

AIS-Q574

Intel Q57 Advanced System Controller P5 Test Report

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

Issue date

Approval

Test Engineer

2011/10/06

Jansin Lee

Wade Yang

Version Released Records

Date	Version	Change History	Note
2010/04/21	P3-1001	1. Re-composing test Items	
2010/06/01	P2P3-1001	1. New Test Report	
2010/06/21	P2P3-1002	1. Add BIOS -> SPI ROM Setting (South Bridge – GPIO)	
2010/12/02	P2P3-1003	1. New Test Report	
2011/02/23	P2P3-1101	1. Re-composing test Items	
2011/03/04	P2P3-1102	1. Add Specification Validation	

Note :

For all test items in this report, 3 results have been defined and described as following:

- Pass:** Functionality work perfectly
- Fail:** Functionality failed and must be resolved in the next version
- N/A:** Functionality Not Applicable or Not Available

This test report would be updated when re-test completed in product next change version.

Platform Information

Item	Device Information	Test Item
PCB Model / Version	IMBI-Q57 Rev A2.0	1,2,3,4,5,6,7,8,9
CPU Board	N/A	1,2,3,4,5,6,7,8,9
BIOS / Version	AIS-Q574 1.00 X64 (05/11/2011 18:50:44)	1,2,3,4,5,6,7,8,9
CPU Type	Intel Core I7-860 / I5-660	1,2,3,4,5,6,7,8,9
Memory Type	DSL DDR 1333 4GB CL9 (ELPDATWN J2108BCSE-DJ-F1049097NE00)	1,2,3,4,5,6,7,8,9
SATA HDD	Seagate 3.5" SATA HD ST3160815AS Barracuda 7200 160GB	1,2,3,4,5,6,7,8,9
SATA DVD-ROM	SONY Optiarc AD-7585H	1,2,3,4,5,6,7,8,9
USB DVD-ROM	N/A	1,2,3,4,5,6,7,8,9
LCD Monitor	ViewSonic VT2430	1,2,3,4,5,6,7,8,9
LVDS	N/A	1,2,3,4,5,6,7,8,9
Compact Flash	N/A	1,2,3,4,5,6,7,8,9
Daughter Board	N/A	1,2,3,4,5,6,7,8,9
Expansion Board	N/A	1,2,3,4,5,6,7,8,9
	N/A	1,2,3,4,5,6,7,8,9
Operating System	<input checked="" type="checkbox"/> Fedora Core 14 Kernel 2.6.35.6-45.fc14	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 :	1,2,3,4,5,6,7,8,9
	AT Power Supply: N/A	1,2,3,4,5,6,7,8,9
	DC Adapter : N/A	1,2,3,4,5,6,7,8,9
Battery Model	N/A	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 installer Rev.1.1.28.0	
North Bridge	Intel Havendate/Clarkdate Host Bridge Rev.18	
South Bridge	Intel Q57	
Super IO Chipset	ITE IT 8718	
VGA Chipset	Intel® Graphics Media Accelerator Driver install Rev.1.2.45.0	
Audio Chipset	Realtek WDM_R224 Rev.2.11.15.0	
Ethernet Chipset	Intel Autorun Application Rev7.0.1.0	

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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.

1. Modular System Function Test

1.1. 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			
Floppy drive included	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	
Component check	X			

2. Basic Function Test

2.1. Video Function Test

2.1.1. Single Output Function Test

Interface	AIS-Q574									
VGA	ViewSonic VT2430									
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	
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)

Note: Pay attention with Full Screen under POST screen and Text Mode.

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			
CD_In			X	
Line In	X			
MICROPHONE	X			
6-channel mode for 5.1 speaker output			X	
8-channel mode for 7.1 speaker output			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		Intel® 82583V				MAC Address		12-34-56-78-90-12	
OnBoard LAN2		Intel® 82578DM				MAC Address		00-07-32-17-D6-BA	
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:

<input checked="" type="checkbox"/> Fedora Core 14 Kernel 2.6.35.6-45.fc14
<input type="checkbox"/> Cent 5.5
<input type="checkbox"/> Ubuntu 10.10 Kernel 2.6.27
<input type="checkbox"/> Red Hat

Note : Connection-Level Performance (Interaction Constants Duration Time Set to 30 Sec.)

