

Product Certification Report

Release No : 04E010021

Product Model	PCM-8200
Product Description	AIO Compact Board.Socket479. Pentium-M. LCD / LAN / 5.1Audio / SATA / USB 2.0 / Mini PCI / CFD.
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : PCM-8200 Rev:A0.2 <input checked="" type="checkbox"/> BIOS : PCM-8200 BIOS Rev:1.0 (03/25/2004) <input type="checkbox"/> Renew product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS : <input type="checkbox"/> Revision change <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS : <input type="checkbox"/> Component : <input checked="" type="checkbox"/> Chipset : OnBoard CPU : Intel(R) Mobile CPU 1.1GHz North Bridge : Intel RG82855GME South Bridge : FW80001ESB <input checked="" type="checkbox"/> Audio Chipset :Realtek ALC655 <input checked="" type="checkbox"/> Ethernet Chipset : Intel 82551ER <input checked="" type="checkbox"/> I/O Chipset : HR + ITE IT-8712F-A

2004-05-11
Issue date

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Manager

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Test Engineer

Test result for certification

Operation System Compatible Test	Result
Windows XP Professional English Version / 2002	Pass
Windows 2000 Professional English Version / 5.00.2195 + SP4	Pass
DOS 6.22 and DOS Utility Compatibility Test	Pass
Utility and Driver Test	Result
VGA for Windows 2000P (Onboard Intel 82855GME / 6.14.10.3762)	Pass
VGA for Windows XP (Onboard Intel 82855GME / 6.14.10.3762)	Pass
10/100 LAN for Windows 2000P (Onboard Intel 82551ER / 1.0.0.1)	Pass
10/100 LAN for Windows XP (Onboard Intel 82551ER / 1.0.0.1)	Pass
Audio for Windows 2000P (Onboard Realtek AC'97 Audio / 5.10.0.5490)	Pass
Audio for Windows XP (Onboard Realtek AC'97 Audio / 5.10.0.5490)	Pass
BIOS Function Test	Result
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM Power Manager Test	Pass
ACPI Power Manager Test	Pass
Power On Function Test	Pass
Wake Up Event Test	Pass
CMOS Backup / Clear CMOS Test	Pass
Supervisor / User Password Test	Pass
Boot Display - CRT / LCD Function Test	Pass
Boot Display - TV Function Test	Pass
TV S Port Standard Function Test – NTSC	Pass
TV AV Port Standard Function Test ---NTSC & PAL	Pass
Init Display First Function Test	Pass
On-Chip Serial ATA Function Test	Pass
SATA Mode-IDE Function Test	Pass
Voltage Monitor Test	Pass
FAN Speed Monitor Test	Pass
Temperature Monitor Test	Pass
Swap Floppy Drive & Boot up Floppy Seek Function Test	Pass
USB Onboard Device Function Test	Pass
COM Address / IRQ Test	Pass
LPT Address / IRQ Test	Pass
BIOS Awdflash Program Test	Pass

Dynamic / Boot_UP Burn_In Test	Test Condition	Result
Diagnostics Software Burn-In Test	0°C~60°C, 48 hrs	Pass
Audio Play For Sound Codec Chipset Burn-In Test	0°C & 60°C, 2 hrs	Pass
LAN Chipset Burn-In Test	0°C & 60°C, 2 hrs	Pass
Power On/Off Test	0°C~60°C, 24hrs	Pass
220V Power On/Off Test	Room Temperature, 12hrs	Pass
Keyboard Reset Test	20 Times, DOS Mode	Pass
Windows 2000P HCT 9.5 System Stress Test		Pass
I/O Peripheral Function Test – I/O Function		Result
Floppy Connector / Driver A: & B:		Pass
Primary IDE Master		Pass
Primary IDE Slave		Pass
Serial ATA1		Pass
Serial ATA2		Pass
Compact Flash-Type I		Pass
Compact Flash-Type II		Pass
DOM-40Pin		Pass
COM1		Pass
COM2-232		Pass
COM2-422		Pass
COM2-485		Pass
COM2-Ring / +5V / +12V		Pass
COM3		Pass
COM4		Pass
Clear CMOS		Pass
PS/2 Mouse & Keyboard		Pass
Audio Out Selection (W/Amplifier · W/O Amplifier)		Pass
Audio Connector		Pass
Audio 5.1 Channel S/P DIF		Pass
LCD Voltage 5V/3.3V Selection		Pass
LPT1		Pass
SIR / 115.2 Kbps		Pass
USB 1 & 2 & 3 & 4 Ports		Pass
VGA Display		Pass
DVI Function		Pass
DIO Function		Pass
LCD / LVDS		Pass
TV-OUT / AV Output – NTSC		Pass
TV-OUT / S Output – NTSC		Pass
TV-OUT / AV Output – PAL		Pass
DIMM Slots		Pass
Watchdog Software Control		Pass

