

QE 【Mainboard】

P5 Verification Test Plan

Release No : 06E010029

Product Model	PCM-8152
Description	Intel Pentium-M / Celeron-M Compact Board
Test Configuration	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : PCM-8152 A0.2 <input checked="" type="checkbox"/> BIOS : PCM-8152 BIOS Rev.1.0 (10/11/2006) <input checked="" type="checkbox"/> Chipset : <input checked="" type="checkbox"/> CPU Type : Intel Socket 478 Pentium-M or Celeron-M CPU up to 1.8GHz <input checked="" type="checkbox"/> North Bridge : Intel 852GM <input checked="" type="checkbox"/> South Bridge : ICH4 <input checked="" type="checkbox"/> VGA Chipset : Intel 852GM Integrated VGA <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC655 6CH AC97 CODEC, Stereo Amplifier included <input checked="" type="checkbox"/> Ethernet Chipset : Intel 82551ER for 10/100Mbps Intel 82541 for Giga Ethernet (Optional) <input checked="" type="checkbox"/> I/O Chipset : ICH4+ITE8712IX x2 for 4 COM port support <input checked="" type="checkbox"/> TV Chipset : Chronel 7009B, support NTSC/PAL <input checked="" type="checkbox"/> Remark : PCM-8152 A0.2 QE NPDP P5 Test Report
Test Result Summary	
<input checked="" type="checkbox"/> Pass <input type="checkbox"/> Fail <input type="checkbox"/> Pass with Deviation Comment: _____ _____	

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Issue date

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Summary Table of contents :

Summary Table of contents	2
Platform Information	3
1. Dynamic / Boot_UP Burn_In Test	4
2. Power On and Reset Test	4
3. I/O Peripheral Function Test	4
4. Power Consumption Test	6
5. Power Connector Test	7
6. Timer Accuracy Test	7
7. Network HUB / LAN Connection Test	7
8. Hardware compatibility	8
9. O.S. Compatibility Test	13
10. BIOS Function Test	14
11. Performance Test	15

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-8152 A0.2	
BIOS / Version	PCM-8152 BIOS Rev.1.0 (10/11/2006)	
CPU Type	Intel Socket 478 Celeron-M 1.3GHz / FSB:400MHz Intel Socket 478 Pentium-M 1.6GHz / FSB:400MHz	
Memory Type	Transcend DDR400 SDRAM 1GB (hynix HY5DU12822CTP-043)	
Primary IDE Master	Western Digital WD800BB-00JHA0 80GB	
Primary IDE Slave	BenQ CD-ROM 652A-674	
CRT	ViewSonic E70	
LCD	AU M150XN07 V.2 / 15" / 1024x768 / 24bit (4:3) LVDS	
Compact Flash	Type-I SanDisk SD CFJ 64MB	
Riser Card	N/A	
Backplane	N/A	
Operating System	<input checked="" type="checkbox"/> Linux-RedHat 9.0 or <input type="checkbox"/> Fedora Core 4	9
	Windows XP Professional English Version V2002 Service Pack 2	5,8,9-3
	Windows 2000 Professional English Version V5.00.2195 Service Pack 4	1,2,3,4,5,6,7,,8,9
	MS-DOS 6.22	1,2,3,4,5,6,8,9
Power Supply	ATX Power : SHARK / SPC5110-250ATZ2 250W	1,2,3,4,5,6,7,8,9
	AT Power : LEMACS SP2-4300F	3,5,8,9

Test Result for Certification

1. Dynamic / Boot_UP Burn_In Test

Test Method	Test Condition	Result		
		Pass	Fail	N/A
Diagnostics Software Burn-In Test.	0 ~60 , 30%RH~80%RH, 48 hrs	X		
Power On/Off Test.	0 ~60 , 30%RH~80%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			X
Secondary IDE Slave			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 (CN10, Depends on BIOS Setting)	X		

COM 2-422 (CN10)	X		
COM 2-485 (CN10)	X		
COM 2-Ring /+5V /+12V (CN10)	X		
COM 3-Ring /+5V /+12V (CN10)	X		
COM 4-Ring /+5V /+12V (CN10)	X		
COM 5			X
COM 6			X
PS/2 Mouse & Keyboard (Internal) (CN18)	X		
PS/2 Mouse & Keyboard (External)			X
Audio Connector (CN8)	X		
Audio 5.1 Channel / S/P DIF (CN2)	X		
LPT 1	X		
LPT 2			X
SIR / 115.2 Kbps (CN17)	X		
FIR / 4M bps			X
USB 1/2 Ports	X		
USB 3/4 Ports	X		
USB 5/6 Ports			X
USB 7/8 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
DVI Function	X		
DIO Connector	X		
Card Bus			X
PC/104	X		
PC/104-Plus			X
PCI-104			X
CD-In Connector			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 (CN11)	X		
System FAN Connector (CN16)	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 (JP1)		X		
Audio Out Selection (W/O & W/ Amplifier) (JP2)		X		
LCD Voltage Selection (JP3)		X		
COM3-Ring/5V/12V Selection (JP5)		X		
COM4-Ring/5V/12V Selection (JP4)		X		
Clear CMOS (JP6)		X		
Power Connector & Function	Result			
		Pass	Fail	N/A
ATX Power Connector		X		
ATX Power_12V Connector				X
AT Power Connector (P8 & P9)				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
PCI Slots		X		
PCI Express				X

