

ACP-5182

P5 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
2011/1/20	Jansin Lee	Nisam Jone

Test Suites Overall Results Summary

No.	Test Category	Test Results
1	OSD Control 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	ACP-5182	1,2,3,4,5,6,7,8,9
CPU Board	GENE-LN05	1,2,3,4,5,6,7,8,9
Carrier Board	N/A	N/A
BIOS / Version	AMI BIOS 4.6.4.0 C5182 Rev 0.3	1,2,3,4,5,6,7,8,9
CPU Type	Intel Atom D510 1.6GHz	1,2,3,4,5,6,7,8,9
Memory Type	Transcend DDR-II TS256MSQ64V6U 2GB	1,2,3,4,5,6,7,8,9
SATA HDD	Seagate ST9160412AS 160GB	N/A
SATA DVD-ROM	N/A	N/A
USB DVD-ROM	LG USB 2.0 Super Multi DVD Rewriter	1,2,3,4,5,6,7,8,9
LCD Monitor	N/A	N/A
LVDS	18.5", 1366 x768, 250 nit	1,2,3,4,5,6,7,8,9
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 type="checkbox"/> Linux-RedHat 9.0	7-1
	<input checked="" type="checkbox"/> Fedora Core 12 – Kernel 2.6.31.5-127.fc12.i686	7-2
	<input checked="" type="checkbox"/> Windows 7 Ultimate 32	7-3
Power Supply	<input checked="" type="checkbox"/> Windows XP Professional English SP3 32 Bit	7-3
	DC Adapter :FSP FSP084-DMAA1	1,2,3,4,5,6,7,8,9
Chipset Information with XP Professional English SP3 32 Bit Driver Version		
Chipset Software	Intel Chipset Device Software Ver.9.1.1.1009 Date : 3/9/2009	
North Bridge	Intel ® N10 Ver.9.1.1.1008 Date:3/9/2009	
South Bridge	Intel ® ICH8M Ver.8.6.1.1002 Date: 2/20/2008	
Super IO Chipset	Intel ® ICH8 Ver.8.6.1.1002 Date: 2/20/2008	
VGA Chipset	Intel Graphics Media Accelerator 3150 Ver. 6.14.10.5244 (Date:3/17/2010)	
Audio Chipset	Realtek Semiconductor Ver.5.10.0.6101 (Date:4/30/2010)	
Ethernet Chipset	Intel 82583V Ethernet Ver.11.4.7.0 (Date: 12/4/2009)	
	Intel 82567V-3 L Ethernet Ver.10.1.9.0 (Date:4/7/2010)	

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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. OSD Control Function Test

1-1. OSD Control Test

OSD Control Function	Function			Note
	Pass	Fail	N/A	
Auto			X	
MENU			X	
Volume UP	X			
Volume DOWN	X			
POWER	X			Power LED
EXIT			X	

1-2. OSD – On Screen Display Test

OSD –On Screen Display	Function			Note
	Pass	Fail	N/A	
Input Source			X	OSD Control by system
PIP Enable			X	
Auto Tune			X	
Backlight	X			
Brightness			X	
Contrast			X	
Color			X	
Quality			X	
Position			X	
Language			X	
Recall			X	
Save Exit			X	
Cancel Exit			X	

1-3. OSD Light Test

OSD Control Function	Function			Note
	Pass	Fail	N/A	
Power off	X			
Power on	X			
Stand by	X			

1-4. Modular System Industrial Workstation Function Test

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

1-5. Mechanism construction check

Test Item	Result			Note
	Pass	Fail	N/A	
Case construction check	X			
PCMICA 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		Model Name								
VGA		ViewSonic VE175 17" LCD								
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

1000Mbps LAN HUB		D-Link DGS-1008D							
100Mbps LAN HUB		HP J4095A 24 Ports							
10MBps LAN HUB		SVEC FD916H							
OnBoard LAN1		82567V			MAC Address			00-07-32-14-DC-33	
OnBoard LAN2		82583V			MAC Address			00-07-32-14-DC-34	
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:

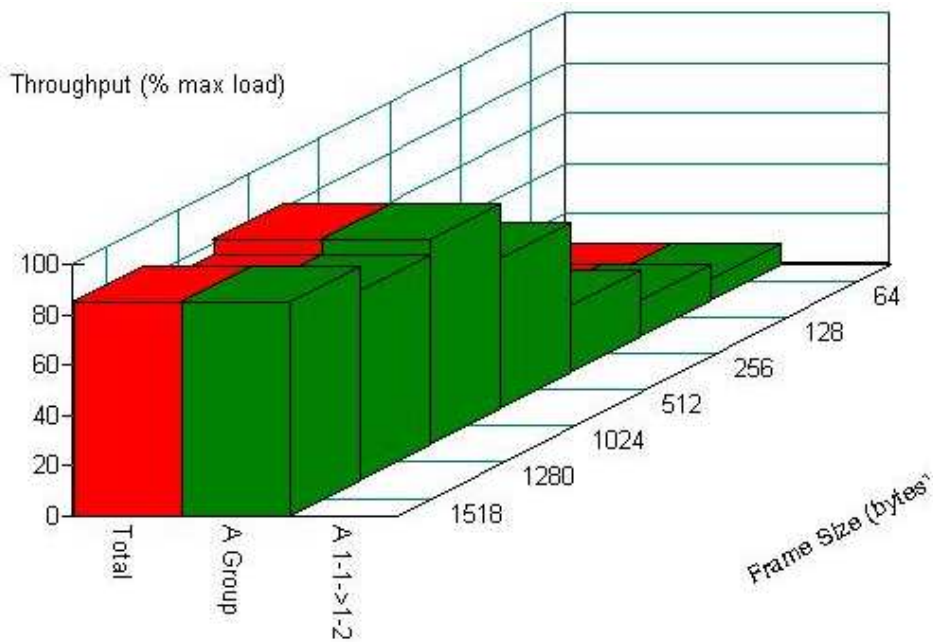
Graphics Media	Fedora Core 13 Default setting
LAN	LAN1→82567V Ethernet: Fedora Core Default setting
	LAN2→82583V Ethernet: Fedora Core Default setting
Audio Driver	Fedora Core Default setting

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:

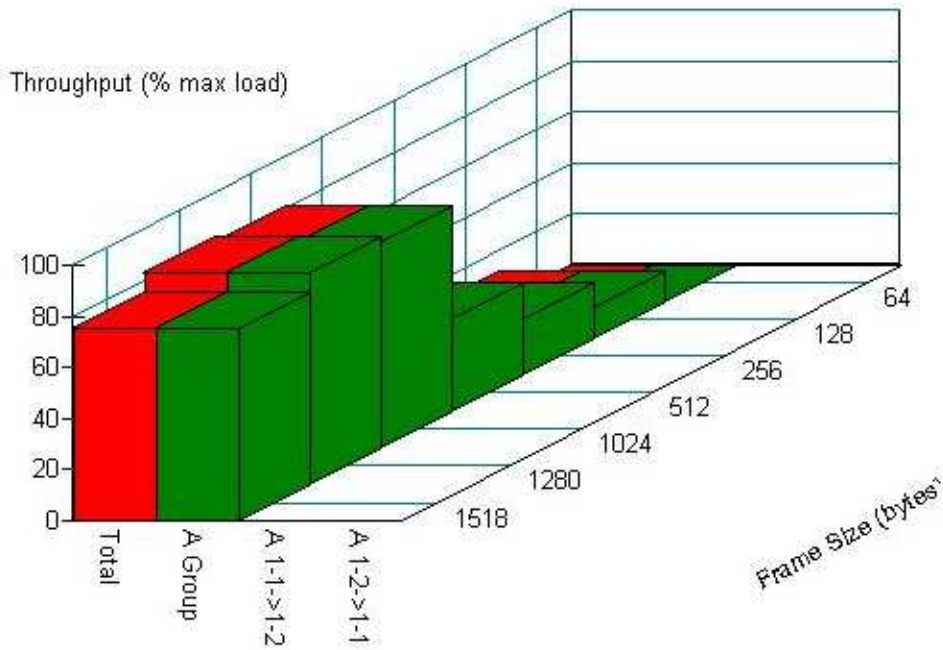
1. Half Direction (LAN1: Intel 82567V 10/100/1G Ethernet → LAN2: Intel 82583V 10/100/1G Ethernet)



