

Summary Table of contents :

Summary Table of contents	2
Platform Information	3
1. Power On and Reset Test	4
2. OSD Control Function Test	4
3. I/O Peripheral Function Test	4
4. Power Consumption Test	7
5. Timer Accuracy Test	8
6. Network HUB / LAN Connection Test	8
7. Hardware compatibility	9
8. O.S. Compatibility Test	14
9. BIOS Function Test	17
10. Performance Test	18

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
PCB Model / Version	APC-9172 A1.0 (MB COM-945 Rev. A1.0)	1,2,3,4,5,6,7,8,9,10
BIOS / Version	APC- 9172 BIOS Rev 1.0 (08/01/2007)	1,2,3,4,5,6,7,8,9,10
CPU Type	Intel Core 2 Duo T5500 / 1.66GHz	1,2,3,4,5,6,7,8,9,10
Memory Type	DSL DDRII 533 MHz 512MB (ELPIDA E5108AGBG-6E-E)	1,2,3,4,5,6,7,8,9,10
IDE Channel 0 Master	N/A	N/A
IDE Channel 0 Slave	TCAE DV-28SL-R 1.4A DVD-ROM	1,2,3,4,5,6,7,8,9,10
SATA Port 1 Device	Fujitsu 2.5" MHV2080BH 80GB	1,2,3,4,5,6,7,8,9,10
SATA Port 2 Device	N/A	N/A
CRT	ViewSonic E70 17"	1,2,3,4,5,6,7,8,9,10
LCD	CPT.CLAA170EA07 17"	1,2,3,4,5,6,7,8,9,10
Compact Flash	N/A	N/A
Backplane	N/A	N/A
Riser Card	PCB: 1907R12P00 , 1707R11P00	1,2,3,4,5,6,7,8,9,10
Touch Panel	AMT Touch Screen 17" 8 Wire.	1,2,3,4,5,6,7,8,9,10
Operating System	[] Linux-RedHat 9.0 or [] Fedora Core 4.0	N/A
	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	1,2,3,4,5,6,7,8,9,10
	Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	9
	Windows XP Professional Japanese Version V2002 Service Pack 2	9
	Windows XP Professional English Version /Standard x64 Edition	N/A
	Windows 2000 Professional English Version V5.00.2195 Service Pack4	9
	Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4	9
	Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4	9
	Windows Server 2000 English Version	N/A
	Windows 98SE English Version V4.10.2222A	N/A
	MS-DOS 6.22 English Version	N/A
Power Supply	ATX Power	N/A
	AT Power	N/A
	AC power adapter : FSP FSP250-50PLB AC Power Adapter ,input voltage range 100V~240V	1,2,3,4,5,6,7,8,9,10
	DC power adapter : FSP 200-62DL DC Power Adapter, 18V~36V	N/A

Test Result for Certification

1. Power On and Reset Test

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Power On/Off Test in DOS Mode-100V Power Function Test	10 times in Room Temperature	X		
Power On/Off Test in DOS Mode-210V Power Function Test	10 times in Room Temperature	X		
KB Reset in Dos Mode-110V Power Function Test	20 times in Room Temperature	X		
Hardware Reset in Dos Mode-110V Power Function Test	20 times in Room Temperature	X		

2. OSD Control Function Test

Test Method	Test Condition	Result		
		Pass	Fail	N/A
OSD Control Function	Power off			X
	Power on			X
	Stand by			X
	POWER	X		
	LAN			X
	HDD	X		
	LCD	X		

3. I/O Peripheral Function Test

I/O Peripheral Function Test –I/O Function	Result		
	Pass	Fail	N/A
Floppy Connector / Driver A:			X
Primary IDE Master			X
Primary IDE Slave	X		
Secondary IDE Master (Reserved for CF Card)			X
Secondary IDE Slave (Reserved for CF Card)			X
Third IDE Master			X
Third IDE Slave			X
RAID 0 Function Test			X
RAID 1 Function 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
Compact Flash – Type I	X		
Compact Flash – Type II			X
DOC (Disk On Chip)			X
DOM (Disk On Module) – 40 Pin			X

