

AEC-6611

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	0	0	0	0
Unsolved				

Issue date

2010 /10 / 05

Approval

Jansin Lee

Test Engineer

Anderson Lin

Platform Information:

Item	Device Information	Test Item
System	AEC-6611	1,2,3
PCB Model	GENE-9455 Rev B 1.0	1,2,3
BIOS / Version	AEC-6611 BIOS Rev 1.0(08/19/2010)	1,2,3
CPU Type	Intel ®Atom CPU N270@1.6GHz	1,2,3
Memory Type	DSL DDR2-667 512MB	1,2,3
SATA HDD	Fujitsu MHZ2080BH G2 2.5" SATA HDD	1,2,3
CRT Monitor	Viewsonic E653 15"	1,2,3
Operating System	Fedora Core 8 Kernel 2.6.23.1-42.fc8	1,2,3
	Windows 7 Ultimate 32Bit	1,2,3
	Windows XP Professional English SP3 32 Bit	1,2,3
Power Supply	DC Adapter :	1,2,3
	AC Adapter:EA1050A-120	
	AC INPUT:100-240V / DC OUTPUT:12V	

Summary Table of contents:

Platform Information	2
Summary Table of contents	3
1. I/O Peripheral Function Test	4
2. Timer Accuracy Test	7
3. Network HUB / LAN Connection Test	7
4. Hardware compatibility	8
5. O.S. Compatibility Test	12
6. BIOS Function Test	13
7. Performance Test	14

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.

Test Result for Certification

1. I/O Peripheral Function Test

I/O Function	Result			Note
	Pass	Fail	N/A	
Floppy Connector / Driver A:			X	
PATA Master			X	
PATA Slave			X	
SATA Port 0	X			
SATA Port 1			X	
SATA Port 2			X	
SATA Port 3			X	
SATA Port 4			X	
RAID 0 Function Test			X	
RAID 1 Function Test			X	
RAID 1+0 & RAID 5 Test			X	
SSD H.D Test			X	
SATA1 / Serial ATA Connector 1	X			
SATA2 / Serial ATA Connector 2			X	
SATA3 / Serial ATA Connector 3			X	
SATA4 / Serial ATA Connector 4			X	
SATA4 / Serial ATA Connector 5			X	
Compact Flash	X			
DOC (Disk On Chip)			X	
DOM (Disk On Module) – 40 Pin			X	
DOM (Disk On Module) – 44 Pin			X	
COM 1-232	X			
COM 2-232	X			
COM 3-232	X			
COM 4-232	X			
COM 5-232	X			
COM 6-232	X			
COM 7-232	X			
COM 8-232	X			
COM 2-422	X			
COM 2-485	X			

PS/2 Mouse & Keyboard			X	
Audio Connector			X	
LPT 1			X	
IrDA			X	
USB 1/2 Ports	X			
USB 3/4 Ports			X	
USB 5/6 Ports			X	
USB 7/8 Ports			X	
USB 9/10/11 Ports			X	
USB 2.0 1/2 Ports	X			
USB 2.0 3/4 Ports			X	
USB 2.0 5/6 Ports			X	
USB 2.0 7/8 Ports			X	
USB 2.0 9/10/11 Ports			X	
DIO Connector			X	
PC/104			X	
PC/104-Plus			X	
PCI-104			X	
CD-In Connector			X	
TFT TTL LCD			X	
TFT LVDS LCD			X	
LVDS Backlight Power Connector			X	
TV-out / AV Terminal			X	ViewSonic VT2430 LCDTV
TV-out / S-Video			X	ViewSonic VT2430 LCDTV
Component Video : Y/ Pb /Pr			X	ViewSonic VT2430 LCDTV
DVI Function			X	LG / L1753T / 17"
HDMI Output (Embedded Audio)			X	ViewSonic VT2430 LCDTV
Touch Screen – 8 Wire			X	
Touch Screen – 4/5 Wire			X	
DIMM Slots	X			
Watchdog Software Control	X			
FAN Connector			X	
AC/DC in Connector	X			
Power Button	X			