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	7.9609375	14.1484375	25.75	59.0078125	80.6640625	74.4765625	84.53125
A Group	7.9609375	14.1484375	25.75	59.0078125	80.6640625	74.4765625	84.53125
A 1-1->1-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Binary Direction (LAN1: Intel 82567V 10/100/1G Ethernet → LAN2: Intel 82583V 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	0	11.828125	21.109375	35.8046875	79.890625	82.2109375	74.4765625
A Group	0	11.828125	21.109375	35.8046875	79.890625	82.2109375	74.4765625
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

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
Serial Modem +12V			X	Test by Multimeter
Serial Modem +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	
EPSON Stylus C61			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			Tracker (V)	Note
	Pass	Fail	N/A		
CPUVcore	X			1.176	
(+)1.5V	X			1.504	
(+)3VCC	X			3.360	
(+)5V	X			5.187	
(+)DDR	X			1.816	
VBAT	X			3.280	
CPU temperature	X			65°C	
SB temperature	X			63°C	

5-2. DC Power Switch

Test Environment	Switch	DC Power(8.5V~19V)	Note
(Normal Mode) Windows XP SP3 with Prime 95 Full Loading Test	(+8.50V)	3.89	A
	(+12V)	3.01	A
	(+16V)	2.28	A
	(+19V)	1.94	A
Suspend in XP (S1)	(+8.50V)	1.22	A
	(+12V)	0.92	A
	(+16V)	0.73	A
	(+19V)	0.64	A
Max rush current during boot to Windows	(+8.50V)	3.62	A
	(+12V)	2.74	A
	(+16V)	2.14	A
Windows XP SP3 Without running any Software	(+19V)	1.69	A
	(+8.50V)	3.26	A
	(+12V)	2.50	A
	(+16V)	1.89	A
	(+19V)	1.65	A

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	7.8	Sec	

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%	9.2 Sec	X			Software provided by Aaeon S/W
60 sec	+/- 10%	60.6 Sec	X			

7. O.S. Compatibility Test

7-1. English Fedora Core 12 – Kernel 2.6.31.5-127.fc12.i686

Driver Information:

Chipset Software	System default
Graphics Media	System default
LAN Driver	System default
Audio Driver	System default

Install OS to SATA HDD:

Installation	Result			Note
	Pass	Fail	N/A	
Kernel 2.6.31.5-127.fc12.i686	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

x32 Driver Information: No Support

Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1009(2009/03/09)
Graphics Media	Intel(R)GMA 3150 8.14.10.2117(2010/04/19)
LAN Driver	Intel(R)82567V-3 Gigabit Network Connection 10.1. 9.0(2010/04/07) Intel(R)82583V Gigabit Network Connection 11.4. 7.0(2009/12/04)
Audio Driver	Realtek ALC 888HD Audio 6.0.1.6101(2010/04/30)

x64 Driver Information: No Support

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

x32 Driver Information:

Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1009(2009/03/09)
Graphics Media	Intel(R)GMA 3150 6.14.10.5244(2010/03/17)
LAN Driver	Intel(R)82567V-3 Gigabit Network Connection 10.1. 9.0(2010/04/07)
	Intel(R)82583V Gigabit Network Connection 11.4. 7.0(2009/12/04)
Audio Driver	Realtek ALC888 5.10.0.6101 (2010/04/30)

x64 Driver Information: No Support

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					Note
Test Item	Interrupt: Polling or IRQ	Result			
		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	
Administrator 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.	
PCMark2002			Only for XP
CPU	2782	-	
Memory	7415	-	
HDD	1110	-	
Benchmark (A)	-	-	
PCMark2005			XP and Windows 7
PCMark	2037	-	PCMarks
CPU	2043	-	
Memory	2569	-	
Graphics	781	-	
HDD	4019	-	
Benchmark (B)	-	-	
Average Efficiency	-	-	

Testing Software	Scope		Note
	AAEON	Ref.	
3Dmark2003 v360			Only for XP
3Dmark Score	978	-	
CPU Score	311	-	
Benchmark (A)	-	-	
3Dmark2006 v110			XP and Windows 7
3Dmark Score	209	-	
CPU Score	898	-	
Benchmark (B)	-	-	
Average Efficiency	-	-	

Testing Software	Scope		Note
	AAEON	Ref.	
Final Reality V1.01—BenchMark Test			XP and Windows 7
2D image	21.52	-	
3D	4.07	-	
Bus transfer	29.43	-	
Overall	13.11	-	
Benchmark (A)	-	-	Reality marks

9-2. Memory Test

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