DOM (Disk On Module) – 44 Pin			X
COM 1	X		
COM 2-232	X		
COM 2-422	X		
COM 2-485 (ADAM-4011 module)	X		
COM 2-Ring /+5V /+12V			X
COM 3 (For TouchScreen)	X		
COM 4			X
COM 5	X		
COM 6	X		
PS/2 Mouse & Keyboard (Internal)			X
PS/2 Mouse & Keyboard (External)	X		
Audio Connector	X		
Audio 7.1 Channel / S/P DIF(5.1 Channel +2.0 Channel)			X
LPT 1	X		
LPT 2			X
SIR / 115.2 Kbps			X
FIR / 4M bps			X
USB 0/1 Ports	X		
USB 2/3 Ports	X		
Front USB Ports	X		
USB 7 Ports			X
USB 2.0 0/1 Ports	X		
USB 2.0 2/3 Ports	X		
Front USB 2.0 Ports	X		
USB 2.0 7 Ports			X
DVI Function			X
DIO Connector			X
Card Bus			X
PC/104			X
PC/104-Plus			X
PCI-104			X
TFT TTL LCD			X
TFT LVDS LCD			X
TV-out / S Terminal			X
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		
CPU FAN Connector	X		
System FAN Connector	X		
Onboard IDE LED			X
Onboard Power LED			X

Front Panel		Result		
		Pass	Fail	N/A
Power On Button		X		
IDE LED		X		
External Buzzer				X
On Board Buzzer		X		
Power LED		X		
Reset Switch		X		
Keyboard Lock				X
Jumpers Function		Result		
		Pass	Fail	N/A
ATX simulates AT				X
Audio Out Selection (W/O & W/ Amplifier)				X
LCD Power Select				X
COM1-Ring/5V/12V Selection (JP11)		X		
COM2-Ring/5V/12V Selection (No Jumper)				X
COM2 RS-232/422/485 Selection (Depends on BIOS)				X
COM5-Ring/5V/12V Selection (JP10)		X		
COM6-Ring/5V/12V Selection (JP9)		X		
Clear CMOS		X		
Touch Screen Operating Mode Selection (Default 8 wire touch screen)		X		
Clock Shift of TFT LCD				X
Power Connector & Function		Result		
		Pass	Fail	N/A
AC Power Connector		X		
5V only Power for Big 4P				X
ATX Power Connector				X
ATX Power_12V Connector				X
AT Power Connector				X
Big 4P Power Connector				X
Mini 4P Power Connector				X
External Power Connector(-12/-5V)				X
Option ATX Power Connector (PS-ON / +5VSB)				X
LAN Connector & Function		Result		
		Pass	Fail	N/A
LAN Speed LED	LAN1			X
	LAN2			X
LAN Active LED	LAN1	X		
	LAN2	X		
LAN Link LED	LAN1	X		
	LAN2	X		
LAN 10/100 Ethernet		X		
LAN 1G Ethernet		X		
PCI Connector & Function		Result		
		Pass	Fail	N/A
Mini PCI Slots		X		

PCI Slots	X		
PCI Express	X		

4. Power Consumption Test (Run Prime95 Program)

Platform Information

PCB Model / Version	APC-9172 A0.2 (MB COM-945 Rev. A1.0)
BIOS	APC- 9172 BIOS Rev 0.5 (05/03/2007)
Operating System	Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2
CPU	Intel Core 2 Duo T5500 / 1.66GHz
Memory	DSL DDRII 533 MHz 512MB (ELPIDA E5108AGBG-6E-E)
SATA HDD	Fujitsu 2.5" MHV2080BH 80GB
Primary IDE Master	N/A
Primary IDE Slave	TCAE DV-28SL-R 1.4A DVD-ROM
CRT	ViewSonic E70 17"
LCD	CPT.CLAA170EA07 17"
Compact Flash	N/A
Backplane	N/A
Riser Card	PCB: 1907R12P00 , 1707R11P00
Chipset Software	Intel(R) chipset software Installation Utility 8.1.1.1010
Graphics Media	Mobile Intel(R) 945GM Express Chipset Family Ver:6.14.10.4704(2006/10/6)
LAN Driver	Intel(R) PRO/1000PL Network Connection Ver:9.5.12.0(2006/7/26)
Audio Driver	Realtek AC97 Audio Ver:5.10.0.6190(2006/11/6)
Touchscreen Driver	Serial Touch screen Controller(Professional) Ver:4.3.3.2616(2006/2/16)
Power Supply	FSP FSP250-50PLB AC Power Adapter ,input voltage range 100V~240V