I/O Peripheral Function Test – Front Panel & Function		Result	
Power On Button		Pass	
IDE LED		Pass	
External Buzzer		Pass	
On Board Buzzer		Pass	
Power LED		Pass	
Reset Switch		Pass	
Ext. K/B Connector		Pass	
CPU FAN Connector		Pass	
System FAN Connector		Pass	
I/O Peripheral Function Test – Power Connector & Function		Result	
ATX Power Connector		Pass	
I/O Peripheral Function Test – LAN Connector & Function		Result	
LAN Active LED		Pass	
LAN Speed 100 LED		Pass	
LAN Speed 1000 LED		Pass	
LAN 10/100 Ethernet		Pass	
LAN 1G Ethernet		Pass	
I/O Peripheral Function Test – PCI Connector & Function		Result	
PCI Slot		Pass	
I/O Peripheral Function Test – PME Connector & Function		Result	
Option PME Connector		Pass	
Power Consumption Test Genuine Intel(R) Mobile CPU 1.10GHz(100*11.0)		Result	
Normal Mode (+5V)		4.04 A	
Suspend mode (+5V)		1.85 A	
5VSB mode – ATX Power Supply		0.18 A	
Power Connector Test (110V/220V)		Voltage Range	Result
ATX Power (+5V)		4.75V~5.25V	Pass
ATX Power (+12V)		11.4V~12.6V	Pass
AT Power to ATX Connector (Play VCD)			Pass
Power 5V only Operation Function Test			Pass
Timer Accuracy Test		Result	
RTC Timer Accuracy of +/-1 sec per day.		Pass	
System Clock Accuracy of +/-1 sec per day.		Pass	
Watchdog Timer Accuracy of +/-20% sec per minute.		Pass	
Network HUB/LAN Connects Test (LAN1)			Result
HUB	Type	Speed	
	HP J4095A 24 Ports	10/100 Mbps	Pass
	D-Link DGS-1008T	10/100 Mbps	Pass
	Intel Inbusiness 8 Ports	10/100 Mbps	Pass
	LEMEL LM-S5 5 Ports	10/100 Mbps	Pass
	Accton Desktop-3005	10/100 Mbps	Pass
	SVEC FD916H	10 Mbps	Pass
LED Indicator Lights Function		LAN LED	Pass

Touch Screen LCD for Serial Ports Test		Address	IRQ	Result	
COM1		3F8	IRQ4	Pass	
COM2		2F8	IRQ3	Pass	
COM3		3E8	IRQ10	Pass	
COM4		2E8	IRQ11	Pass	
CPU Compatible Test (Windows 2000P)					
On Board Genuine Intel(R) Mobile CPU 1.10GHz (100*11.0)					
Genuine Intel(R) Mobile CPU 1.40GHz (100*14.0)					
Genuine Intel(R) Mobile CPU 1.60GHz (100*16.0)					
Memory Test – DDR 266/333/400		Speed	Size	Result	
SAMSUNG / K4H560838C-TCB0		DDR266	256MB	Pass	
KINGMAX / KDL684T4AA-60		DDR333	256MB	Pass	
SAMSUNG / K4H560838C-TCB3		DDR333	512MB	Pass	
EUDAR / DM32M8AT-333A		DDR333	512MB	Pass	
SAMSUNG / K4H280838B-TCB0		DDR266	256MB	Pass	
Transcend / V58C2256804SAT5		DDR400	256MB	Pass	
PQI / PQ3D328D60335CU		DDR333	256MB	Pass	
KINGSTON / D3208DL1T-6		DDR333	256MB	Pass	
KINGSTON / D328DL-60		DDR266	256MB	Pass	
Transcend / V58C2256804SAT5B		DDR400	512MB	Pass	
Transcend / V58C2256804SAT5B		DDR400	256MB	Pass	
SAMSUNG / K4H560438E-GCCC		DDR400	1GB	Pass	
On Board Audio Function Test				Result	
System Sound				Pass	
Play CD_IN				Pass	
Play Sound Recorder				Pass	
Speaker Out				Pass	
Line Out				Pass	
Line In				Pass	
Line In Sound Recorder				Pass	
MIC Speaker – Dynamic / Condenser				Pass	
MIC Sound Recorder – Dynamic / Condenser				Pass	
Play VCD 10mins				Pass	
Audio 5.1 Channel Function Test				Result	
2-channel mode for stereo speaker output				Pass	
4-channel mode for 4 speaker output				Pass	
6-channel mode for 5.1 speaker output				Pass	
S/P DIF Function Test (Input / Output)				Pass	
On Board TV Function Test				Result	
NTSC	AV Port Output			Pass	
	S Port Output			Pass	
PAL	AV Port Output			Pass	
On Board LCD Function Test		Size	Resolution	Mode	Result
HYUNDAI HT17E11-300		17"	1280*1024	48 bit LVDS	Pass
SAMSUNG LTM150XH-L04		15"	1024*768	24 bit LVDS	Pass
HYUNDAI HT12X11-200		12.1"	1024*768	18 bit LVDS	Pass

