



## Summary Table of Contents:

Summary Table of contents	2
Platform Information	3
1. OSD Control Function Test	4
2. I/O Peripheral Function Test	4
3. Power Consumption Test	7
4. Timer Accuracy Test	8
5. Network HUB / LAN Connection Test	8
6. Hardware compatibility	9
7. O.S. Compatibility Test	14
8. BIOS Function Test	16
9. Performance Test	17

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 specification or no test equipment

**Platform Information:**

Item	Device Information	Test Item
System	AEC-6905	
PCB Model / Version	ETX-821/855 A1.2-A	
BIOS / Version	AEC-6905 BIOS Rev 1.0 (02/13/2008)	
CPU Type	Intel Celeron M 600MHz Onboard CPU Intel Celeron M 1.5GHz Socket CPU	
Memory Type	DSL DDR333 SODIMM SDRAM 512MB (hynix HY5DU121622CTP-J)	
SATA HDD	Seagate ST98823AS 2.5" 80GB HDD Seagate ST380815AS 3.5" 80GB HDD	
Primary IDE Master	N/A	
Primary IDE Slave	N/A	
CRT	ViewSonic E70	
LCD	AU G150XG01 V.0 1024x768x18Bit 15" LVDS panel	
Compact Flash	Transcend TS4GCF45I 4GB for Industrial Type-I CF / Fix / PIO mode Transcend TS4GCF45I-D 4GB for Industrial Type-I CF / Fix / UDMA mode	
Riser Card	1907R15P01 Rev.1.0	
Carrier Board	AEC-6905 A1.0	
Inverter	N/A	
Daughter Board	N/A	
I/O Board	N/A	
Touch Panel	N/A	
Operating System	Fedora Core 5	7
	Windows Server 2003 English Version / Standard Edition 5.2.3790	N/A
	Windows Server 2003 English Version /Standard x64 Edition	N/A
	Windows XP Professional English Version V2002 Service Pack 2	2,3,4,5,6,7,8,9
	Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	7
	Windows XP Professional Japanese Version V2002 Service Pack 2	7
	Windows XP Professional English Version /Standard x64 Edition	N/A
	Windows 2000 Professional English Version V5.00.2195 Service Pack4	N/A
	Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4	N/A
	Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4	N/A
	Windows Server 2000 English Version	N/A
	Windows 98SE English Version V4.10.2222A	N/A
	MS-DOS 6.22 English Version	2,4,6,7,8
Adapter	FSP FSP120-AAB AC/DC Adapter (19V, 6.32A)	1,2,3,4,5,6,7,8,9

## Test Result for Certification

### 1. OSD Control Function Test

Test Method	Result		
	Pass	Fail	N/A
OSD Control Test			X
OSD – On Screen Display Test			X
OSD Light Test			X

### 2. I/O Peripheral Function Test

I/O Function	Result			Note
	Pass	Fail	N/A	
Floppy Connector / Driver A:			X	
Primary IDE Master	X			
Primary IDE Slave			X	No connected
Secondary IDE Master	X			Reserved for CF
Secondary IDE Slave			X	
Third IDE Master			X	
Third IDE Slave			X	
RAID 0 Function Test	X			CN8, CN9 (By Silicon Image Sil3512ECTU128)
RAID 1 Function Test	X			
SATA1 / Serial ATA Connector 1	X			CN8
SATA2 / Serial ATA Connector 2	X			CN9
Compact Flash – Type I	X			CF is fixed on secondary IDE master channel
Compact Flash – Type II			X	No device
DOC (Disk On Chip)			X	
DOM (Disk On Module) – 40 Pin			X	Transcend / TS512MDOM40V / 512MB / IDE 40 Pin
DOM (Disk On Module) – 44 Pin	X			Transcend / TS512MDOM44V / 512MB / IDE 44 Pin
COM 1-232	X			
COM 2-232	X			
COM 2-422	X			
COM 2-485 (selected by jumper)			X	ICP CON I-7044D D/IO Module
COM 2-Ring /+5V /+12V	X			JP3, Selected by jumper
COM 3-232	X			
COM 4-232	X			
COM 5-232			X	
COM 6-232			X	
PS/2 Mouse & Keyboard (Internal)			X	
PS/2 Mouse & Keyboard (External)	X			
Audio Connector	X			AUDIO1
Audio 5.1 Channel / S/P DIF			X	
LPT 1			X	
LPT 2			X	
SIR / 115.2 Kbps			X	
FIR / 4M bps			X	
USB 1/2 Ports	X			RJUSB1,
USB 3/4 Ports	X			RJUSB2