Battery Connector			X	
Front Panel	Result			Notes
	Pass	Fail	N/A	
Power On Button			X	
IDE LED			X	
External Buzzer			X	
On Board Buzzer			X	
Power LED			X	
Reset Switch			X	
Jumpers Function	Result			Notes
	Pass	Fail	N/A	
CMOS Clear Selection			X	
Auto PWRBTN Selection	X			Default ATX
Power Connector & Function	Result			Notes
	Pass	Fail	N/A	
Standard AT Power Connector			X	
Standard ATX Power Connector			X	
5V Only Power Connector			X	
AC/DC Adapter	X			
LAN Connector & Function	Result			Notes
	Pass	Fail	N/A	
LAN Link / Speed LED	LAN1	X		
	LAN2	X		
LAN Active LED	LAN1	X		
	LAN2	X		
LAN 10/100 Ethernet	X			
LAN 1G Ethernet	X			
PCI Connector & Function	Result			Notes
	Pass	Fail	N/A	
PCI Slot			X	
Mini PCI Slot			X	
PCI Express x1 & x4			X	
PCI Express x16			X	
Mini PCI Express card (Mini Card)			X	

Express card (PCMCIA)			X	
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2. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A
RTC Clock in Power On Mode	±3 second during 24 hours	X		
RTC Clock in Power Off Mode	±3 second during 24 hours	X		
Watchdog Timer Test		Result		
		Pass	Fail	N/A
Time-out Interval	10 sec	X		
	60 sec	X		
	255 sec	X		

3. Network HUB / LAN Connection Test

Location		LED Type				Result		
						Pass	Fail	N/A
LAN1 LED		Link / Speed LED				X		
		Active LED				X		
LAN2 LED		Link / Speed LED				X		
		Active LED				X		
Location	Speed	HUB Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
Onboard LAN1	10/100/1000 Mbps	D-Link DGS-1008T	100M	1GBps	1000	X		
		Accton DeskTop-3005	100M	100 MBps	100	X		
		SVEC FD916H (10 Mbps HUB)	100M	10 MBps	10	X		
Onboard LAN2	10/100/1000 Mbps	D-Link DGS-1008T	100M	1GBps	1000	X		
		Accton DeskTop-3005	100M	100 MBps	100	X		
		SVEC FD916H (10 Mbps HUB)	100M	10 MBps	10	X		

4. Hardware Compatibility

CPU Compatible Test							
CPU Type	FSB	Prime95 Version	Result				
			Pass	Fail	N/A		
Intel(R) Atom(TM) CPU N270 1.6GHz	533 MHz	V25.9	X				
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result		
					Pass	Fail	N/A
DSL	ELPIDA	DDR2-667	512MB	V 4.10	X		
Audio Basic Function Test					Result		
					Pass	Fail	N/A
System Sound							X
CD_In							X
CD_In Sound Recorder							X
Play Sound Recorder							X
Line Out							X
Line In							X
Line In Sound Record							X
MIC Speaker			Condenser				X
MIC Sound Recorder			Condenser				X
Audio 5.1 Channel with S/P DIF Function Test					Result		
					Pass	Fail	N/A
2-channel mode for stereo speaker output							X
4-channel mode for 4 speaker output							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
On Board TV Function Test					Result		
					Pass	Fail	N/A
NTSC	AV Terminal					X	
PAL						X	
NTSC	S Terminal					X	
PAL						X	
On Board LCD Function Test							

TFT LCD	Type	Voltage	Result		
			Pass	Fail	N/A
LVDS	AUO G065VN01 V.0 / 6.5" / 640x480 / 18bit (4:3)	3.3V			X
	AUO G065VN01 V.0 / 6.5" / 640x480 / 24bit (4:3)	3.3V			X
	Data Image 7" / 800*480 / 18bit (16:9)	3.3V			X
	AU G084SN05 V.3 / 8.4" / 800*600 / 18bit (4:3)	3.3V			X
	AUO G084SN05 v7 / 8.4" / 800*600 / 24bit (4:3)	3.3V			X
	AU G150XG01 V.0 / 15" / 1024*768 / 18bit (4:3)	3.3V			X
	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3)	5V			X
	Toshiba /12.1"/1280 x 768 x 18bit (16:9)	5V			X
	AU M170EG01 V.D/ 17"/ 1280*1024 / 48bit (4:3)	5V			X
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	5V			X
	AUO T260XW02 / 26" / 1366x768 / 24bit	5V			X
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	5V			X
	AUO T370HW01 / 37" / 1920x1080 / 48bit	12V			X
	AUO M190PW01 V0 / 19"/1440X900/48 bit	5V			X

