

QE 【Mainboard】

P5 Verification Test Plan

Release No :07E010006

Product Model	PCM-8120
Description	VIA Eden / C7 Processor Compact Board
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : PCM-8120 A1.0 <input checked="" type="checkbox"/> BIOS : PCM-8120 BIOS Rev 1.0 for DVI,TTL,TV,CRT (02/01/2007) PCM-8120 BIOS Rev 1.0 for LVDS,TV,CRT (02/01/2007) <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> CPU Type : Onboard VIA C7 / Eden 1.0GHz / FSB:400MHz Onboard VIA C7 / Eden 2.0GHz / FSB:533MHz <input checked="" type="checkbox"/> North Bridge : CX 700M <input checked="" type="checkbox"/> South Bridge : CX 700M <input checked="" type="checkbox"/> VGA Chipset : VIA/S3G UniChrome Pro II IGP <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC880 <input checked="" type="checkbox"/> Ethernet Chipset : Realtek RTL8139DL <input checked="" type="checkbox"/> I/O Chipset : IT-8712IX+IT8888G <input checked="" type="checkbox"/> TV Chipset : CX 700M <input checked="" type="checkbox"/> Remark : QE P5 Report for PCM-8120 A1.0
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

2007/03/12

Issue date

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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 specification or no test equipment

Platform Information:

Item	Device Information	Test Item
PCB Model / Version	PCM-8120 A1.0	1,2,3,4,5,6,7,8,9,10,11
BIOS / Version	PCM-8120 BIOS Rev 1.0 for DVI,TTL,TV,CRT (02/01/2007)	1,2,3,4,5,6,7,8,9,10,11
	PCM-8120 BIOS Rev 1.0 for LVDS,TV,CRT (02/1/2007)	
CPU Type	Onboard VIA C7 / Eden 1.0GHz / FSB:400MHz	1,2,3,4,5,6,7,8,9,10,11
	Onboard VIA C7 / Eden 2.0GHz / FSB: 533MHz	
Memory Type	KINGMAX 512MB DDR2 533MHz	1,2,3,4,5,6,7,8,9,10,11
SATA HDD	N/A	N/A
Primary IDE Master	Maxtor VAM51JJ0 ATA133 40GB	1,2,3,4,5,6,7,8,9,10,11
Primary IDE Slave	TEAC / CD-540E / 40X	1,2,3,4,5,6,7,8,9,10,11
CRT	ViewSonic E70	1,2,3,4,5,6,7,8,9,10,11
LCD	N/A	N/A
Compact Flash	N/A	N/A
Riser Card	N/A	N/A
Backplane	N/A	N/A
Operating System	<input checked="" type="checkbox"/> Linux-RedHat 9.0 or <input type="checkbox"/> Fedora Core 4.0	9
	Windows Server 2003 Standard Edition 5.2.3790 Build 37900	N/A
	Windows Server 2003 Standard x64 Edition Service Pack 1	N/A
	Windows XP Professional V2002 Service Pack 2	1,3,4,6,7,8,9,10,11
	Windows XP Professional x64 Edition Version 2003 Service Pack 1	N/A
	Windows 2000 Professional 5.00.2195 Service Pack 4	9
	Windows 2000 Professional 5.00.2195 Service Pack 4 (Server)	N/A
	Windows 98SE English Version V4.10.2222A	N/A
Power Supply	DOS 6.22	N/A
	ATX Power : Seventeam / ST-300BLP /300W	1,2,3,4,5,6,7,8,9,10,11
	AT Power :	N/A

Test Result for Certification

1. Dynamic / Boot_UP Burn_In Test

PCB Model / Version	PCM-8120 A0.2
BIOS	PCM-8120 BIOS Rev 0.9 (12/12/2006)
Operating System	Windows XP Professional English Version V2002 Service Pack 2 / MS-DOS
CPU	VIA Eden C7 1.0GHz / FSB: 400MHz
Memory	Transcend DDRII 667 DIMM SDRAM 512MB (ELPIDA E5108AGBG-6E-E)
Primary IDE Master	Maxtor Fireball 3 ATX133 40GB
Primary IDE Slave	N/A
CRT	ViewSonic E70
LCD	N/A
Compact Flash	PQI Type-I CF 32MB Card
Backplane	N/A
Riser Card	N/A
Onboard Graphics Media	VIA/S3G UniChrome Pro II IGP Ver:6.14.10.327(8/4/2006)
Onboard LAN Driver	Realtek RTL8139/810x Family Fast Ethernet NIC Ver:5.621.304.2005(8/18/2005)
Onboard Audio Driver	Realtek High Definition Audio Ver:5.10.0.5296(9/12/2006)
Power Supply	FSP ATX-350PA

1.1. AT Power Supply

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Diagnostics Software Burn-In Test.	0°C ~60°C, 0%RH~90%RH, 48 hrs	X		
Power On/Off Test.	0°C ~60°C, 0%RH~90%RH, 24hrs	X		
High Temperature Storage Test (Just for PPC)	60 °C (48 Hours)			X
Low Temperature Storage Test (Just for PPC)	-20 °C (48 Hours)			X
Humidity Test (Just for PPC)	40 °C/95%RH (48 Hours)			X
Cold Start Test (Just for PPC)	-5 °C (Doing 50 times Power On/Off)			X