USB Port			X	CN4, It can not work because that USB chip is not mounted on PCB
USB 2.0 1/2 Ports	X			RJUSB1,
USB 2.0 3/4 Ports	X			RJUSB2
USB Port			X	CN4, It can not work because that USB chip is not mounted on PCB
DVI Function			X	
DIO Connector			X	CN3, RD says that it has no need to test
Card Bus			X	
PC/104			X	
PC/104-Plus	X			CN5.
PCI-104			X	
CD-In Connector			X	
TFT TTL LCD			X	
TFT LVDS LCD	X			CN2.
TV-out / S Terminal			X	CPU board has this function but it is not used for AEC-6905
TV-out / AV Terminal			X	
Touch Screen – 8 Wire			X	
Touch Screen – 5 Wire			X	
DIMM Slots	X			
Watchdog IRQ n			X	
Watchdog Software Control	X			I/O chipset: ITE IT8712F-A/IX-L (on CPU board)
CPU FAN Connector			X	
System FAN Connector			X	
Front Panel	Result			Notes
	Pass	Fail	N/A	
Power On Button	X			SW2
IDE LED	X			
External Buzzer			X	
On Board Buzzer	X			BZ1
Power LED	X			
Reset Switch	X			S1
Keyboard Lock			X	
Jumpers Function	Result			Notes
	Pass	Fail	N/A	
AT/ATX Power Select	X			JP1
ATX Power Select	X			JP2
COM2 Pin 9 Select	X			JP3
COM2 RS-232/422/485 Select	X			JP4
Reserved connector			X	JP5
COM2 RS-232/422/485 Select	X			JP6
ETX-4 Pin D90 Select			X	JP7, RD says that it does not need to test
ETX-4 Pin D19 Select			X	JP8, RD says that it does not need to test
ETX-4 Pin D35 Select			X	JP9, RD says that it does not need to test
WDT Reset IOCHCK# Select			X	JP10, RD says that it does not need to test
RTC Battery Select	X			JP11
USB HUB Select			X	JP13, RD says that it does not need to test
USB HUB Select			X	JP14, RD says that it does not need to test
PS2 Keyboard/Mouse Power Select			X	JP15, RD says that it does not need to test
PC104 PLUS Power Select	X			JP16, Default value is 3.3V
LVDS Power Select	X			JP17
AT/ATX Power Select	X			JP18
AT/ATX Power Select	X			JP19

Power Connector & Function		Result			Notes
		Pass	Fail	N/A	
AT Switch		X			SW1
ATX Switch		X			SW2
Big 4P (output)		X			CN1
Phoenix Connector		X			FSP FSP120-AAB AC/DC Adapter (19V, 6.32A)
LAN Connector & Function		Result			Notes
		Pass	Fail	N/A	
LAN Link / Speed	LAN1	X			LED on RJ45
LED	LAN2			X	
LAN Active LED	LAN1	X			LED on RJ45
	LAN2			X	
LAN 10/100 Ethernet		X			
LAN 1G Ethernet				X	
PCI Connector & Function		Result			Notes
		Pass	Fail	N/A	
Mini PCI Slot		X			
PCI Slot		X			
PCI Express				X	NW-200503 / NW-200504

