

AEV-6312

In-Vehicle embedded controller with Intel D510 Processor

P5 Test Report

Summary	<input checked="" type="checkbox"/> Pass			
	<input type="checkbox"/> Fail Note : There is/are ___ defect(s) not list in the report, <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 / 10 / 21	Jansin Lee	Wade Yang

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	AEV-6312 Rev. A0.1	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	1,2,3,4,5,6,7,8,9
BIOS / Version	AEV-6312 0.1(03/10/2011)	1,2,3,4,5,6,7,8,9
CPU Type	Intel Atom D510 1.66GHZ FSB667MHZ	1,2,3,4,5,6,7,8,9
Memory Type	DDR2 667 512MB CL5 (ELPIDA TWN E5108AJ8G-6E-E081909AKRCA)	1,2,3,4,5,6,7,8,9
SATA HDD	Fid 2.5" SATA 10000 8GB WT	1,2,3,4,5,6,7,8,9
SATA DVD-ROM	N/A	1,2,3,4,5,6,7,8,9
USB DVD-ROM	LG GE20LU USB 2.0 Super Multi DVD Rewriter	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	Trancend Compact Flash 1GB	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
	N/A	1,2,3,4,5,6,7,8,9
Operating System	[X] Fedora 12 – Kernel 2.6.31.5- 127.fc12	7-1
	[X]Windows 7 Ultimate 32Bit	7-2
	[X]Windows XP Professional English SP3 32 Bit	7-3
Power Supply	ATX Power Supply : N/A	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 : FSP084-DMAA1 12V 7.0A MAX(84W MAX)	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 1.1.19.0	
North Bridge	Intel Atom Host Bridge	
South Bridge	Intel 82801HBM (ICH8-ME)	
Super IO Chipset	Winbond W83627DHG-P	
VGA Chipset	Intel® Graphics Media Accelerator	
Audio Chipset	Realtek ALC888 HD audio Codec	
Ethernet Chipset	Intel 82567V-3 & 82583V	

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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	
AC/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			GPS Antenna

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	AEV-6312									
VGA	ViewSonic VT2430									
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		Intel 82567V-3					MAC Address		00-07-32-17-25-48	
OnBoard LAN2		Intel 82583V					MAC Address		00-07-32-17-25-49	
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.)

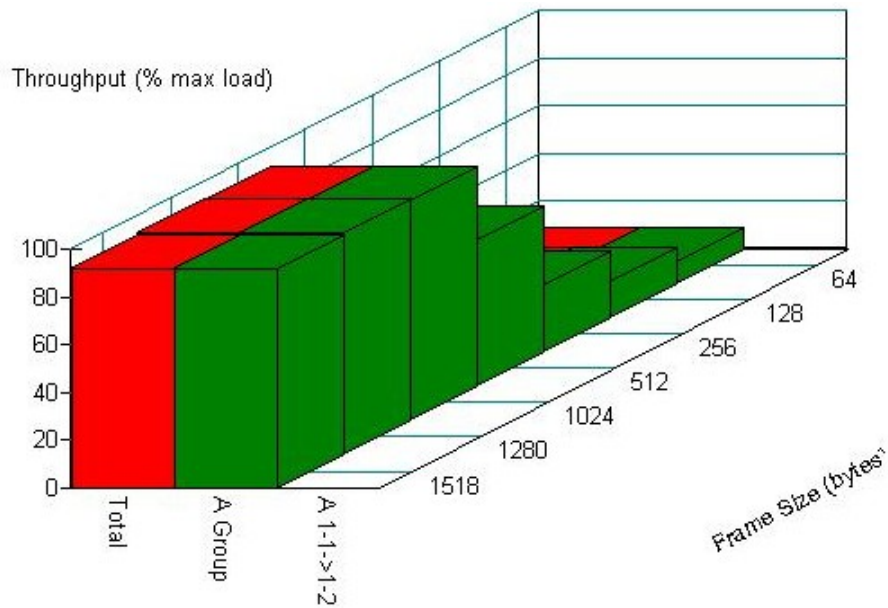
Graphics Media	Intel Graphics GPL and additional rights
LAN	LAN1→ Intel 82567V-3 Ethernet: Intel® PRO/1000 Network Driver Rev 1.0.2-K4 LAN2→ Intel 82583V Ethernet: Intel® PRO/1000 Network Driver Rev 1.0.2-K4
Audio Driver	Realtek HD-audio codec

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:

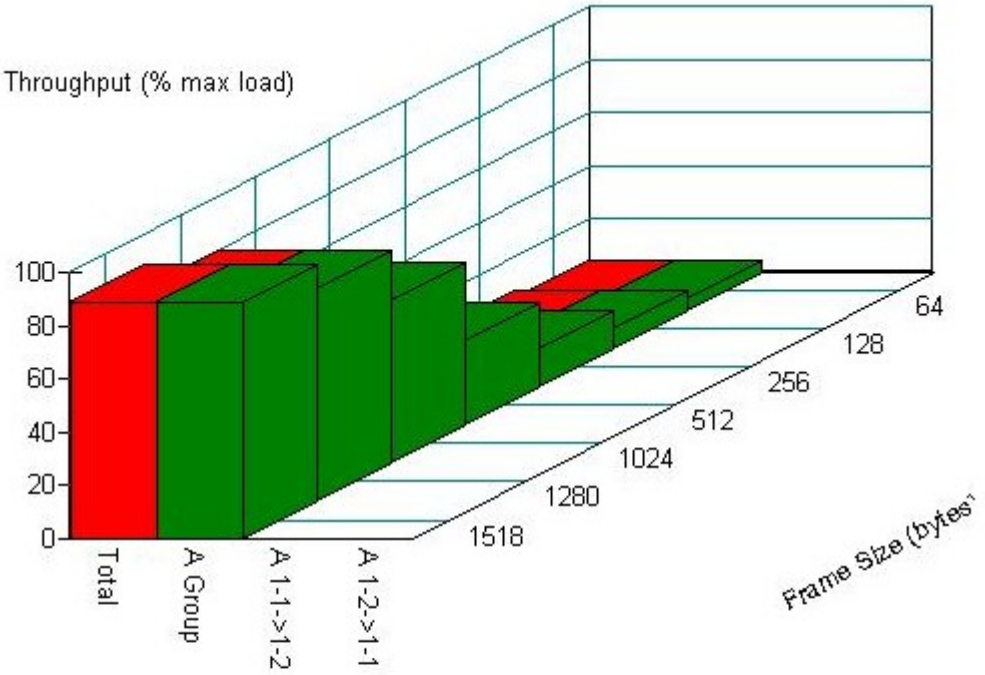
- Half Direction (LAN1: Intel 82567V-3 10/100/1G Ethernet → LAN2: Intel 82583V 10/100/1G Ethernet)



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	8.734375	14.921875	27.296875	60.5546875	91.4921875	92.265625	91.4921875
A Group	8.734375	14.921875	27.296875	60.5546875	91.4921875	92.265625	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: Intel 82567V-3 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	4.09375	7.1875	14.1484375	31.1640625	60.5546875	79.1171875	88.3984375
A Group	4.09375	7.1875	14.1484375	31.1640625	60.5546875	79.1171875	88.3984375
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

[] No Support

Function Test	Result			Note
	Pass	Fail	N/A	
3G Module	X			
GPS	X			
Wireless LAN			X	
Bluetooth			X	

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 [X] No Support

Adapter VGA Card	Set Simultaneous Display and Reboot			Note
	Pass	Fail	N/A	
CHAINTECH NVIDIA GeForce4 MX440-8X				
Adapter Sound Card	Play Sound			Note
	Pass	Fail	N/A	
Creative Sound BLASTER Live5.1				
Adapter SCSI Card	Copy files to SCSI HDD			Note
	Pass	Fail	N/A	
ADAPTEC Ultra160 SCSI ASC-29160				
Adapter Image Capture Card	Connect to CCD			Note
	Pass	Fail	N/A	
I-VIEW CP-1400AS (with Age STD-477FAI CCD)				
Adapter LAN Card	Connect to Internet			Note
	Pass	Fail	N/A	
Intel GD82559 10/100 Mbps Fast Ethernet Adapter				
INTEL PWLA8391GTBLK Pro/1000 Giga LAN Card				
Adapter RAID Card	RAID 0 , 1 , 10 Function Test			Note
	Pass	Fail	N/A	
ADAPTEC 1420SA RoHS 4-Port SATA II RAID				

4.2. PCI-Express Function Test [X] No Support

PCI-Express x1	Function Test			Note
	Pass	Fail	N/A	
SUNIX SATA1414 eSATA & SATAII x1Express card				
Syskonnect SK-9E21D 10 /100/1000 Base-T Adapter				
PCI-Express x1 LAN Card				
PCI-Express x4	Function Test			Note
	Pass	Fail	N/A	
Adaptec AAR-1430SA SATAII HostRAID Controllers				
PCI-Express x16	Function Test			Note
	Pass	Fail	N/A	
ASUS EAX1600PRO/TD/256M/A (ATI Chipset) PCI-Express x16 VGA Card				
WINFAST PX6200 TC TDH PCI-Express x16 VGA Card				
Express card	Function Test			Note
	Pass	Fail	N/A	
SUNIX SATA II Express card				
SunBox 34mm Giga LAN Express Card				
Mini PCI Express Card	Function Test			Note
	Pass	Fail	N/A	
Ralink RT2571WF WLAN Mini Card (USB Interface)				
Sil3132 Mini PCI-E Function Test Card (USB Interface)				