PCI Slot Function (PCI Adapter Card) Test

Model	Type	Result		
		Pass	Fail	N/A
CHANTECH NVIDIA GeForce4 MX440-8X	VGA Card			X
Creative Sound BLASTER Live5.1	Sound Card			X
ADAPTEC Ultra160 SCSI ASC-29160	SCSI Card			X
I-VIEW CP-1400AS (with Age STD-477FAI CCD)	Capture Card			X
Intel GD82559 10/100 Mbps Fast Ethernet Adapter	LAN Card			X
3Com 3C905C-TXM ETHERLINK 10/100 PCI	LAN Card			X
D-Link DWL-520+ Wireless LAN	LAN Card			X
D-Link DU-520 USB 2.0	USB Hub Card			X
Tekram TR-822 Serial ATA 150 [SA-001] + SATA HDD Seagate ST3120026AS 120GB	SATA Card			X

ISA Slot Function Test

	Result		
	Pass	Fail	N/A
NE2000 Compatible LAN Card (RTL8019AS)			X
Adaptec AHA-1510/20/22B SCSI Card			X

PCI-Express Function Test

Model	Result		
	Pass	Fail	N/A
SUNIX SATA1414 VER 1.1 PCI-Express x1 SATA Card			X
SksKonnnect SK-9E21D 10/100/1000 Base-T Adapter PCI-Express x1 LAN Card			X
Adaptec AAR-1430SA SATAII HostRAID Controllers PCI-Express x4 RAID Card			X
ASUS EAX1600PRO/TD/256M/A (ATI Chipset) PCI-Express x16 VGA Card			X
WinFast PX6200 TC TDH PCI-Express x16 VGA Card			X
SunBox 34mm Giga LAN Express Card			X

Ralink RT2571WF WLAN Mini Card(USB Interface)				X
HDD Compatibility Test				
Model		Result		
		Pass	Fail	N/A
Fujitsu MHZ2080BH G2 2.5" SATA HDD		X		
IDE Cable Function test				
IDE Model		Result		
		Pass	Fail	N/A
40 Pin Cable ATA100				X
44 Pin Cable ATA33				X
80 Pin Cable ATA100				X
USB Function Test				
USB Basic Function Test		Result		
		Pass	Fail	N/A
Mitsumi FLL3.5 D353GUE/FUE		X		
USB HDD 20GB		X		
USB Card Reader		X		
USB Mouse		X		
USB Flash drive Transcend 2GB		X		
USB 2.0 Function Test		Result		
		Pass	Fail	N/A
Install Windows XP Professional from HighSpeed Device: USB2.0 DRW-1604P-D/WHT/G/ASUS		X		
Peripheral Compatibility-Storage Device				
Model		Interface		Result
				Pass
Type-I CF		Fix / PIO Mode		X
Type-I CF		Fix / UDMA Mode		X
Digital I/O Connector Test		Result		
		Pass	Fail	N/A
Input Address:				X
Output Address:				X
VCC: (5V)				X
DIO-1 Function Test				X
DIO-2 Function Test				X
Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules				
Interface	Model	Type	Result	
			Pass	Fail

PC/104	AAEON PCM-3600	Lan Module			X
PC/104+	AAEON PCM-3430	SCSI Module			X
PCI-104	AAEON PCM-3730	Intel 82559 LAN Module			X
PCI/104 Express	AAEON PER-123				X

On-Board RAID Function Test

Model	Interface	Result		
		Pass	Fail	N/A
Set SATA HDDs as RAID 0	SATA			X
Set SATA HDDs as RAID 1	SATA			X
Set SATA HDDs as RAID 10	SATA			X
Set SATA HDDs as RAID 5	SATA			X

COM Function Test

	Result		
	Pass	Fail	N/A
COM Port Burn In Test overnight	X		

Disk On Module [DOM] Compatibility Test

Model	Interface	Result		
		Pass	Fail	N/A
Transcend / TS512MDOM40V / 512MB	IDE 40 Pin			X
Transcend / TS512MDOM44V / 512MB	IDE 44 Pin			X

Mini PCI Card Compatibility Test

Model	Interface	Result		
		Pass	Fail	N/A
Mini PCI.10/100 Base-Tx LAN (W/Intel.82551QM .A1.0) (Model:PER-C10L)	LAN			X
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	WLAN			X

COM/LPT Ports & RS-232/422/485 Function Test

	Result		
	Pass	Fail	N/A
RS-422 for COM2	X		
RS-485 for COM2	X		
COM1	X		
COM2	X		
COM3	X		
COM4	X		
COM5	X		
COM6	X		
COM7	X		
COM8	X		
LPT1			X