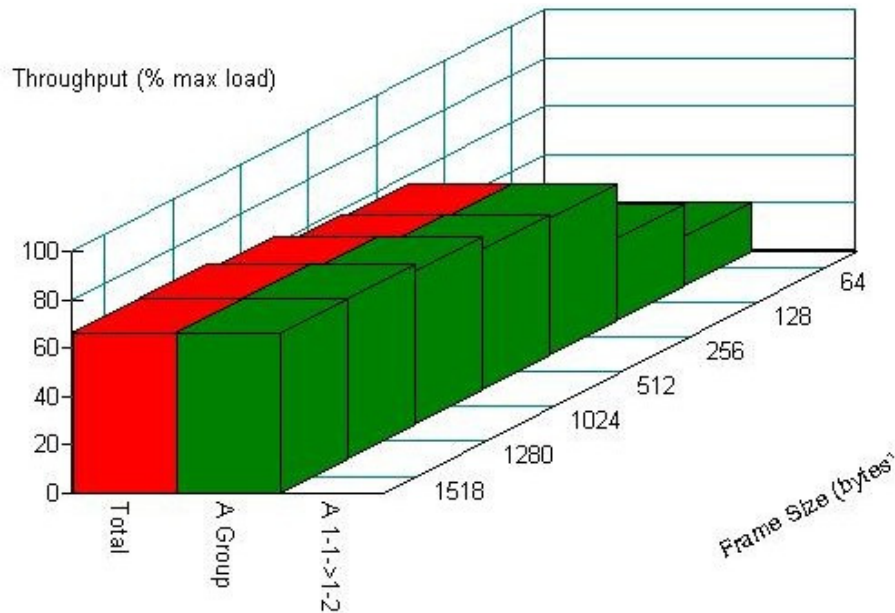
Graphics Media	Realtek HD-audio codec
LAN	LAN1→ Intel® 82583V Ethernet : Intel® PRO/1000 Network driver Rev.1.0.2-k4 LAN2→ Intel® 82578DM Ethernet: Intel® PRO/1000 Network driver Rev.1.0.2-k4
Audio Driver	Intel Graphics

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:

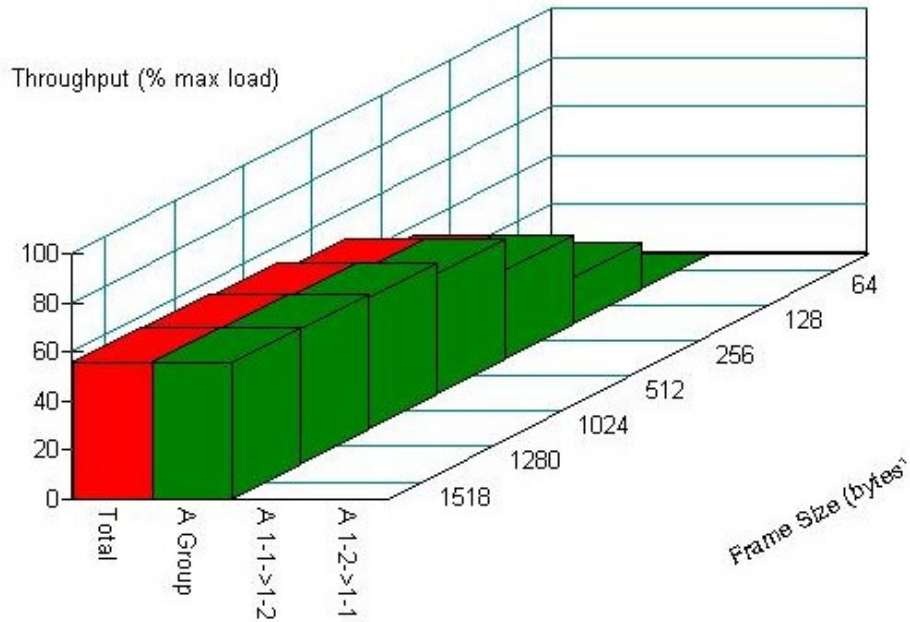
- Half Direction (LAN1: Intel® 82583V 10/100/1G Ethernet → LAN2: Intel® 82578DM 10/100/1G Ethernet)



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	19.5625	33.484375	55.9140625	57.4609375	62.875	65.96875	65.96875
A Group	19.5625	33.484375	55.9140625	57.4609375	62.875	65.96875	65.96875
A 1-1->1-2	N/A	N/A	N/A	N/A	N/A	N/A	N/A

2. Binary Direction (LAN1: Intel® 82583V 10/100/1G Ethernet → LAN2: Intel® 82578DM 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	18.7890625	35.8046875	48.1796875	52.8203125	54.3671875	55.140625
A Group	0	18.7890625	35.8046875	48.1796875	52.8203125	54.3671875	55.140625
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 V6.0 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