Dynamic / Boot_UP Burn_In Test

PCB Model / Version	PCM-8120 A0.2
BIOS	PCM-8120 BIOS Rev 0.9 (12/12/2006)
Operating System	Windows XP Professional English Version V2002 Service Pack 2 / MS-DOS
CPU	VIA Eden C7 2.0GHz / FSB: 533MHz
Memory	KINGMAX DDRII 533 DIMM SDRAM 512MB (hynix HY5PS12821 F-C4)
Primary IDE Master	Seagate ST320413A 20GB
Primary IDE Slave	N/A
CRT	ViewSonic E70
LCD	N/A
Compact Flash	PQI Type-I CF 32MB Card
Backplane	N/A
Riser Card	N/A
Onboard Graphics Media	VIA/S3G UniChrome Pro II IGP Ver:6.14.10.327(8/4/2006)
Onboard LAN Driver	Realtek RTL8139/810x Family Fast Ethernet NIC Ver:5.621.304.2005(8/18/2005)
Onboard Audio Driver	Realtek High Definition Audio Ver:5.10.0.5296(9/12/2006)
Power Supply	Enhance ENP-1815 ATX Power Supply

1.2. ATX Power Supply: LEMACS SP2-4300F AT Power

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Diagnostics Software Burn-In Test.	0°C ~60°C, 0%RH~90%RH, 48 hrs	X		
Power On/Off Test.	0°C ~60°C, 0%RH~90%RH, 24hrs	X		
High Temperature Storage Test (Just for PPC)	60 °C (48 Hours)			X
Low Temperature Storage Test (Just for PPC)	-20 °C (48 Hours)			X
Humidity Test (Just for PPC)	40 °C/95%RH (48 Hours)			X
Cold Start Test (Just for PPC)	-5 °C (Doing 50 times Power On/Off)			X

2. 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		

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	X		
COM 2-Ring /+5V /+12V	X		
COM 3	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 1/2 Ports	X		
USB 3/4 Ports	X		
USB 5/6 Ports	X		
USB 7 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 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	X		
COM2-Ring/5V/12V Selection	X		
COM2 RS-232/422/485 Selection (Depends on BIOS)			X
COM3-Ring/5V/12V Selection	X		
COM4-Ring/5V/12V Selection	X		
Clear CMOS	X		
Touch Screen Operating Mode Selection			X
Clock Shift of TFT LCD	X		
Power Connector & Function	Result		
	Pass	Fail	N/A
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)

Model	ATX Power: Seventeam ST-300BLP		AT Power:		Note
	CPU: VIA C7/Eden serial processor 2.0G	CPU: VIA C7/Eden serial processor 1.0G	CPU:	CPU:	
OS Environment	Win XP/SP2	Win XP/SP2			
Normal Mode (+5V)	5.63	2.69	A	A	A
Suspend Mode (+5V)	0.04	0.03	A	A	A
5VSB in Power Off Mode (just for ATX)	0.18	0.16	A	A	A
5VSB in Power On Mode (just for ATX)	0.03	0.02	A	A	A
Normal Mode (+12V)	0.04	0.03	A	A	A
Suspend Mode (+12V)	0.02	0.02	A	A	A
Normal Mode (+3.3V) (just for ATX)	0.03	0.02	A	A	A
Suspend Mode (+3.3V) (just for ATX)	0.02	0.02	A	A	A
Normal Mode (-12V)	0	0	A	A	A
Suspend Mode (-12V)	0	0	A	A	A
Normal Mode (-5V)	0	0	A	A	A
Suspend Mode (-5V)	0	0	A	A	A

5. Power Connector Test (110V / 220V)

Test Method	Result		
	Pass	Fail	N/A
ATX Connector - Power On/Off for 10 times in DOS	X		
AT Connector - Power On/Off for 10 times in DOS			X
5V Only - Power On/Off for 10 times in DOS			X

6. 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		

7. 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 Mbps	HP J4095A 24 Ports	100M	100 Mbps	100	X		
		D-Link DGS-1008T	100M	1Gbps	100	X		
		Intel InBusiness 8 Ports	100M	100 Mbps	100	X		
		LEMEL LM-S5 5 Ports	100M	100 Mbps	100	X		
		Accton Desktop-3005	100M	100 Mbps	100	X		
		SVEC FD916H	100M	10 Mbps	10	X		