### 3. Power Consumption Test (Run Prime95 Program)

#### Platform Information

System	AEC-6905
PCB Model / Version	ETX-821/855 A1.2-A
BIOS	AEC-6905 BIOS Rev 0.5 (09/21/2007)
Operating System	Windows XP Professional English Version V2002 Service Pack 2 MS-DOS
CPU Type	List as following
Memory	List as following
SATA HDD	N/A
Primary IDE Master	List as following
Primary IDE Slave	N/A
CRT	ViewSonic E70
LCD	N/A
Compact Flash	N/A
Backplane	N/A
Riser Card	1907R15P00 Rev.0.1
Chipset Software	Intel® Chipset Software Installation Utility 6.0.1.1002
Graphics Media	Intel® 82852/82855 GM/GME Graphics Controller 6.14.0.3865 7/1/2004
LAN Driver	Intel® PRO/100 VE Network Connection 7.1.12.0 2/10/2004
Audio Driver	Realtek AC'97 Audio 5.10.0.5630 7/1/2004
Touchscreen Driver	N/A
Power Supply	FSP FSP120-AAB AC/DC Adapter (19V, 6.32A)

#### Test Equipment:

Equipment	GW instek Programmable Power Supply PSH-6018 (DC Power Supply)
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- Test Point: 1. Power on machine and boot into Windows environment  
 2. Run test software: Prime95 to make system heavy loading in order to measure its maximum current  
 3. Use GW instek Programmable Power Supply PSH-6018 to measure total current of system

	CPU: Intel Celeron M 600MHz Onboard CPU		CPU: Intel Celeron M 1.5GHz Socket CPU		Note				
	Memory: Kingston DDR400 SODIMM SDRAM 1GB (0728SPR V58C2512804SBJ5)		Memory: ATP DDR333 SODIMM SDRAM 1GB (SAMSUNG K4H510838D-ZCCC)						
	HDD: Fujitsu MHV2040AC 2.5" IDE HDD 40GB		HDD: Fujitsu MHV2040AC 2.5" IDE HDD 40GB						
Os Environment	Windows XP Professional ACPI								
Test condition	Standby power when power off	Prime 95	Suspend from XP (S1)	Rush current during boot to Windows	Standby power when power off	Prime 95	Suspend from XP (S1)	Rush current during boot to Windows	
9V	0.29A	2.1A	1.2A	2.1A	0.30A	3.0A	1.54A	2.7A	
12V	0.29A	1.8A	0.94A	1.6A	0.30A	2.30A	1.24A	2.2A	
18V	0.29A	1.2A	0.56A	1.1A	0.34A	1.8A	0.92A	1.54A	
24V	0.29A	0.8A	0.46A	0.87A	0.35A	1.3A	0.7A	1.3A	
30V	0.29A	0.73A	0.41A	0.77A	0.34A	1.1A	0.62A	1.2A	
19V	0.31A	1.1A	0.63A	1.1A	0.30A	1.8A	0.8A	1.5A	(Same with adapter)

#### 4. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A
System Clock in Power On Mode	±3 second during 24 hours			X
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		
I/O chipset: ITE IT8712F-A/IX-L (on CPU board)		Pass	Fail	N/A
Time-out Interval	10 sec	X		
	60 sec	X		
	255 sec	X		

Remark: RD says that WDT function only works fine on ITE IT8712F-A/IX-L (on CPU board) but not for Winbond W83977EG-AW (on carrier board) due to lack of one resistor

#### 5. Network HUB / LAN Connection Test

Location		LED Type				Result		
						Pass	Fail	N/A
LAN1 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	HP J4095A 24 Ports	100M	100 MBps	100	X		
		D-Link DGS-1008T	100M	1GBps	100	X		
		D-Link DES-1316 PoE Switch	100M	100 MBps	100	X		
		Intel InBusiness 8 Port	100M	100 MBps	100	X		
		Accton DeskTop-3005	100M	100 MBps	100	X		
		SVEC FD916H (10 Mbps HUB)	100M	10 MBps	10	X		