Model	AC Power: FSP250-50PLB		AT Power:				Note
	CPU: VIA C7/Eden serial processor 2.0G	CPU:	CPU:	CPU:	CPU:		
OS Environment	Win XP/SP2						
Normal Mode (+5V)	1.5	A	A		A		A
Suspend Mode (+5V)	0.94	A	A		A		A
5VSB in Power Off Mode (just for ATX)	0.15	A	A	-----	A	-----	A
5VSB in Power On Mode (just for ATX)	0	A	A	-----	A	-----	A
Normal Mode (+12V)	3.98	A	A		A		A
Suspend Mode (+12V)	1.03	A	A		A		A
Normal Mode (+3.3V) (just for ATX)	0.94	A	A	-----	A	-----	A
Suspend Mode (+3.3V) (just for ATX)	0.31	A	A	-----	A	-----	A
Normal Mode (-12V)	0	A	A		A		A
Suspend Mode (-12V)	0	A	A		A		A

Normal Mode (-5V)	0	A		A		A		A	
Suspend Mode (-5V)	0	A		A		A		A	

5. Timer Accuracy Test

System Clock & RTC Clock Test				
Test Method	Margin for error	Result		
		Pass	Fail	N/A
System Clock in Power On Mode	±1 second during 24 hours	X		
RTC Clock in Power On Mode	±1 second during 24 hours	X		
RTC Clock in Power Off Mode	±1 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		

6. Network HUB / LAN Connection Test

Location		LED Type				Result		
						Pass	Fail	N/A
LAN1 LED	Active LED				X			
	Link LED				X			
	Speed LED				X			
LAN2 LED	Active LED				X			
	Link LED				X			
	Speed 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	1000	X		
		Intel InBusiness 8 Ports	100M	100 Mbps	100	X		
		Accton Desktop-3005	100M	100 Mbps	100	X		
		D-Link DES-1316 PoE Switch	100M	100 Mbps	100	X		
		SVEC FD916H	100M	10 Mbps	10	X		
Onboard LAN2	10/100/1000 Mbps	HP J4095A 24 Ports	100M	100 Mbps	100	X		
		D-Link DGS-1008T	100M	1Gbps	1000	X		
		Intel InBusiness 8 Ports	100M	100 Mbps	100	X		
		Accton Desktop-3005	100M	100 Mbps	100	X		
		D-Link DES-1316 PoE Switch	100M	100 Mbps	100	X		
		SVEC FD916H	100M	10 Mbps	10	X		

7. Hardware Compatibility

CPU Compatible Test						
Type	Clock Speed	FSB	Prime95 Version	Result		
				Pass	Fail	N/A
Intel Core 2 Duo T5500 / 1.66GHz			V2414	X		
Memory Compatibility Test						
Brand / Memory Size	Chipset	Frequency	MemTest86 Version	Result		
				Pass	Fail	N/A
DSL 512MB DDR2 667MHz	ELPIDA E5108AGBG-E	DDR II 667	V1.65	X		
Kingston KVR533D2S4 / 1GB DDR2 533MHz	Hynix HY5PS12821BFP-C4	DDR II 533	V1.65	X		
Transcend 512MB DDR2 533MHz	Hynix HY5PS12821BFP-C4	DDR II 533	V1.65	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		Dynamic		X		
		Condenser		X		
MIC Sound Recorder		Dynamic		X		
		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
	AU B104SN02 / 10.4" / 800*600 / 18bit (4:3)	3.3V			X
	Hyundai HT12X11-200 / 12.1" / 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 M201UN02 V.5 / 20.1" / 1600x1200 / 48bit (4:3)	5V			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
Riser Card : 1907R12P00 , 1707R11P00