8. Hardware Compatibility

CPU Compatible Test						
Type	Clock Speed	FSB	Prime95 Version	Result		
				Pass	Fail	N/A
VIA Eden C7 (Fan less)	1.0 GHz	400MHz	V2414	X		
VIA Eden C7 (with Fan)	2.0 GHz	533MHz	V2414	X		
Memory Compatibility Test						
Brand / Memory Size	Chipset	Frequency	MemTest86 Version	Result		
				Pass	Fail	N/A
DIMM SDRAM / 512MB	Kingston HYB18T512	DDR II 533	V1.65	X		
DIMM SDRAM / 1GB	Kingston V59C1512804QBF25	DDR II 533	V1.65	X		
DIMM SDRAM / 512MB	KINGMAX KKEA88I4ANU	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					
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			
ADMtek AN983B Ethernet Adapter	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			
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
Maxtor /Fireball 3 / 40GB / ATA-133	X		
Western / WD800JB / 40GB / ATA-100	X		
FUJITSU / MPE 3136AH / 13.6GB / ATA-66	X		
Seagate / ST340014A / 40GB / Barracuda 7200.7	X		
Seagate / ST3160812A / 160GB/ATA100	X		
Quantum / Fireball Plug AS / 30GB / ATA-100	X		
Seagate / ST380013A / 80GB / ATA-100	X		
Western Digital/WD400BB-75DEA0 / 40GB / ATA-100	X		
Western Digital/WD8800JD-00LSA0 / 80GB / ATA-100/SATA	X		
HDD 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			
		Pass	Fail	N/A	
Model					
BENQ 4824WI-ON2		X			
Mitsumi FLL3.5 D353GUE/FUE		X			
USB HDD 20GB		X			
USB Card Reader		X			
USB Mouse		X			
USB Thumb drive Transcend 256MB		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 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		
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
PER-C10L LAN Mini PCI Card (Chip:RTL8100C 51335Q1)	LAN	X		
PER-C20S 2 Port SATA Mini PCI Card (Chip: Silicon Image Sil3512ECTU128)	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		X		
COM1		X		
COM2		X		
COM3		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			

9. O.S. Compatibility Test

Installation Operation System Compatibility Test		Result			
		Pass	Fail	N/A	
Linux-Red-Hat 9.0 Kernel 2.4.20-8		X			
Fedora Core 4				X	
Windows Server 2003 English Version / Standard Edition 5.2.3790				X	
Windows XP Professional English Version V2002 Service Pack 2		X			
English Windows XP Professional x64 Edition with Service Pack 2 V2002 (Award says that 64bit OS does not support APM Mode)				X	
Windows 2000 Professional English Version V5.00.2195 Service Pack 4		X			
English Windows 2000 Professional Service Pack 4 / 5.00.2195 (Server)				X	
Windows 98SE English Version V4.10.2222A				X	
Windows NT Workstation 4.0 English Version Service Pack6				X	
MS-DOS 6.22				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	N/A	X		
	Graphics Media	VIA/S3G UniChrome Pro II IGP	X		
	LAN Driver	Realtek RTL8139/810x , 10/100 Mbps	X		
	Audio Driver	Realtek High Definition Audio	X		
Windows Server 2003 English Version / Standard Edition 5.2.3790	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows XP Professional English Version V2002 Service Pack 2	Chipset Software	VIA Machine INF 2.80A	X		
	Graphics Media	VIA/S3G UniChrome Pro II IGP Ver:6.14.10.327(8/4/2006)	X		
	LAN Driver	Realtek RTL8139/810x Family Fast Ethernet NIC Ver:5.621.304.2005(8/18/2005)	X		
	Audio Driver	Realtek High Definition Audio Ver:5.10.0.5296(9/12/2006)	X		
Windows XP Professional x64 Edition with Service Pack 2 V2002 English Version	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	System	VIA Machine INF 2.80A	X		
	Graphics Media	VIA/S3G UniChrome Pro II IGP Ver:6.14.10.327(8/4/2006)	X		

	LAN Driver	Realtek RTL8139/810x Family Fast Ethernet NIC Ver:5.621.304.2005(8/18/2005)	X		
	Audio Driver	Realtek High Definition Audio Ver:5.10.0.5296(9/12/2006)	X		
Windows 98SE English Version V4.10.2222A	System				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X
Windows NT Workstation 4.0 English Version 4.00.1381 Service Pack6	Chipset Software				X
	Graphics Media				X
	LAN Driver				X
	Audio Driver				X

10. 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+ 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 (RPL / 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 Monitor	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		

11. Performance Test

11-1. Environment

O.S.	English Windows XP Professional SP2 V2002
Memory	At least 256MB
Resolution / Depth	1024x768x32bit / 60Hz
DirectX	9.0

English Windows 2000 Professional with SP4 5.00.2195 + 1024x768x32bit / 60Hz + Direct 9.0		
ZD WinBench 99 V2.0	Result	Unit
Business Disk WinMark99	3740	Thousand bytes/sec
High-End Disk WinMark99	15300	Thousand bytes/sec
Business Graphics WinMark99	243	
High-End Graphics WinMark99	481	
Final Reality V1.01—BenchMark Test (Reality Marks)		
2D Image	354.50	
3D	3.59	
Bus transfer	12.04	
Overall	410.13	Reality marks
ZD 3D Winbench 2000 V1.1		
3D WinMark 2000	42.1	Frames / sec
3Dmark2001SE Pro (Demo version)		
3DMark2001SE Build 330_Benchmark mode	972	
Business Winstone 2004 v1.0.1		
Business Winstone2004	7	