## 6. Hardware Compatibility

CPU Compatible Test							
CPU Type	FSB	Prime95 Version	Result				
			Pass	Fail	N/A		
Intel Celeron M 600MHz Onboard CPU		V2414	X				
Intel Celeron M 1.5GHz Socket CPU		V2414	X				
Memory Compatibility Test							
Memory Brand	Memory Chipset	Frequency	Size	MemTest86 Version	Result		
					Pass	Fail	N/A
DSL DDR SODIMM	ELPIDA D5116AFTA-6B-E	DDR333	512MB	V1.65	X		
Transcend DDR SODIMM	SAMSUNG K4H510838D-ZCCC	DDR333	1GB	V1.65	X		
Transcend DDR SODIMM	HYNIX HY5DU12822CTP-D43	DDR333	512MB	V1.65	X		
Kingston DDR SODIMM	NANYA NT5DS16M16CT-6K 54937300CP	DDR333	256MB	V1.65	X		
DDR SODIMM	ELPIDA DD2508AMTA	DDR400	256MB	V1.65	X		
Kingston DDR SODIMM	0728SPR V58C2512804SBJ5	DDR400	1GB	V1.65	X		
ATP DDR SODIMM	SAMSUNG K4H510838D-ZCCC	DDR333	1GB	V1.65	X		
On Board Audio Function Test					Result		
Remark: PPC audio cable is made for line-in/line-out/mic-in					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				Dynamic	X		
				Condenser	X		
MIC Sound Recorder				Dynamic	X		
				Condenser	X		
Audio 5.1 Channel with S/P DIF Function Test					Result		
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
S/P DIF function Test				Input			X
				Output			X

On Board TV Function Test			Result		
Remark: CPU board has this function but it is not used for AEC-6905			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	AU G084SN05_V0 / 800x600x18bit / 8.4" / Color TFT LVDS (Onboard LCD)	3.3V	X		
	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		
	AU B104SN02 / 10.4" / 800*600 / 18bit (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)	3.3V	X		
	AU M170EG01 / 17" / 1280*1024 / 48bit (4:3)	5V	X		
	AU M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	5V			X
	AUO T260XW02 / 26" / 1366x768 / 24bit				X
	AU M201UN02 V.5 / 20.1" / 1600x1200x48bit	5V			X
	AUO T370HW01 / 37" / 1920x1080 / 48bit				X
TTL	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit (4:3)	5V			X
	NEC NL8060AC31-12 / 12.1" / 800*600 / 18bit (4:3)	3.3/5V			X
	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit (4:3)	3.3V			X
	LG LM151X2-C2TH / 15.1" / 1024x768 / 18bit (4:3)	3.3V			X
	Fujitsu FLC38XGC6V-06 / 15" / 1024*768 / 36bit (4:3)	5V			X
PCI Slot Function (PCI Adapter Card) Test					
Model	Type	Result			
		Pass	Fail	N/A	
CECUBE GC-R9250PCI-D3 (ATI REDEON9250 256MB)	VGA Card			X	
CHAINTECH NVIDIA GeForce4 MX440-8X	VGA Card	X			
SC3000 CMI8738/C3DX	Sound Card			X	
Takram DC-395U V1.02	SCSI 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			
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	RAID Card	X			
LEMEL MD V1456VQH-P2 PCI MODEM Card	Modem 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
Creative CT4170 Sound Blaster Sound Card			X
Adaptec AHA-1510/20/22B SCSI Card			X
<b>PCI-Express Function Test</b>			
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
<b>HDD Compatibility Test</b>			
Model	Result		
	Pass	Fail	N/A
Fujitsu MHV2040AC 2.5" IDE HDD 40GB	X		
Fujitsu MHV2040AT 2.5" IDE HDD 40GB	X		
Fujitsu MHT2020AC 2.5" IDE HDD 20GB	X		
Seagate ST98823AS 2.5" SATA HDD 80GB	X		
Seagate ST380815AS 3.5" SATA HDD 80GB	X		
Western Digital WD1200BEVS-60RST0 2.5" SATA HDD 120GB	X		
<b>CD-ROM Compatibility Test</b>			
Model	Result		
	Pass	Fail	N/A
ASUS DVD-E818A 18X 5.25" IDE DVD-ROM	X		
BenQ 1650V DVD-ROM 5.25" IDE DVD-ROM	X		
Pioneer DVD-ROM DVD-121	X		
Acer DVD-ROM DVP 1640A	X		
<b>IDE Cable Function test</b>			
IDE Model	Result		
	Pass	Fail	N/A
40 Pin Cable ATA100			X
44 Pin Cable ATA33	X		
80 Pin Cable ATA100			X
<b>USB Function Test</b>			
USB Basic Function Test (1) USB speed is not displayed during POST no matter you connect USB 1.1 or 2.0 devices (2) CN4 connector is reserved for USB port using. RD says that it can not work due to USB chip doesn't mount on PCB	Result		
	Pass	Fail	N/A
USB Controller	X		
USB 2.0 Controller	X		
USB Keyboard Support	X		
USB Mouse Support	X		