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		
CREATIVE Sound BLASTER Live5.1	Sound Card	X		
Takram DC-395U V1.02	SCSI Card	X		
Adaptec AHA-2940AU	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 10/100 Mbps	LAN Card	X		
D-Link DGE-530T 1000BASE-T Gigabit Ethernet Adapter	LAN Card	X		
D-Link DWL-520+ Wireless LAN	LAN Card	X		
ADAPTEC 1420SA RoHS 4-Port SATA II RAID	RAID 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

PCI-Express Function Test
Riser Card : 1907R12P00

Model	Result		
	Pass	Fail	N/A
PER-C101 PCI-E BROADCOM BCM5789KFBG Gigabit LAN x2 (Defined by Aaeon)			X
PER-C102 PCI-E Marvell 88E8036 10/100Mbps LAN x2 (Defined by Aaeon)			X
SksKonnnect SK-9E21D 10/100/1000Base-T Adapter PCI-Express X1 LAN Card	X		

WinFast PX6200 TC TDH PCI-Express X16 VGA Card			X
HDD Compatibility Test			
Model	Result		
	Pass	Fail	N/A
Seagate / ST340014A / 40GB / Barracuda 7200.7	X		
Quantum / Fireball Plug AS / 30GB / ATA-100	X		
Seagate / ST310210A / 10.2GB / ATA-66	X		
Western / WD400BB-75DEA0 / 40GB / ATA-100	X		
Seagate / ST3120026AS / 120GB / ATA-100 / S-ATA	X		
CD/DVD-ROM Compatibility Test			
Model	Result		
	Pass	Fail	N/A
TEAC CD-ROM CD-540E 40X			X
BenQ DW1655 OB2 16 x DVD ReWriter			X
Acer DVP1640A / 16X / DVD-ROM / ATA33			X
Pioneer / DVR-A11FXC1 / 8X DVD-RW / 6X DVD-RW / ATA66			X
Pioneer / DVD-126D / 16X / DVD-ROM / ATA66			X
Pioneer / DVD-121 / 16X / DVD-ROM / ATA66			X
SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X / ATA33			X
IBM HL-DT-ST / GCR 8480B-48X / CD-ROM ATA33			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
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

Use High Speed Device USB2.0 CD-R/W Ben-Q / 4824W1-ON2 to play Nero CD/DVD Speed	X				
USB Device Full Loading Test		Result			
Model	Pass	Fail	N/A		
IBM 2.5"HDD	X				
Kingston DTI/2GB FE USB2.0 Flash Drive	X				
BENQ 4824WI-ON2	X				
GoodVision Mouse	X				
ADATA PD4 USB2.0 Flash Drive	X				
Mitsumi FLL3.5 D353GUE/FUE	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	
IO-Mega zip 100 parallel port	Parallel			X	
IO-Mega zip 100MB Internal ATAPI Drive	IDE			X	
PQI FC512 512MB	Type-I CF Card	X			
HITACHI / HMS360402D5CF00	Type- II CF Card			X	
Digital I/O Connector Test (CN27)		Result			
		Pass	Fail	N/A	
Input Address: (Depends on BIOS)				X	
Output Address: (Depends on BIOS)				X	
BIOS Address Note: 800H,801H				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-5600	Modem Module			X
	AAEON PCM-3115B	PCMCIA Module			X
PC/104+	AAEON PCM-3430	SCSI Module			X
PCI-104	AAEON PCM-3430	SCSI Module			X
	AAEON PCM-3730	Intel 82559 LAN Module			X
On-Board SCSI Function Test					
Model	Interface	Result			
		Pass	Fail	N/A	