PCI-Express	Function			Note
	Pass	Fail	N/A	
ASUS A676PS (EAX1600PRO) x16 VGA Card	X			
Adapter AAR-1430SA x4 SATA RAID Card	X			
Intel Gigabyte CT x1 Desktop Adapter	X			Slat at 1/2

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		
CPUVCORE	X			1.152	
DIMM Voltage	X			1.520	
+3.3VIN	X			3.376	
+12VIN	X			11.904	
+5VIN	X			4.945	
+5VSB	X			4.919	
VBAT	X			3.278	
CPU FAN 1 Speed	X			3229 RPM	
System FAN 1 Speed	X			4354 RPM	
System FAN 2 Speed	X			4066 RPM	
CPU Temperature	X			52°C	
System Temperature 1	X			34°C	
System Temperature 2	X			35°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	5.92 Sec	Press the Power Button till "Beep" Sound appears

6-3. Watchdog Timer Test

Use Function as below: 10 / 60.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%	10.3 Sec	X			Software provided by Aaeon S/W
60 sec	+/- 10%	65.2 Sec	X			

7. O.S. Compatibility Test

7-1. English Fedora 14 – Kernel 2.6.35.6- 45.fc14

[] No Support

Driver Information:

Chipset Software	Fedora 14 default driver
Graphics Media	Fedora 14 default driver
LAN Driver	Fedora 14 default driver
Audio Driver	Fedora 14 default driver

Install OS to SATA HDD(WD800AAJS-00PSA0 / 80 GB):

Installation	Result			Note
	Pass	Fail	N/A	
Kernel 2.6.35.6- 45.fc14	X			Type uname -a

Test Result:

Test Item	Result			Note
	Pass	Fail	N/A	
Display Function Test				
DVI -- Full Screen(External vga card)	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

x32 Driver Information:

Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1023(2009/11/2)
Graphics Media	Nvidia Geforce GT220 8.17.12.5919(2010/7/29)
LAN Driver	Intel(R)82578DM Gigabit Network Connection 11.2.19.0(2009/09/23)
	Intel(R)82574L Gigabit Network Connection 11.0.103.0(2009/7/14)
Audio Driver	Realtek ALC 888 HD Audio 6.0.1.5854(2009/05/15)

No Support

x64 Driver Information:

Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1023(2009/11/2)
Graphics Media	Nvidia Geforce GT220 8.17.12.5919(2010/7/29)
LAN Driver	Intel(R)82578DM Gigabit Network Connection 11.2.19.0(2009/09/23)
	Intel(R)82574L Gigabit Network Connection 11.0.103.0(2009/7/14)
Audio Driver	Realtek ALC 888 HD Audio 6.0.1.5854(2009/05/15)

Install OS to SATA HDD(WD800AAJS-00PSA0 / 80 GB):

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(External vga card)	X			
DVI -- Full Screen(External vga card)	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: 9.1.1.1023(2009/11/2)
Graphics Media	Nvidia Geforce GT220 6.14.11.9045(2009/8/6)
LAN Driver	Intel(R)82578DM Gigabit Network Connection 11.2.19.0(2009/09/23)
	Intel(R)82574L Gigabit Network Connection 11.1.6.0(2009/7/13)
Audio Driver	Realtek ALC 888 HD Audio 5.10.0.1.5854(2009/05/15)

No Support

x64 Driver Information:

Chipset Software	
Graphics Media	
LAN Driver	
Audio Driver	

Install OS to SATA HDD(WD800AAJS-00PSA0 / 80 GB):

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(External vga card)	X			
DVI -- Full Screen(External vga card)	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			
Start Menu				
Log off User	X			
Shut down	X			
tandby	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 after Power Failure Test

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

8.4. AAEON Tag Check Utility

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

8.5. 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.

8.6. IAMT Function Test

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

8.7. Administrator / User Password Test

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

8.8. CAN port Function Test

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	

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

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	12885	-	
Memory	46447	-	
HDD	1268	-	
Benchmark (A)	-		
PCMark2005			XP and Windows 7
PCMark	7513	-	PCMarks
CPU	10074	-	
Memory	10216	-	
Graphics	3819	-	
HDD	4763	-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
3Dmark2003 v360			Only for XP
3Dmark Score	7757	-	
CPU Score	1909	-	
Benchmark (A)	-		
3Dmark2006 v110			XP and Windows 7
3Dmark Score	2050	-	
CPU Score	5329	-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
Final Reality V1.01—BenchMark Test			XP and Windows 7
2D image	72.53	-	
3D	11.82	-	
Bus transfer	44.01	-	
Overall	34.86	-	Reality marks
Benchmark (A)	-		

9-2. Memory Test

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