USB 1.1 Compatible Test		Result						
		Pass	Fail	N/A				
USB 1.1 Compatible Test		X						
USB 2.0 Compatible Test		Result						
		Pass	Fail	N/A				
USB 2.0 Compatible Test		X						
USB 2.0 Function Test		Result						
		Pass	Fail	N/A				
Install Windows XP Professional from USB2.0 SONY USB2.0/IEEE1394 + DRX8300UL		X						
USB Device Full Loading Test		Result						
		Pass	Fail	N/A				
Model								
(RJUSB1) USB2.0 SONY USB2.0/IEEE1394 + DRX8300UL		X						
(RJUSB1) USB HDD IBM IC25N020ATCS04-0 / 20GB / 4200RPM		X						
(RJUSB2) Transcend JetFlash Flash disk V30 2GB		X						
(RJUSB2) PQI USB 2.0 Flash disk U310 1GB		X						
Floppy Disk Controller Function Test		Result						
		Pass	Fail	N/A				
Copy and compare file between C: and A / B:				X				
Change Floppy to None value				X				
Swap FDD				X				
Peripheral Compatibility-Storage Device								
Model		Interface		Result				
				Pass	Fail	N/A		
FUJITSU MCB3064SS		SCSI				X		
IOMega ZIP 100 parallel port		Parallel				X		
IOMega ZIP100MB Internal ATAPI Drive		IDE				X		
DOC						X		
Type-I CF (Transcend TS4GCF45I 4GB for Industrial)		Fix / PIO Mode		X				
Type-I CF (Transcend TS4GCF45I-D 4GB for Industrial)		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	N/A

PC/104	AAEON PCM-3660 (LAN Module)	We must set PCM-3660 as PnP mode by using RTL8019 DOS utility	X		
	AAEON PCM-5600	Modem Module	X		
	AAEON PCM-3115B	PCMCIA Module	X		
PC/104+	AAEON PCM-3430 (1) RD says that only IDSEL0 and IDSEL1 can be used for AEC-6905 (2) JP16 set to 3.3V for AEC-6905	SCSI Module	X		
PCI-104	AAEON PCM-FA00	Mini-PCI Converter	X		
	AAEON PCM-3794	SCSI Module			X
	AAEON PCM-3730	Intel 82559 LAN Module	X		

**RAID Function Test**

(CN8, CN9. provide by Silicon Image Sil3512ECTU128)

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 Send / Receive Test [Version:1.01]	X		
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
GM-100 WLAN 11g Mini PCI Card (Model: Sky Thru GC-100)	LAN	X		
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	LAN	X		
PER-C20S SATA RAID MiniPCI Card (Silicon Image Sil3512ECTU128 QF7227.1-1)	SATA			X

