

Mainboard Product Certification Report

Release No : 03E010220

Product Model	PCM-8500
Product Description	AIO Compact Board. Socket478. LCD/Ethernet/Audio/CFD/4COMs.6USBs/PCMCIA/Mini PCI
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : PCM-8500 Rev:A0.2 <input checked="" type="checkbox"/> BIOS: PCM-8500 BIOS Rev:1.0(08/28/2003) <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:

2003-9-10

Wayne Chen

Andrew ku

Issue date

A.V.P

Test Engineer

Test result for certification

Timer Accuracy Test	Result
System clock accuracy of +/-5 sec per day.	Pass
Watchdog timer accuracy of +/-20 % per sec/ min.	Pass
Margin Test – Power Consumption - PIV 2.0G , DDRAM 256MB	Result
Electrical characteristics – Normal Mode(+3.3V)	2.3 A
Electrical characteristics – Standby Mode(+3.3V)	2.3 A
Electrical characteristics – Normal Mode(+5V)	0.4 A
Electrical characteristics – Standby Mode(+5V)	0.4 A
Electrical characteristics – Normal Mode(+12V)	3.6 A
Electrical characteristics – Standby Mode(+12V)	0.6 A
Power VCC 4.75V to 5.25V Margin test .	Pass
Network HUB / LAN Connects Test	Result
LAN1 HP J4095A 24Ports [100 /10 Mbps]	Pass
LAN1 D-Link DES-1008 [100 / 10 Mbps]	Pass
LAN1 Intel InBusiness 8 Ports [100 / 10 Mbps]	Pass
LAN1 LEMEL LM-S5 5 Ports [100 / 10 Mbps]	Pass
LAN1 Accton DeskTop-3005 [100 / 10 Mbps]	Pass
LAN1 SVEC FD916H [10 Mbps]	Pass
Touch Screen for serial Ports Test	Result
COM 1 Serial Port	Pass
COM 2 Serial Port	Pass
COM 3 Serial Port	Pass
COM 4 Serial Port	Pass
CPU Compatible Test	Result
Intel Pentium 4 / 2A GHz/ 512/ 400/ 1.5V	Pass
Intel Pentium 4 / 2.53GHz/ 512/ 533/1.5V	Pass
Intel Pentium 4 / 2.4GHz/ 512/ 533/ 1.5V	Pass
Intel Pentium 4-M L303A927 SL6K5 RH80532 2.4G / 512	Pass
Memory Test – DDRAM PC-133/100	Result
Kingston / SAMSUNG K4H560838C-TCB0 / DDR266 / 256MB	Pass
Transcend / SAMSUNG K4H560838C-TCB3 / DDR333 / 512MB	Pass
Transcend / SAMSUNG K4H560838C-TCB3 / DDR333 / 512MB	Pass
Kingmax / KDL684T4AA-60 / DDR 333 / 256MB	Pass
On Board Audio Function Test	Result
System Sound	Pass
Play CD_IN	Pass
Play Sound Recorder	Pass
Line Out	Pass
Line In	Pass