Card Bus(PCMCIA) Compatibility Function Test

Model	Result		
	Pass	Fail	N/A
Intel PRO/Wireless 2011B LAN PC Card (WPC2011BWW)			X
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)			X
Kingston datapack DP-PCM2 / 2GB (PC Card Typell HDD)			X
PCI GW-NS54SG Cardbus Adapter Wireless LAN Type-II			X

5. O.S. Compatibility Test

Installation Operation System Compatibility Test			Result		
			Pass	Fail	N/A
Windows XP Professional English Version Service Pack 3			X		
Windows 7 English Ultimate 32Bit			X		
Fedora 8			X		
Utility and Driver Test					
OS	Drivers Version		Result		
			Pass	Fail	N/A
Windows XP Professional English Version Service Pack 3	Chipset Software	Intel(R) Chipset Device Software 9.1.1.1019 8/18/2009	X		
	Graphics Media	Mobile Intel ® 945 Express Chipset Family 6.14.10.4926 (2/28/2008)	X		
	LAN Driver	Intel ®82574L Gigabit Network Connection11.4.7.0(12/4/2009)	X		
		Intel ®82574L Gigabit Network Connection11.4.7.0(12/4/2009)	X		
Windows 7 English Ultimate 32Bit	Chipset Software	Intel ® Chipset Device Software 9.1.1.1019(8/18/2009)	X		
	Graphics Media	Intel ® GMA Driver15.12.75.4.1930(10/02/2009)	X		
	LAN Driver	Intel ®82574L Gigabit Network Connection 11.4.7.0(12/4/2009)	X		
		Intel ®82574L Gigabit Network Connection 11.4.7.0(12/4/2009)	X		

Fedora 8	Chipset Software	Fedora 8 Default Driver	X		
	Graphics Media	Fedora 8 Default Driver	X		
	LAN Driver	Fedora 8 Default Driver	X		

6. BIOS Function Test

Item	Result		
	Pass	Fail	N/A
Memory Beep Test			X
Standard CMOS Setup Test	X		
Boot Sequence Test	X		
Power Management Test			
ATX Power Management Test	X		
AT Power Management Test			X
Power On Function Test			X
Wake Up Event Test	X		
Power On after Power Failure Test	X		
CMOS Backup / Clear CMOS Test			X
Boot ROM Test (RPL/PXE)	X		
Supervisor / User Password Test	X		
CRT / LCD / TV / DVI Function Test	X		
TV Standard Function Test			X
Init Display First Function Test			X
On-Chip Serial ATA Function Test	X		
SATA Mode-IDE/RAID Function Test			X
PC Health	X		
USB Onboard Device Function Test	X		
BIOS AWDFLASH Program Test	X		
AAEON Tag Check Utility	X		

7. Performance Test

Platform Information

PCB Board	GENE-9455 Rev B 1.0
BIOS	AEC-6611 BIOS Rev 1.0(08/19/2010)
Operating System	Windows XP Professional English SP3 32 Bit
CPU	Intel ®Atom CPU N270@1.6GHz
Memory	DSL DDR2-667 512MB
SATA HDD	Fujitsu MHZ2080BH G2 2.5" SATA HDD
CRT Monitor	Viewsonic E653
Chipset Software	Intel(R) Chipset Device Software 9.1.1.1019 8/18/2009
Graphics Media	Mobile Intel ® 945 Express Chipset Family 6.14.10.4926 (2/28/2008)
LAN Driver	Intel ®82574L Gigabit Network Connection 11.4.7.0(12/4/2009)
	Intel ®82574L Gigabit Network Connection 11.4.7.0(12/4/2009)
Audio Driver	N/A
Power Supply	AC Adapter:EA1050A-120
	AC INPUT:100-240V / DC OUTPUT:12V

Test Result:

Testing Software	Result	Unit
PCMark2002		
CPU	2647	
Memory	5833	
HDD	1497	
Final Reality V1.01—BenchMark Test		
2D image	18.35	
3D	3.93	
Bus transfer	29.71	
Overall	12.12	Reality marks
3Dmark2001		
3Dmark2001SE Build 330_Benchmark mode	2702	

Test Result:

Testing Software	Result	Unit
PCMark05		

PCMark	1497	PCMarks
CPU	1479	
Memory	2329	
Graphics	432	
HDD	4600	
3Dmark2003 v360		
3Dmark Score	678	
CPU Score	243	