4. Power Consumption Test (Run Prime95 Program)

Test Environment Mode	ATX Power: AOpen AO350-12AHN			
	CPU: Intel Socket478 Celeron-M 1.3GHz		CPU: Intel Socket478 Pentium-M 1.6GHz	
OS Environment	Win2000 ACPI		Win2000 APM	
Normal Mode (+5V)	4.57	A	5.39	A
Suspend Mode (+5V)	1.76	A	2.34	A
5VSB in Power Off Mode (ATX Mode)	0.18	A	0.25	A
5VSB in Power On Mode (ATX Mode)	0	A	0	A
Normal Mode (+12V)	0.33	A	0.34	A
Suspend Mode (+12V)	0.11	A	0.3	A
Normal Mode (+3.3V) (ATX Mode)	0	A	0	A
Suspend Mode (+3.3V) (ATX Mode)	0	A	0	A
Normal Mode (-12V)	0	A	0	A
Suspend Mode (-12V)	0	A	0	A
Normal Mode (-5V)	N/A	A	0	A
Suspend Mode (-5V)	N/A	A	0	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
LAN1	10/100/1000 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		
Location	Speed	Type	Cable Length	HUB Speed	Onboard LAN Speed	Result		
						Pass	Fail	N/A
LAN2	10/100/1000 Mbps	HP J4095A 24 Ports	100M	100 Mbps				X
		D-Link DGS-1008T	100M	1Gbps				X
		Intel InBusiness 8 Ports	100M	100 Mbps				X
		LEMEL LM-S5 5 Ports	100M	100 Mbps				X
		Accton Desktop-3005	100M	100 Mbps				X
		SVEC FD916H	100M	10 Mbps				X

8. Hardware Compatibility

CPU Compatible Test							
Type		Clock Speed	FSB	Prime95 Version	Result		
					Pass	Fail	N/A
Intel Socket 478 Celeron-M		1.3GHz	400MHz	V2414	X		
Intel Socket 478 Pentium-M		1.6GHz	400MHz	V2414	X		
Memory Compatibility Test							
Brand / Memory Size		Chipset	Frequency	MemTest86 Version	Result		
					Pass	Fail	N/A
Kingston / 512MB		DDR SDRAM Kingston D3208DLECTG5AU	DDR400	V1.65	X		
Kingston / 256MB		DDR SDRAM Kingston D328DL-60	DDR333	V1.65	X		
SAMSUNG / 256MB		DDR SDRAM K4H2808388-TCB0	DDR266	V1.65	X		

Transcend / 1GB	DDR SDRAM hynix HY5DU12822CTP-043	DDR400	V1.65	X		
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On Board Audio Function Test

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		
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 M170XW01 V.1 / 17" / 1280x768 / 24bit (16:9)	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		
Realtek RTL8139B Ethernet	LAN Card	X		
D-Link DGE-530T 1000BASE-T Gigabit Ethernet Adapter	LAN Card	X		
D-Link DWL-520+ Wireless LAN	LAN Card	X		
Genuine GM56-AMI2019	MODEM 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		

PCI-Express Function Test

Model	Result		
	Pass	Fail	N/A
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
Western Digital WD800BB-00JHA0 80GB	X		
Western Digital WD1200JB-00GVA0 120GB	X		
Hitachi HDS722580VLAT20C 82.3GB	X		
FUJITSU / MPE 3136AH / 13.6GB / ATA-66	X		
Seagate / ST340014A / 40GB / Barracuda 7200.7	X		
Quantum / Fireball Plug AS / 30GB / ATA-100	X		
Western / WD400BB-75DEA0 / 40GB / ATA-100	X		

CD/DVD-ROM Compatibility Test

Model	Result		
	Pass	Fail	N/A
BenQ CD-ROM 652A-674	X		
ASUS CD-ROM S/520A	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		
IBM HL-DT-ST / GCR-8480B / 48X / CD-ROM/ ATA33	X		
Pioneer / DVD-121 / 16X / DVD-ROM / ATA66	X		

SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X / ATA33		X		
NEC / ND-2500A / DVD R/RW / +R8X-R8X / ATA33		X		
IDE Cable Function test				
IDE Model		Result		
		Pass	Fail	N/A
40 Pin Cable ATA33		X		
44 Pin Cable ATA33				X
80 Pin Cable ATA100		X		
USB Function Test				
USB Basic Function Test (USB1/2 on USBRJ1 connector)		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	Type	Pass	Fail	N/A
CyberLink Power DVD XP4.0	Remote Control			X
BENQ 4824WI-ON2 (USB1)	CD-RW	X		
Thumb Device (USB2)	Storage	X		
USB HDD IBM IC25N020ATCS04-0 / 20GB / 4200RPM (1394b + USB2.0 External Box (MP-FBHUB20P-V2.0 E10-7073161D60)) (USB3)	HDD	X		
Mitsumi FL3.5D353GUE/FUE (USB4)	Floppy	X		
ASUS DRW-1604P	DVD-RW			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			
DOC2000 M-System / MD2200-D16				X	
PQI FC512 512MB	Type-I CF Card	X			
HITACHI / HMS360402D5CF00	Type- CF Card	X			
Digital I/O Connector Test			Result		
			Pass	Fail	N/A
Position: CN12, VCC: 5 V, Input Address: 801H, Output Address: 801H / DIO-1 Function Test			X		
Position: CN13, VCC: 5 V, Input Address: 800H, Output Address: 800H / 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-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	
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-100 WLAN 11g Mini PCI Card (Model: Sky Thru GC-100)		Wireless LAN	X		
GM-101 WLAN 11b/g 54Mbps Mini PCI Card (Model: VNT6655AM)		Wireless LAN	X		
AAEON PER-C100 Mini PCI Card	RTL-8100C 10/100M	LAN Module	X		
	RTL-8110S 10/100/1000M	LAN Module			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		
Windows 2000 Professional English Version V5.00.2195 Service Pack 4			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				X
	Graphics Media	Intel 852GM Integrated VGA	X		
	LAN Driver	Intel 82551ER for 10/100MBps	X		
	Audio Driver	Realtek ALC655 6CH AC97	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	Intel® Chipset Software Installation Utility 8.1.1.1001	X		
	Graphics Media	Intel® 82852/82855 GM/GME Graphics Controller 6.14.10.4497 2/7/2006	X		
	LAN Driver	Intel® 8255xER PCI Adapter 1.0.0.1 5/27/1999	X		
	Audio Driver	Realtek AC'97 Audio 5.10.0.6160 8/18/2006	X		
Windows 2000 Professional English Version V5.00.2195 Service Pack 4	Chipset Software	Intel® Chipset Software Installation Utility 8.1.1.1001	X		
	Graphics Media	Intel® 82852/82855 GM/GME Graphics Controller 6.14.10.4497 2/7/2006	X		
	LAN Driver	Intel® 8255xER PCI Adapter 1.0.0.1 N/A	X		
	Audio Driver	Realtek AC'97 Audio 5.10.0.6160 N/A	X		
Windows 98SE English Version V4.10.2222A	Chipset Software				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	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 (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			
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		

11. Performance Test

English Windows 2000 Professional with SP4 5.00.2195 + 1024x768x32bit / 60Hz + Direct 9.0		
ZD WinBench 99 V2.0		Unit
Business Disk WinMark99	9350 ^{2,4}	Thousand bytes/sec
High-End Disk WinMark99	35700 ^{2,4}	Thousand bytes/sec
Business Graphics WinMark99	272 ^{2,4}	
High-End Graphics WinMark99	739 ^{2,4}	
Final Reality V1.01—BenchMark Test (Reality Marks)		
2D Image	24.61	
3D	6.88	
Bus transfer	30.41	
Overall	15.72	Reality marks
ZD 3D Winbench 2000 V1.1		
3D Winbench 2000 Processor Test	5.03 ^{5,44,45}	
3D WinMark 2000	41.8 ^{1,5,24,28}	Frames / sec
ZD Multimedia Content Creation Winstone 2004 V1.0.1		
Multimedia Content Creation Winstone 2004	Score: 23.1 / Variance: 0.43%	
3Dmark2001SE Pro (Demo version)		
3DMark2001SE Build 330_Benchmark mode	1546	
English Windows XP Professional with SP2 V2002 + 1024x768x32bit / 60Hz + Direct 9.0		
Business Winstone 2004 v1.0.1		
Business Winstone2004	Score: 17.8 / Variance: 17%	