

AEC-6872

Fanless embedded controller with Intel D510 Processor P5 Verification Test Report

Summary	<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail Note : There is/are ___ defect(s) not list in the report, please check it in the DTS Website. <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

2011/0628

Approval

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Test Engineer

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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
System Model / Version	AEC-6872 A1.0	1,2,3,4,5,6,7,8,9
CPU Board	EMB-LN9T A1.0	1,2,3,4,5,6,7,8,9
Carrier Board	N/A	N/A
BIOS / Version	A6872 0.13 x64(11/16/2010)	1,2,3,4,5,6,7,8,9
CPU Type	Intel Atom D510 1.66GHz(166.7x10)	1,2,3,4,5,6,7,8,9
Memory Type	DSL DDR2-667 2GB(SEC 010 HCF7 K4T1G084QE)	1,2,3,4,5,6,7,8,9
SATA HDD	TOSHIBA 160GB(MK1665GSX)	1,2,3,4,5,6,7,8,9
SATA DVD-ROM	N/A	N/A
USB DVD-ROM	ASUS 16X(DRW-1604P-D/WHT/G/ASUS)	1,2,3,4,5,6,7,8,9
CRT Monitor	DELL 17"(E178FPc)	1,2,3,4,5,6,7,8,9
LVDS	N/A	N/A
Compact Flash	N/A	N/A
Daughter Board	N/A	N/A
Expansion Board	N/A	N/A
	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 32Bit	7-2
	<input checked="" type="checkbox"/> Windows XP Professional English SP3 32 Bit	7-3
Power Supply	ATX Power Supply : N/A	N/A
	AT Power Supply: N/A	N/A
	DC Adapter : FSP 12V(FSP060-DBAB1)	1,2,3,4,5,6,7,8,9
Battery Model	N/A	N/A
Chipset Information with XP Professional English SP3 32 Bit Driver Version		
Chipset Software	Intel 5 Series/3400 Series chipset 9.1.1.1025 (12/14/2009)	
North Bridge	PineView D/M	
South Bridge	ICH8M	
Super IO Chipset	W83627UHG	
VGA Chipset	Intel Graphics Media Accelerator 3150 6.14.10.5244 (3/17/2010)	
Audio Chipset	VIA High Definition Audio 6.0.1.1550 (10/22/2008)	
Ethernet Chipset	Realtek RTL8168C(P)/8111C(P) PCI-E Gigabit 5.698.701.2008 (7/1/2008)	

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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 / Parallel 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-6872									
VGA	CHIMEI 22SH-L									
DVI	N/A									
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	
1400X1050			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

Connect two computers via different speed LAN HUB by using "Ping" instruction (1000 times)									
1000MBps LAN HUB		D-Link DGS-1008D							
100MBps LAN HUB		HP J4095A 24 Ports							
10MBps LAN HUB		SVEC FD916H							
OnBoard LAN1		Realtek RTL8168C(P) PCI-E Gigabit Ethernet NIC				MAC Address		00-07-32-15-BC-6D	
OnBoard LAN2		Realtek RTL8168C(P) PCI-E Gigabit Ethernet NIC				MAC Address		00-07-32-15-BC-6E	
LAN Speed	Link / Speed LED	Active 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:

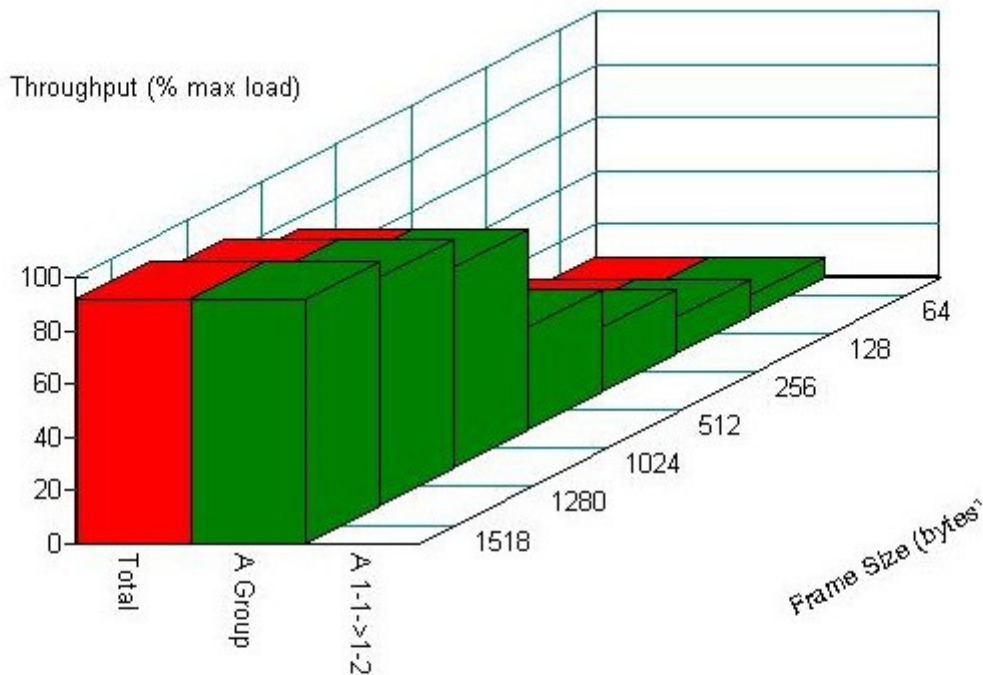
Graphics Media	Intel Graphics
LAN	LAN1 → Realtek RTL8168C(P) Gigabit Ethernet NIC Ethernet: Realtek -8169 Gigabit Ethernet driver Rev. 2.3LK-NAPI
	LAN2 → Realtek RTL8168C(P) Gigabit Ethernet NIC Ethernet: Realtek -8169 Gigabit Ethernet driver Rev. 2.3LK-NAPI
Audio Driver	VIA HD-audio codec

SMB Platform Information:

Chassis	SPIRENT Smartbits 600B
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:

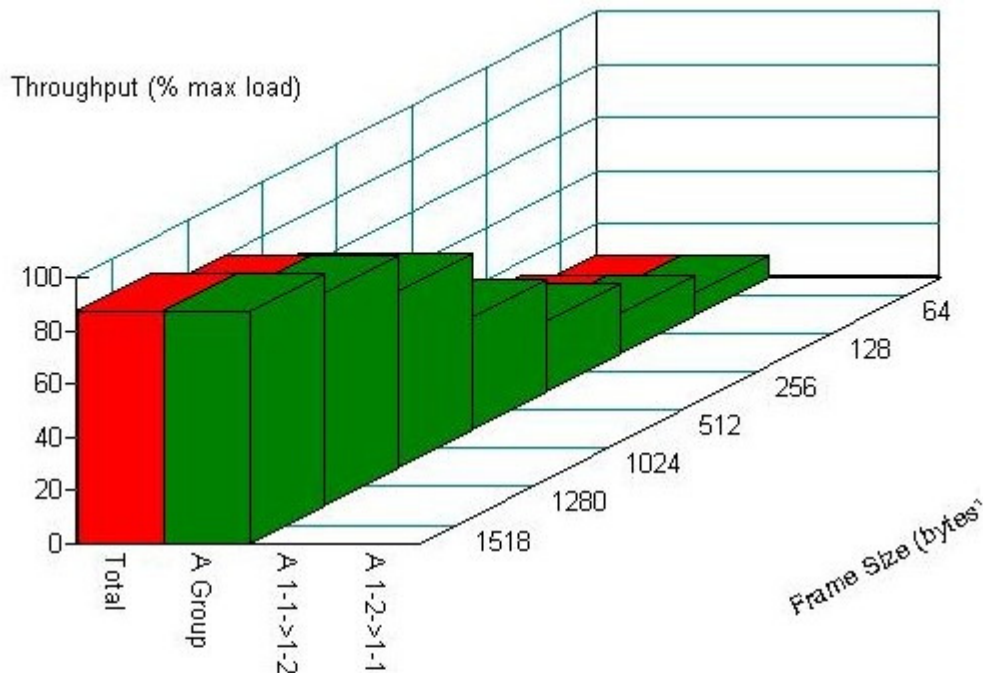
- Half Direction (LAN1: Realtek RTL8168C(P) PCI-E Gigabit Ethernet NIC 10/100/1G Ethernet →
LAN2: Realtek RTL8168C(P) PCI-E Gigabit Ethernet NIC 10/100/1G Ethernet)