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

	Result		
	Pass	Fail	N/A
RS-422 for COM2	X		
RS-485 for COM2 (No autoflow circuit on CPU board)			X
COM1	X		
COM2	X		
COM3	X		
COM4	X		

COM5			X
COM6			X
LPT1			X
LPT2			X
<b>Card Bus(PCMCIA) Compatibility Function Test</b>			
<b>Model</b>	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
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 TypeII HDD)			X
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II			X
	<b>Result</b>		
	<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
Modular System Industrial Workstation Function Test	X		
Mechanism construction check	X		

## 7. O.S. Compatibility Test

<b>Installation Operation System Compatibility Test</b>		<b>Result</b>			
		<b>Pass</b>	<b>Fail</b>	<b>N/A</b>	
Fedora Core 5.0 (Linux 2.6.15-1.2054_FC5)		X			
Windows Server 2003 English Version / Standard Edition 5.2.3790				X	
Windows Server 2003 English Version /Standard x64 Edition				X	
Windows XP Professional English Version V2002 Service Pack 2		X			
Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2		X			
Windows XP Professional Japanese Version V2002 Service Pack 2		X			
Windows XP Professional English Version /Standard x64 Edition				X	
Windows 2000 Professional English Version V5.00.2195 Service Pack4				X	
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4				X	
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4				X	
Windows Server 2000 English Version				X	
Windows 98SE English Version V4.10.2222A				X	
DOS 6.22 English Version		X			
DOS 6.22 Japanese Version		X			
<b>Utility and Driver Test</b>					
<b>OS</b>	<b>Drivers Version</b>		<b>Result</b>		
			<b>Pass</b>	<b>Fail</b>	<b>N/A</b>
Fedora Core 5.0 (Linux 2.6.15-1.2054_FC5)	Chipset Software	Use Default drivers	X		
	Graphics Media		X		
	LAN Driver		X		
	Audio Driver		X		
Windows Server 2003 English Version Standard Edition 5.2.3790	Chipset Software			X	
	Graphics Media			X	
	LAN Driver			X	
	Audio Driver			X	

Windows Server 2003 English Version Standard x64 Edition	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows XP Professional English Version V2002 Service Pack 2	Chipset Software	Intel® Chipset Software Installation Utility 6.0.1.1002	X		
	Graphics Media	Intel® 82852/82855 GM/GME Graphics Controller 6.14.0.3865 7/1/2004	X		
	LAN Driver	Intel® PRO/100 VE Network Connection 7.1.12.0 2/10/2004	X		
	Audio Driver	Realtek AC'97 Audio 5.10.0.5630 7/1/2004	X		
Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	Chipset Software	Intel® Chipset Software Installation Utility 6.0.1.1002	X		
	Graphics Media	Intel® 82852/82855 GM/GME Graphics Controller 6.14.0.3865 7/1/2004	X		
	LAN Driver	Intel® PRO/100 VE Network Connection 7.1.12.0 2/10/2004	X		
	Audio Driver	Realtek AC'97 Audio 5.10.0.5630 7/1/2004	X		
Windows XP Professional Japanese Version V2002 Service Pack 2	Chipset Software	Intel® Chipset Software Installation Utility 6.0.1.1002	X		
	Graphics Media	Intel® 82852/82855 GM/GME Graphics Controller 6.14.0.3865 7/1/2004	X		
	LAN Driver	Intel® PRO/100 VE Network Connection 7.1.12.0 2/10/2004	X		
	Audio Driver	Realtek AC'97 Audio 5.10.0.5630 7/1/2004	X		
Windows XP Professional x64 Edition English Version Service Pack 2 V2002	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows Server 2000 English Version	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X