4.3. Mini PCI Card Compatibility Test [X] No Support

Device Item	Function Test			Note
	Pass	Fail	N/A	
Mini PCI.10/100 Base-Tx LAN (W/Intel.82551QM .A1.0) (Model:PER-C10L)				
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)				
ADLINK mPCI-8750 ATI Rage XL Mini PCI VGA Card				

4.4. CardBus (PCMCIA) Compatibility Function Test [X] No Support

Device Item	Bit	Function Test			Note
		Pass	Fail	N/A	
Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW)	Slot 1 (Up) Slot 2 (Down)	16			[PC-200200]
Kingston datapack DP-PCM2 / 2GB (PC Card Typell HDD)	Slot 1 (Up) Slot 2 (Down)	32			[PC-200201]
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II	Slot 1 (Up) Slot 2 (Down)	32			[PC-200502]
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II	Slot 2 (Down)	16			[PC-200502]

4.5. ISA Slot Function Test [X] No Support

Test Item	Result			Note
	Pass	Fail	N/A	
SCSI Card Adaptec AHA-1520B SCSI Card				[SS-002]
LAN Card NE2000 Compatible LAN Card (RTL8019AS)				[NW-014]
VGA Card CIRRUS LOGIC 5429 FCC ID:ICUVGA-GWV27A				[VC-008]

4.6. Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules [X] No Support

4.6.1. Device List: PC/104 Module

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

4.6.2. Device List: PC/104+ Module

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

4.6.3. Device List: PCI-104 Module

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

4.6.4. Device List: PCI/104 Express Module

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

4.7. SSD Modules Compatibility Test No Support

SSD HDD Compatibility Test:

Cable Type: IDE SATA2 MLC SLC

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

4.8. Peripheral Compatibility- Storage Device Test No Support

4.8.1. Disk on Chip (DOC) Test

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				

4.8.2. Disk on module (DOM) Test

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

4.9. Riser Card Function Test No Support

Test Item	Result			Note
	Pass	Fail	N/A	
LAN				
PCI Slot				
PCI-e Slot				

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			+1.168	
Vcc 1.5V	X			+1.504	
3 VCC	X			+3.392	
5V	X			+5.184	
DDR	X			+1.808	
VBAT	X			3.312	
CPU Temperature	X			46°C	
SB Temperature	X			46°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	6.29	Sec	Press the Power Button till "Beep" Sound appears

6-3. Watchdog Timer Test

Use Function as below: W83627~1.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%	9.1	Sec	X			Software provided by Aaeon S/W
60 sec	+/- 10%	59.4	Sec	X			

7. O.S. Compatibility Test

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

[] No Support

Driver Information:

Chipset Software	Fedora 12 default driver
Graphics Media	Fedora 12 default driver
LAN Driver	e1000e-1.2.10 e1000-8.0.19
Audio Driver	realtek-linux-audiopack-5.15

Install OS to SATA HDD:

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

x32 Driver Information:

Chipset Software	Intel(R) Chipset Device Software: 9.1.1.1009(03/092009)
Graphics Media	Intel Graphics Media Accelerator 3150 8.14.10.2117 (04/19/2010)
LAN Driver	Intel(R)82567V-3 Gigabit Network Connection 10.1.9.0(2010/04/07)
	Intel(R)82583V Gigabit Network Connection 11.7.32.0(2010/07/08)
	Sierra Wireless HSPA Network Adapter 6.20.0.7(2009/07/22)
Audio Driver	Realtek ALC 888 HD Audio 6.0.1.6167(2010/07/28)

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: 9.1.1.1009(03/092009)
Graphics Media	Intel Graphics Media Accelerator 3150 6.14.10.5244 (03/17/2010)
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)
	Sierra Wireless HSPA Network Adapter 6.20.0.7(2009/07/22)
Audio Driver	Realtek ALC 888 HD Audio 5.10.0.6167(2010/07/28)

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 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	2733	-	
Memory	6599	-	
HDD	1276	-	
Benchmark (A)	-		
PCMark2005			XP and Windows 7
PCMark	2559	-	PCMarks
CPU	1973	-	
Memory	2480	-	
Graphics	719	-	
HDD	14349	-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
3Dmark2003 v360			Only for XP
3Dmark Score	869	-	
CPU Score	287	-	
Benchmark (A)	-		
3Dmark2005 v130			XP and Windows 7
3Dmark Score	320	-	
CPU Score	2054	-	
Benchmark (B)	-		
Average Efficiency	-		

Testing Software	Scope		Note
	AAEON	Ref.	
Final Reality V1.01—BenchMark Test			XP and Windows 7
2D image	20.19	-	
3D	3.93	-	
Bus transfer	35.48	-	
Overall	13.54	-	Reality marks
Benchmark (A)	-		

9-2. Memory Test

Test Item	Result			Note
	Pass	Fail	N/A	
MEM v4.20 Overnight Test	X			