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>
Total	7.1875	13.375	23.4296875	38.125	74.4765625	85.3046875	91.4921875
A Group	7.1875	13.375	23.4296875	38.125	74.4765625	85.3046875	91.4921875
A 1-1->1-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Binary Direction (LAN1: Realtek RTL8168C(P) PCI-E Gigabit Ethernet NIC 10/100/1G Ethernet → LAN2: Realtek RTL8168C(P) PCI-E Gigabit Ethernet NIC 10/100/1G 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>
Total	7.9609375	14.921875	25.75	41.9921875	65.96875	79.1171875	86.8515625
A Group	7.9609375	14.921875	25.75	41.9921875	65.96875	79.1171875	86.8515625
A 1-1->1-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A
A 1-2->1-1	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2-4. Others Function Test

[X] 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

PCI Card	Function			Note
	Pass	Fail	N/A	
Intel GD82559 10/100 Mbps Fast Ethernet Adapter	X			
Realtek RTL8139 10/100 Mbps Fast Ethernet Adapter	X			

4-2. PCI-Express Function Test [X] No Support

PCI-Express x1	Function			Note
	Pass	Fail	N/A	

4-3. Mini PCI Card Compatibility Test [X] No Support

Mini PCI Card	Function			Note
	Pass	Fail	N/A	

4-4. CardBus (PCMCIA) Compatibility Function Test [X] 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 [X] 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		
VIN 0	X			12.144	
VIN 1	X			5.016	
VIN 2	X			2.532	
VCORE	X			1.056	
System Fan 1 Speed			X	RPM	
System Temperature 1	X			48°C	
System Temperature 2	X			50°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	4.06	Sec	Press the Power Button till "Beep" Sound appears

6-3. Watchdog Timer Test

Use Function as below:

[] 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%	58.9 Sec	X			

7. O.S. Compatibility Test

7-1. English Fedora Core 13 –Kernel 2.6.33.3- 85.fc1

[] 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	
Display Function Test				
VGA -- Full Screen	X			
Network Function Test				
Connect to Internet – LAN 1	X			
Connect to Internet – LAN 2	X			
Audio Function Test				
Play Audio Function Test	X			Play Audio Test
Base Function Test				
Mouse Test	X			
Keyboard Test	X			
CD-ROM Test	X			
USB 2.0 Removable Devices	X			
X Windows Application				
Start Button Office	X			Office function
X-Window	X			Startx – Desktop in Linux
Command Test On Text Mode: Attention Delay Phenomenon.				
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

[X] x32 Driver Information:

Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1025(2009/12/14)
Graphics Media	Intel(R)GMA 3150 8.15.10.1929(2009/9/23)
LAN Driver	Realtek PCI-E Gigabit 7.18.322.2010(3/22/2010)
	Realtek PCI-E Gigabit 7.18.322.2010(3/22/2010)
Audio Driver	VIA VT1708B 6.0.1.7300 (2009/07/10)

[X] No Support

[] x64 Driver Information:

Chipset Software	
Graphics Media	
LAN Driver	
Audio Driver	

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: 9.1.1.1025(2009/12/14)
Graphics Media	Intel Graphics Media Accelerator 3150 6.14.10.5244 (3/17/2010)
LAN Driver	Realtek RTL8168C(P)/811C(P) PCI-E Gigabit 5.698.701.2008 (7/1/2008)
	Realtek RTL8168C(P)/811C(P) PCI-E Gigabit 5.698.701.2008 (7/1/2008)
Audio Driver	VIA VT1708B 6.0.1.1550 (2008/10/22)

No Support

x64 Driver Information:

Chipset Software	
Graphics Media	
LAN Driver	
Audio Driver	

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	
Single Display				
VGA -- Full Screen	X			
Boot - Windows XP 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			

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 1600*900 test)

Testing Software	Scope		Note
	AAEON	Ref.	
PCMark2002			Only for XP
CPU	2800	-	
Memory	6830	-	
HDD	1339	-	
Benchmark (A)	-		
PCMark2005			XP and Windows 7
PCMark	2047	-	PCMarks
CPU	2039	-	
Memory	2541	-	
Graphics	754	-	
HDD	4733	-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
3Dmark2003 v360			Only for XP
3Dmark Score	940	-	
CPU Score	301	-	
Benchmark (A)	-		
3Dmark2005 v130			XP and Windows 7
3Dmark Score	335	-	
CPU Score	2177	-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
Final Reality V1.01—BenchMark Test			XP and Windows 7
2D image	21.38	-	
3D	4.03	-	
Bus transfer	39.21	-	
Overall	14.51	-	Reality marks
Benchmark (A)	-		

9-2. Memory Test

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