start Menu				
Log off User	X			
Shut down	X			
Standby	X			
Restart	X			
Hibernate	X			

### 7-3. Windows XP Professional English Version 32/64Bit

No Support  
 x32 Driver Information:

Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1020(2009/08/26)
Graphics Media	Intel(R)GMA HD 6.14.10.5179(2009/11/9)
LAN Driver	Intel(R)82577LM Gigabit 11.2.19.0(2009/09/23)
	Intel(R)82574L Gigabit 11.1. 6.0(2009/07/13)
Audio Driver	VIA VT1708B 6.0.1.7300 (2009/07/10)

No Support  
 x64 Driver Information:

Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1020(2009/08/26)
Graphics Media	Intel(R)GMA HD 6.14.10.5160(2009/10/19)
LAN Driver	Intel(R)82577LM Gigabit 11.2.19.0(2009/09/23)
	Intel(R)82574L Gigabit 11.1. 6.0(2009/07/13)
Audio Driver	VIA VT1708B 6.0.1.7300 (2009/07/10)

#### Install OS to SATA HDD:

Installation	Result			Note
	Pass	Fail	N/A	
English Windows XP ACPI Mode	X			

#### Test Results:

Test Item	Result			Note
	Pass	Fail	N/A	
<b>Single Display</b>				
VGA -- Full Screen	X			
<b>Boot - Windows XP Advanced Options Menu</b>				
Safe Mode	X			
<b>Basic Function Test</b>				
PS/2 Mouse and Keyboard			X	
USB Mouse and Keyboard	X			
COM Port Mouse detect	X			
LPT1			X	
USB 2.0 Removable Devices	X			
<b>LAN Function Test</b>				
LAN1 --- Auto	X			
LAN2 --- Auto	X			
<b>Audio Function Test</b>				
Line Out Test	X			
Line In Test	X			
Microphone Test			X	
S/P DIF Test			X	
<b>Start Menu</b>				
Log off User	X			
Shut down	X			
Standby	X			
Restart	X			
Hibernate	X			

## 8. BIOS Function Test

### 8-1. Boot Sequence Test

Test Item	Result			Note
	Pass	Fail	N/A	
Floppy	X			
Hard Disk	X			
Removable (All Device Priority)			X	
CDROM			X	
USB HDD	X			
USB Floppy	X			
USB CD-ROM	X			
LAN [ Boot From LAN First ]	X			
Disable	X			
Check "Halt on" item – All error but K/B			X	

### 8-2. Power Management Test

#### 8-2.1. APM Power Management Test

Test Item	Setting Test	Result			Note
		Pass	Fail	N/A	
Suspend Mode	Function Test			X	
Power Button	Delay 4 Sec			X	Soft-Off By PWRBTN
Power Button	Instant-Off			X	Soft-Off By PWRBTN

#### 8-2.2. ACPI Power Management Test

Test Item	Result			Note
	Pass	Fail	N/A	
Enable ACPI Auto Configuration	X			
Enable Hibernation	X			
ACPI - S1 (POS)			X	Resume from PS/2 keyboard or mouse.
	X			Resume from USB keyboard or mouse.
ACPI - S3 (STR)	X			
Suspend Disable	X			

### 8-3. Power On Function Test

Test Item	Result			Note
	Pass	Fail	N/A	
Password	X			
Hot KEY			X	
MOUSE Move & Click			X	
MOUSE Click			X	
Any KEY			X	
BUTTON ONLY	X			

#### 8-4. Power On after Power Failure Test

Test Item	Result			Note
	Pass	Fail	N/A	
Off	X			
On	X			
Former-Sts (Auto)	X			

#### 8-5. AAEON Tag Check Utility

Test Item	Result			Note
	Pass	Fail	N/A	
Check AAEON BIOS OK	X			AONCHECK.EXE

#### 8-6. TPM Function Test

Test Item	Result			Note
	Pass	Fail	N/A	
No Change			X	
Clear			X	
Enable & Active			X	
Disable & Disactive			X	Detect TPM device under Windows.

#### 8-7. IAMT Function Test

Test Item	Result			Note
	Pass	Fail	N/A	
IAMT Function			X	

#### 8-8. CAN port Function Test

Note: Sets the interrupt for each port. Be sure that this setting matches the IRQ

Basic Function Test					
Test Item	Interrupt: Polling or IRQ	Result			Note
		Pass	Fail	NA	
CAN1 transmits CAN2	CAN1:			X	
	CAN2			X	
CAN2 transmits CAN1	CAN2:			X	
	CAN1:			X	

#### 8-9. Supervisor / User Password Test

Test Item	Result			Note
	Pass	Fail	N/A	
Supervisor Password	X			
User Password	X			

## 9. Performance Test

### 9-1. Performance Test

Test Result: (Display set 1024\*768 test)

Testing Software	Scope		Note
	AAEON	Ref.	
<b>PCMark2002</b>			<b>Only for XP</b>
CPU	6971	-	
Memory	19165	-	
HDD	1674	-	
Benchmark (A)	-		
<b>PCMark2005</b>			<b>XP and Windows 7</b>
PCMark	3466	-	PCMarks
CPU	3714	-	
Memory	4477	-	
Graphics	2164	-	
HDD	5634	-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
<b>3Dmark2003 v360</b>			<b>Only for XP</b>
3Dmark Score	3511	-	
CPU Score	499	-	
Benchmark (A)	-		
<b>3Dmark2006 v110</b>			<b>XP and Windows 7</b>
3Dmark Score	1385	-	
CPU Score	1257	-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
<b>Final Reality V1.01—BenchMark Test</b>			<b>XP and Windows 7</b>
2D image	41.42	-	
3D	4.02	-	
Bus transfer	46.74	-	
Overall	21.65	-	Reality marks
Benchmark (A)	-		

## 9-2. Memory Test

Test Item	Result			Note
	Pass	Fail	N/A	
MEM v4.10 Overnight Test	X			