Line In Sound Recorder	Pass
MIC Speaker – Dynamic / Condenser	Pass
MIC Speaker Recorder – Dynamic / Condenser	Pass
Game port	Pass
VGA Card Compatible Test	Result
3D Blaster Savage 4 / PCI Card	Pass
LEMEL S3 TRIO64V2-DX/GX / ISA Card	Pass
CIRRUS LOGIC 5429 / ISA Card	Pass
Multi Media Card Compatible Test	Result
Creative AUDIO (PCI bus)	Pass
Creative Sound BLASTER Live5.1 (PCI bus)	Pass
Lemel ESS ES1868F 3D/16 PnP (ISA bus)	Pass
SCSI Card Compatible Test	Result
APTEC / ASC-29160 (PCI bus)	Pass
Takram DC-395U / V1.02 (PCI bus)	Pass
AHA-1520B (ISA bus)	Pass
Modem Card Compatible Test	Result
Genuine GM56-AMI2019 (PCI bus)	Pass
LAN Card Compatible Test	Result
3 COM 3C905-TX (PCI bus)	Pass
D-Link FE-530TX Fast Adapter (PCI bus)	Pass
D-Link DWL-500+DWL-1000AP Wireless Adapter (PCI bus)	Pass
Intel SB82559 (20/100Mbps) (PCI bus)	Pass
Intel PILA8560 (10/100MB) (ISA bus)	Pass
Other Card Test	Result
YUAN DVD MPEG-2 MPEG CARD (PCI)	Pass
UPMOST 1394 CardBus + FireWire 3.5" HardDisk Enclosure	Pass
PixelView Play Tvpro	Pass
RAID Adapter Card Test	Result
ABIT HotRod 100 Pro (PCI bus)	Pass
HDD Compatible Test	Result
IBM DTLA-307075 / ATA-100 / 76.8GB	Pass
IBM IC35L180AVV207-1 / ATA-133 / 185.2GB	Pass
Maxtor 4G160J8 / ATA-100 / 46.1GB	Pass
Maxtor 54610H6 / ATA-133 / 160GB	Pass
Maxtor 54098U8 / ATA-66 / 40.9GB	Pass
Seagate ST340016A / ATA-100 / 40GB	Pass
Seagate ST380021A / ATA-100 / 80GB	Pass
W/D WD200EB-OOCPFO / ATA- / 20GB	Pass
W/D WD400EB / ATA- / 40GB	Pass
CDROM / DVDROM Test	Result
NEC C&C-BCD F561B / 52X	Pass
TEAC CD-540E-082-U / 40X	Pass
SONY CDU5231 / 52X	Pass

IBM GCR-8480B / 48X	Pass
MITSUMI FX5400W /54X	Pass
Kodak 4802 / 6X /CDR/RW	Pass
PIONEER ATAPI DVD-A03S / 6X / DVD-ROM	Pass
Acer DVP1640A / 16X / DVD-ROM	Pass
USB Compatible Test	Result
CMOS Setting Test	Pass
CyberLink Power DVD XP4.0 Remote control	Pass
Acer 6406EU-122 CD-ROM	Pass
HP SJ4200C Scanner	Pass
HP Photo Smart P1000 Print	Pass
IOMEGA ZIP 100MB	Pass
D-Link DSB-H4/ DU-H4 HUB	Pass
MITSUMI FLL3.5 D353GUE/FUE	Pass
Floppy Disk Controller Test	Result
Copy and Compare file between C : and A/B	Pass
Format A/B with system transfer and boot PC from floppy	Pass
Change CMOS Floppy is NONE value	Pass
SWAP FDD	Pass
Peripheral Storage Device Compatible test	Result
Fujitsu MO MCB3064SS (SCSI Type)	Pass
IOMEGA ZIP100M (Parallel Type)	Pass
IOMEGA ZIP100M (IDE Type)	Pass
LS-120 / LKM-F930-1 (IDE Type)	Pass
DOC 2000 Model	Pass
Compact Flash	Pass
Digital I/O Connector Test	Result
DIO Function Test	Pass
On Board SCSI Function Test	Result
RICOH Mp7060S / 24X / SCSI-CDROM	Pass
Seagate 32155W / 2.15GB	Pass
Seagate ST39205LW/P / 9GB / Ultra160 / LVD	Pass
Fujitsu MAH3091MP / 9.1GB / Ultra160 / LVD	Pass
Fujitsu MCB3064SS / MO Device	Pass
On Board I / O Function Test	Result
COM Port Send-Receive Test	Pass
Disk On Module [DOM] Compatibility Test	Result
DOM-256-026P / Rev.A1k20 / IDE 40 Pin	Pass
System Integer Application Test	Result
PCI cards integer application	Pass
ISA cards integer application	Pass
PCI and ISA cards integer application	Pass
Riser Card integer application	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 Test	Pass
Boot ROM Test	Pass
COM Address/IRQ Test	Pass
LPT Address /IRQ Test	Pass
Hardware Monitor Test	Pass
Supervisor / User Password Test	Pass
BIOS Awdflash Program Test	Pass
Performance Test – CPU Pentium IV 2.0G , DDRAM 128MB	Result
LandMark Speed 2.0 – CPU	33153.00
LandMark Speed 2.0 – FPU	9071.96
LandMark Speed 2.0 – VIDEO	23976.00
WinBench 99 V1.1- CPU mark99	12.4
WinBench 99 V1.1- FPU winmark	6920
WinBench 99 V1.1- Business Graphic winmark99	444
WinBench 99 V1.1- High_end Graphic winmark99	817
Final Reality V1.01 BenchMark Test – 2D image	16.52
Final Reality V1.01 BenchMark Test – 3D	6.62
Final Reality V1.01 BenchMark Test – Bus transfer	14.40
Final Reality V1.01 BenchMark Test – Overall	10.76
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	2.09
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	70.6
WinStone 99 V1.1 – High_end winstone99	83
WinStone 99 V1.1 – Business winstone99	81.5
Operation System Compatible Test	Result
Linux Red Hat 8.0 version.2-4-18-14	Pass
Windows 98SE English / Chinese version. 4.10.2222A	Pass
Windows 2000 professional English version.5.00.2195	Pass
Windows XP Professional Chinese version. 5.01.2462	Pass
DOS and DOS Utility Compatibility Testing	Pass
Utility and Driver Test	Result
Red hat Linux 8.0 hardware compatible list for VGA	Pass
Red hat Linux 8.0 hardware compatible list for LAN	Pass
Red hat Linux 8.0 hardware compatible list for Audio	Pass
VGA for Windows 98SE (Onboard Intel®82845G Ver:4.13.01.3460)	Pass
VGA for Windows 2000P (Onboard Intel®82845G Ver. 6.13.1.3460)	Pass
VGA for Windows XP (Onboard Intel®82845G Ver: 6.13.1.3460.)	Pass