RICOH MP7060S	SCSI-CDROM 24X			X
Fujitsu MCB3064SS	SCSI-MO Device			X
Seagate 32155W	SCSI-HDD 2.15GB			X
IBM DNES-309170	SCSI-HDD 9GB			X
Seagate ST39205LW/P	9GB / Ultra160 / LVD			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 Port Send / Receive Test		Result		
		Pass	Fail	N/A
Use software program: COMTEST.exe		X		
Use software program: LL5.exe		X		
Disk On Module [DOM] Compatibility Test				
Model	Interface	Result		
		Pass	Fail	N/A
DOM-256-026P Rev: A1K20	IDE 40 Pin			X
DOM-064-426P Rev: A2A11	IDE 44 Pin			X
Mini PCI Card Compatibility Test				
Model	Interface	Result		
		Pass	Fail	N/A
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)	WLAN	X		
GM-100 WLAN 11g Mini PCI Card (Model: INPROCOMM IPN2220)	WLAN	X		
PER -C20S Mini PCI RAID Card	RAID	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 (For TouchScreen)		X		
COM4				X
COM5		X		
COM6		X		
LPT1		X		
LPT2				X

Card Bus(PCMCIA) Compatibility Function Test			
Model	Result		
	Pass	Fail	N/A
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
PQI 16MB Compact Flash Adapter (64MB PQI CF Card inserting)			X
PCi GW-NS54SG Cardbus Adapter Wireless LAN Type-II			X

8. O.S. Compatibility Test

Installation Operation System Compatibility Test		Result		
		Pass	Fail	N/A
[] Linux-RedHat 9.0 or [] Fedora Core 4.0 [] Fedora Core 6.0				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
Utility and Driver Test				
OS	Drivers Version	Result		
		Pass	Fail	N/A
Linux-Red-Hat 9.0 / Kernel 2.4.20-8	Chipset Software			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(R) chipset software Installation Utility 8.1.1.1010	X		
	Graphics Media	Mobile Intel(R) 945GM Express Chipset Family Ver:6.14.10.4704 (10/6/2006)	X		
	LAN Driver	Intel(R) PRO/1000PL Network Connection Ver:9.5.12.0 (7/26/2006)	X		
	Audio Driver	Realtek AC97 Audio Ver:5.10.0.6190 (11/6/2006)	X		
	Touchscreen Driver	Serial Touch screen Controller (Professional) Ver:4.3.3.2616 (2/16/2006)	X		
	Card Reader	Genesys USB Mass Storage Device Ver:1.3.0.0 (10/7/2005)	X		
Windows XP Professional Simplified-Chinese Version V2002 Service Pack 2	System	Intel(R) chipset software Installation Utility 8.1.1.1010	X		
	Graphics Media	Mobile Intel(R) 945GM Express Chipset Family Ver:6.14.10.4704 (2006/10/6)	X		
	LAN Driver	Intel(R) PRO/1000PL Network Connection Ver:9.5.12.0 (2006/7/26)	X		
	Audio Driver	Realtek AC97 Audio Ver:5.10.0.6190 (2006/11/6)	X		
	Touchscreen Driver	Serial Touch screen Controller (Professional) Ver:4.3.3.2616 (2006/2/16)	X		
	Card Reader	Genesys USB Mass Storage Device Ver:1.3.0.0 (2005/10/7)	X		
Windows XP Professional Japanese Version V2002 Service Pack 2	System				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				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	Intel(R) chipset software Installation Utility 8.1.1.1010	X		
	Graphics Media	Mobile Intel(R) 945GM Express Chipset Family Ver:6.14.10.4704(10/6/2006)	X		