Windows 98SE English Version V4.10.2222A	Chipset Software			X
	Graphics Media			X
	LAN Driver			X
	Audio Driver			X

## 8. BIOS Function Test

Test Item	Result		
	Pass	Fail	N/A
Memory Beep Test	X		
Standard CMOS Setup Test	X		
Boot Sequence Test	X		
<b>Power Management Test</b>			
APM Power Management Test	X		
ACPI 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 (Only PXE)	X		
Supervisor / User Password Test	X		
CRT / LCD 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
<b>PC Health Status</b>			
Voltage Monitor Test	X		
FAN Speed Monitor Test	X		
Temperature Monitor Test	X		
Swap Floppy Drive & Boot up Floppy Seek Function Test			X
USB Onboard Device Function Test	X		
COM Address / IRQ Test	X		
LPT Address / IRQ Test			X
BIOS AWDFLASH Program Test	X		



## 9. Performance Test

### Platform Information:

System	AEC-6905
PCB Model / Version	ETX-821/855 A1.2-A
BIOS	AEC-6905 BIOS Rev 0.5 (09/21/2007)
Operating System	Windows XP Professional English Version V2002 Service Pack 2 MS-DOS
CPU Type	Intel Celeron M 1.5GHz Socket CPU
Memory	Transcend DDR333 SODIMM SDRAM 1GB (SAMSUNG K4H510838D-ZCCC)
SATA HDD	N/A
Primary IDE Master	Fujitsu MHV2040AC 2.5" IDE HDD 40GB
Primary IDE Slave	N/A
CRT	ViewSonic E70
LCD	N/A
Compact Flash	N/A
Backplane	N/A
Riser Card	1907R15P00 Rev.0.1
Chipset Software	Intel® Chipset Software Installation Utility 6.0.1.1002
Graphics Media	Intel® 82852/82855 GM/GME Graphics Controller 6.14.0.3865 7/1/2004
LAN Driver	Intel® PRO/100 VE Network Connection 7.1.12.0 2/10/2004
Audio Driver	Realtek AC'97 Audio 5.10.0.5630 7/1/2004
Touchscreen Driver	N/A
Power Supply	FSP FSP120-AAB AC/DC Adapter (19V, 6.32A)

### Test Result:

Testing Software	Result	Unit
<b>ZD WinBench 99 V2.0</b>		
Business Disk WinMark99	4350 <sup>2,3</sup>	Thousand bytes/sec
High-End Disk WinMark99	15100 <sup>2,4</sup>	Thousand bytes/sec
Business Graphics WinMark99	225 <sup>2,5</sup>	
High-End Graphics WinMark99	2872 <sup>2,5</sup>	
<b>PCMark2002</b>		
CPU	3854	
Memory	3540	
HDD	606	
<b>Final Reality V1.01—BenchMark Test</b>		
2D image	18.36	
3D	6.21	
Bus transfer	24.22	
Overall	12.56	Reality marks
<b>ZD 3D Winbench 2000 V1.1</b>		
3D WinMark 2000	38 <sup>1,4,29</sup>	Frames / sec
<b>3Dmark2001SE Pro (Demo version)</b>		
3Dmark2001SE Build 330_Benchmark mode	1207	
<b>ZD Multimedia Content Creation Winstone 2004 V1.0.1 (Up Pentium III 800 MHZ CPU)</b>		
Multimedia Content Creation Winstone 2004	Score: 14 / Variance: 1.4%	
<b>Business Winstone 2004 v1.0.1 (Up Pentium III 800 MHZ CPU)</b>		
Business Winstone2004	Score: 10.4 / Variance: N/A	

Testing Software	Result	Unit
<b>PCMark05</b>		
PCMark	N/A	HW equipment is not enough to run this software
CPU	N/A	
Memory	N/A	
Graphics	N/A	
HDD	N/A	
<b>3Dmark2003 v360</b>		
3Dmark Score	N/A	HW equipment is not enough to run this software
CPU Score	N/A	