LAN for Windows 98SE (Intel® 82562 ET 10/100 Base Ver.4.10.2222)	Pass
LAN for Windows 2000P (Intel® 82562 ET 10/100 Base Ver.4.10.2222)	Pass
LAN for Windows XP(Intel® 82562 ET 10/100 Base Ver.4.10.2222)	Pass
Sound for Windows 98SE (ALC 650 Code 6 Channel ,AC97 Code.5.10.5100)	Pass
Sound for Windows 2000P (ALC 650 Code 6 Channel ,AC97 Code.5.10.5100)	Pass
Sound for Windows XP (ALC 650 Code 6 Channel ,AC97 Code.5.10.5100)	Pass
LCD Monitor Function Test	Result
CRT+LCD or CRT+LCD+TV – Dual or Three Display Function Test	Pass
Hyundai / HT17E11-300 / 17"	Pass
Miscellaneous Test	Result
Windows 98 Power manager test	Pass
Windows 2000 Power manager test	Pass
H/W Reset	Pass
Ext. Speaker	Pass
On board buzzer	Pass
Keyboard Lock	Pass
HDD LED	Pass
Power LED	Pass
Ext. KB connector	Pass
Watchdog – reset	Pass
Watchdog – IRQ 15	Pass
Watchdog – Software Programming	Pass
Disable watchdog	Pass
ATX power button	Pass
CPU FAN connector	Pass
COM1	Pass
COM2	Pass
COM2-RS-422	Pass
COM2-RS-485	Pass
COM3	Pass
COM4	Pass
LPT1	Pass
PS2 Keyboard / Mouse	Pass
SIR / 115K bps	Pass
FIR / 4M bps	Pass
TV-out /AV & S Output	Pass
LCD Display Function Test	Pass