	LAN Driver	Intel(R) PRO/1000PL Network Connection Ver:9.5.12.0 (7/26/2006)	X		
	Audio Driver	Realtek AC97 Audio Ver:5.10.0.6190	X		
	Touchscreen Driver	Serial Touch screen Controller(Professional) Ver:4.3.3.2616(2/16/2006)	X		
	Card Reader	Genesys USB Mass Storage Device Ver:1.3.0.0 (10/7/2005)	X		
Windows 2000 Professional Simplified-Chinese Version V5.00.2195 Service Pack4	Chipset Software	Intel(R) chipset software Installation Utility 8.1.1.1010	X		
	Graphics Media	Mobile Intel(R) 945GM Express Chipset Family Ver:6.14.10.4704(10/6/2006)	X		
	LAN Driver	Intel(R) PRO/1000PL Network Connection Ver:9.5.12.0 (7/26/2006)	X		
	Audio Driver	Realtek AC97 Audio Ver:5.10.0.6190	X		
	Touchscreen Driver	Serial Touch screen Controller(Professional) Ver:4.3.3.2616(2/16/2006)	X		
	Card Reader	Genesys USB Mass Storage Device Ver:1.3.0.0 (10/7/2005)	X		
Windows 2000 Professional Japanese Version V5.00.2195 Service Pack4	Chipset Software	Intel(R) chipset software Installation Utility 8.1.1.1010	X		
	Graphics Media	Mobile Intel(R) 945GM Express Chipset Family Ver:6.14.10.4704(10/6/2006)	X		
	LAN Driver	Intel(R) PRO/1000PL Network Connection Ver:9.5.12.0 (7/26/2006)	X		
	Audio Driver	Realtek AC97 Audio Ver:5.10.0.6190	X		

	Touchscreen Driver	Serial Touch screen Controller(Professional) Ver:4.3.3.2616(2/16/2006)	X		
	Card Reader	Genesys USB Mass Storage Device Ver:1.3.0.0 (10/7/2005)	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

9. BIOS Function Test

Test Item	Result		
	Pass	Fail	N/A
Memory Beep Test	X		
Standard CMOS Setup Test	X		
Boot Sequence Test	X		
Power Management Test			
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 (On / Off)	X		
CMOS Backup / Clear CMOS Test	X		
Boot ROM Test (PXE)	X		
Supervisor / User Password Test	X		
CRT / LCD / TV 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 Status			
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		

Remark: Standard CMOS Setup and POST detect with SATA HDD sequence are SATA Port2 Device and SATA Port1 Device.

10. Performance Test

Platform Information

PCB Model / Version	APC-9172 A0.2 (COM-945 A1.0)
BIOS	APC- 9172 BIOS Rev 0.5 (05/03/2007)
Operating System	Windows XP Professional English Version V2002 Service Pack 2
CPU	Intel Core 2 Duo T5500 / 1.66GHz
Memory	DSL DDRII 533 MHz 512MB (ELPIDA E5108AGBG-6E-E)
IDE Channel 0 Master	N/A
IDE Channel 0 Slave	TCAE DV-28SL-R 1.4A DVD-ROM
SATA Port 1 Device	Fujitsu 2.5" MHV2080BH 80GB
IDE Channel 0 Master	N/A
CRT	ViewSonic E70 17"
LCD	CPT.CLAA170EA07 17"
Compact Flash	N/A
Backplane	N/A
Riser Card	N/A
Touch Panel	AMT Touch Screen 17" 8 Wire.
Resolution / Depth	1024x768 32bit / 60Hz
DirectX	9.0
DC Power	N/A
AC Adapter	FSP FSP250-50PLB AC Power Adapter ,input voltage range 100V~240V

Test result:

Testing Software	Result	Unit
ZD WinBench 99 V2.0		
Business Disk WinMark99	6900	Thousand bytes/sec
High-End Disk WinMark99	21000	Thousand bytes/sec
Business Graphics WinMark99	325	
High-End Graphics WinMark99	1025	
Final Reality V1.01—BenchMark Test		
2D image	36.53	
3D	6.43	
Bus transfer	64.15	
Overall	24.16	Reality marks
ZD 3D Winbench 2000 V1.1		
3D WinMark 2000	121	Frames / sec
3Dmark2001SE Pro (Demo version)		

3DMark2001SE Build 330_Benchmark mode	4689	
ZD Multimedia Content Creation Winstone 2004 V1.0.1 (Up Pentium III 800 MHZ CPU)		
Multimedia Content Creation Winstone 2004	28.6	
Business Winstone 2004 v1.0.1 (Up Pentium III 800 MHZ CPU)		
Business Winstone2004	18	

It must be run "3D Quality" item before run 3D WinMark 2000 benchmark software.