PCI Slot Function (PCI Adapter Card) Test	Type	Interface	Result
AAEON MBC-V100	VGA Card	PCI	Pass
Maxtor G450	VGA Card	PCI	Pass
Takram DC-395U V1.02	SCSI Card	PCI	Pass
D-Link FE-530TXFast Ethernet	LAN Card	PCI	Pass
Intel SB82559 10/100 Mbps	LAN Card	PCI	Pass
ABIT HotRod 100 Pro	RAID Card	PCI	Pass
HDD Compatible Test	Size	Speed	Result
IBM / IC35L180AVV207-1	185.2 GB	ATA-133	Pass
IBM / DTLA-307075	76.8 GB	ATA-100	Pass
IBM / DTLA-307045	46.1 GB	ATA-100	Pass
Fujitsu / MPE3136AH	13.6 GB	ATA-66	Pass
Maxtor / 94098U8	40 GB	ATA-66	Pass
Maxtor / D740X-6L	40 GB	ATA-100	Pass
Maxtor / 4G160J8	160 GB	ATA-133	Pass
Quantum / Fireball Plug AS	30 GB	ATA-100	Pass
Seagate / ST320410A	20 GB	ATA-100	Pass
Seagate / ST301021A	10.2 GB	ATA-66	Pass
Western / WD200EB-OOCPFO	20 GB	ATA-100	Pass
Seagate / ST3120026A	120 GB	ATA-100	Pass
Seagate / ST3120026AS	120 GB	SATA	Pass
CD-ROM / DVD-ROM Test	Type	Speed	Result
ACER DVP1640A	DVD-ROM	16X	Pass
AFREY CD-2052E	CD-ROM	52X	Pass
ASUS CD-S520/A	CD-ROM	52X	Pass
BENQ 652A-674	CD-ROM	52X	Pass
CREATIVE PC-DVD	DVD-ROM	12X	Pass
IBM GCR-8480B	CD-ROM	48X	Pass
KODAK 4802	CD-RW	6X	Pass
PHILIPS PBC03210G	DVD/CD-RW / DVD-ROM	32X10X40 / 12X	Pass
NEC C&C-BCD F561B	CD-ROM	52X	Pass
PIONEER ATAPI DVD-A03S	DVD-ROM	6X	Pass
SONY CDU4811-81	CD-ROM	48X	Pass
TEAC CD-540E	CD-ROM	40X	Pass
USB Basic Function Test			Result
CMOS USB Function			Pass
CMOS USB Keyboard			Pass
CMOS USB Mouse			Pass
System Booting Test			Pass
USB 2.0 Function Test			Pass

USB Extention Device Function Test		Type	Result
CyberLink Power DVD XP4.0		Remote Control	Pass
BENQ 4824WI-ON2		CD-RW	Pass
Apacer USB 2.0 256MB		Handy Steno	Pass
Fujitsu USB 2.0 High Speed Device (2.5" MHN2100AT)		HDD	Pass
IOMEGA ZIP 100MB		ZIP	Pass
D-Link DSB-H4/DU-H4		HUB	Pass
MITSUMI FLL3.5 D353GUE/FUE		Floppy	Pass
Floppy Disk Controller Function Test			Result
Format A/B and Copy and Compare File Between C: and A/B			Pass
Chang BIOS Floppy is NONE value			Pass
SWAP FDD			Pass
Check BIOS "Report NO FDD for Win95"			Pass
Peripheral Compatibility-Storage Device		Interface	Result
Iomega zip 100 parallel port		Parallel	Pass
Iomega zip 100MB Internal ATAPI Drive		IDE	Pass
PQI FC512 512 MB Compact Flash Card		Type I	Pass
HITACHI MicroDrive 1GB		Type II	Pass
Digital I/O Connector Function Test			Result
Input / Output Address			Pass
Vcc / GND Function			Pass
COM Port Send & Receive Test			Result
COM1			Pass
COM2			Pass
COM3			Pass
COM4			Pass
Disk On Module [DOM] Compatibility Test		Interface	Result
DOM-256-026P Rev.A1k20		IDE 40 Pin	Pass
Mini PCI Slot Compatibility			Result
RTL8180L Mini PCI Card			Pass
Wireless LAN Compatibility Test		Interface	Result
ANATEL 2001AJ0673 Mini PCI 802.11b		Mini PCI	Pass
RTL8180L Mini PCI Card		Mini PCI	Pass
D-Link DWL-520+ Wireless LAN		PCI	Pass
System Integer Application Test			Result
System Integer Application Test (Burn-in 8 Hrs.)			Pass
System Integer Power Consumption Test			Result
Normal Mode (+5V)			5.25 A

Windows 2000P + SP4 Performance Test	Result
Genuine Intel(R) Mobile CPU 1.60GHz(100*16.0) + 1GB DDR400 Memory	
WinBench 99 V1.1-- CPUmark 99	127
WinBench 99 V1.1-- FPU WinMark	6110
WinBench 99 V1.1-- Business Graphics WinMark 99	314
WinBench 99 V1.1 -- High-End Graphics WinMark 99	691
WinBench 99 V1.1 – Business Disk WinMark99	7380
WinBench 99 V1.1 – High End Disk WinMark99	21600
3D WinBench 2000 V1.0 Processor Test -- DirectX 7.0 / 1024x768x16Bits	3.57
Content Creation Winstone 2001 -- DirectX 7.0 / 1024x768x16Bits	75.9