

Product Certification Report

Report No: 02E010073

[Trial Run Test Report]

Product Model	PCM-6894
Product description	Socket 370 based Tualatin / Pentium III / Celeron Processor / Compact Board / with LCD, Ethernet, Audio, Compact Flash, & 4 USB Ports
Test reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : PCM-6894 Rev: A0.2 <input checked="" type="checkbox"/> BIOS: PCM-6894 BIOS Rev:0.8 (09/25/2002) <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:

2002-09-30

Issue date

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Supervisor

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Test Engineer

Test result for certification

Stability Test - Dynamic / Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Operating at 0 ~60 for 48hours)	Pass
Audio Play For Sound Codec Chipset Burn-In Test .(Operating at 0 & 60 for 2hours)	Pass
LAN Chipset Burn_In Test. (Operating at 0 and 60 for 2hours)	Pass
Boot_Up Burn_In Test .(Operating at 0 ~60 for 24hours)	Pass
Boot_Up Burn_In Test .(Operating at Room Temperature for 24hours)	Pass
Windows HCT 9.5 system stress test. (Operating at Room Temp. for 8hours)	Pass
Timer Accuracy Test	Result
RTC timer accuracy of +/-3 sec per day.	Pass
System clock accuracy of +/-5 sec per day.	Pass
Watchdog timer accuracy of +/-20 % per sec/ min.	Pass
Margin Test – Power Consumption – PIII 1.4G , SDRAM 128MB	Result
Power VCC 4.75V to 5.25V Margin test .	Pass
Power Connector Test – ATX Power To AT Motherboard	Pass
Electrical characteristics – Normal Mode(+5V)	5.92 A
Electrical characteristics – Suspend Mode(+5V)	5.29 A
Electrical characteristics – Normal Mode(+12V)	0.19 A
Electrical characteristics – Suspend Mode(+12V)	0.17 A
Network HUB / LAN Connects Test -Use " Ping " Programming Testing"	Result
HP J4095A 24Ports [100 /10 Mbps] A to B 100m100Mbps	Pass
HP J4095A 24Ports [100 /10 Mbps] B to A 10m 10Mbps	Pass
D-Link DES-1008 [100 / 10 Mbps] A to B 10m 10Mbps	Pass
D-Link DES-1008 [100 / 10 Mbps] B to A 100m100Mbps	Pass
Intel InBusiness 8 Ports [100 / 10 Mbps] A to B 100m100Mbps	Pass
Intel InBusiness 8 Ports [100 / 10 Mbps] B to A 10m 10Mbps	Pass
LEMEL LM-S5 5 Ports [100 / 10 Mbps] A to B 10m 10Mbps	Pass
LEMEL LM-S5 5 Ports [100 / 10 Mbps] B to A 100m100Mbps	Pass
Accton DeskTop-3005 [100 / 10 Mbps] A to B 100m100Mbps	Pass
Accton DeskTop-3005 [100 / 10 Mbps] B to A 10m 10Mbps	Pass
SVEC FD916H [10 Mbps] A to B 10m 10Mbps	Pass
SVEC FD916H [10 Mbps] B to A 100m 10Mbps	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
Pentium III 1.4G (133 FSB)	Pass

Pentium III 1G (133 FSB)	Pass
Pentium III 1G (100 FSB)	Pass
Pentium III 933 (133 FSB)	Pass
Pentium III 850 (100 FSB)	Pass
Celeron 1.3G (100 FSB)	Pass
Celeron 1.1G (100 FSB)	Pass
Celeron 1G (100 FSB)	Pass
Celeron 766 (66 FSB)	Pass
C3 800 (133)	Pass
C3 750 (100)	Pass
Memory Test – SDRAM PC-133/100	Result
Infineon / HYB39S6480CT-75 / PC133 / 128MB	Pass
NANYA / NT56V6620C0T-75 / PC-133 / 64MB	Pass
NEC / D45128841G5-A75-9JF / PC-133 / 128MB	Pass
NEC / D45128841G5-A10-9JF / PC-100 / 256MB	Pass
NEC / D4564841G5-A80-9JF / PC-100 / 128MB	Pass
NEC / D4564841G5-A10-9JF / PC-100 / 128MB	Pass
NEC / D45128163G5-A75-9JF / PC-133 / 64MB	Pass
NEC / D4564841G5-A80-9JF / PC-100 / 64MB	Pass
MITSUBISHI / M5M4V16S30DTP / PC-100 / 32MB	Pass
Hitachi / 5264805DTTA60 / PC-100 / 64MB	Pass
Hyndai / HY57V658020 TC-10 / PC-100 / 128MB	Pass
Hyndai / HY57V1291620 LTC-10S / PC-100 / 64MB	Pass
NEC / D45128841G5-A75-95F / PC-133 / 256MB	Pass
SEITEC / PM72V56841CT-6 / PC-133 / 512MB	Pass
KINGSTON / Winbond 202DB W982508BH-75 / PC-133 / 512MB	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

VGA Card Compatible Test	Result
3D Blaster Savage 4 / PCI Card	Pass
LEMEL S3 TRIO64V2-DX/GX / ISA Card	Pass
Multi Media Card Compatible Test	Result
Creative Sound BLASTER Live5.1 (PCI bus)	Pass
SCSI Card Compatible Test	Result
APTEC / ASC-29160 (PCI bus)	Pass
Takram DC-395U / V1.02 (PCI 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 (10/100Mbps) (PCI 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 (TV-200200) (PCI)	Pass
RAID Adapter Card Test	Result
ABIT HotRod 100 Pro (PCI bus)	Pass
HDD Compatible Test	Result
IBM DTLA-307075 / 76.8GB / ATA100	Pass
IBM DTLA-307045 / 46.1GB / ATA100	Pass
IBM DHEA-34330 / 4.3GB / ATA33	Pass
Maxtor 54610H6 / 46.1GB / ATA100	Pass
Maxtor 54098U8 / 40.9GB / ATA66	Pass
Maxtor 30768H1 / 7.6GB / ATA-33	Pass
Quantum QMP30000AS-A / 30GB / ATA100	Pass
Quantum Fireball™ Ict/ 20.4GB/ ATA66	Pass
Quantum K13600AT / 13GB / ATA66	Pass
Fujitsu MPE 3136AH / 13.6GB / ATA66	Pass
Fujitsu MPC3043AT-E/ 4.3GB/ ATA33	Pass
CDROM / DVDROM Test	Result
NEC C&C-BCD F561B / 52X	Pass
ASUS CD-S500/A / 50X	Pass
TEAC CD-540E / 40X	Pass
SONY CDU4811-81 / 48X	Pass
CREATIVE CD5220E / 52X	Pass
CREATIVE DVD1240E / 12X / DVD-ROM	Pass
PIONEER ATAPI DVD-A03S / 6X / DVD-ROM	Pass

Acer DVP 1640A /16X /DVD-ROM	Pass
MITSUMI CRMC-FX4824T / 48X	Pass
AFREY CD-2052E / 52X	Pass
BENQ 652A-674/ 52X	Pass
Kodak 4802/ 6X	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
Compact Flash	Pass
Industry Control Adapter Card Compatible Test-PC104/PC104Plus	Result
AAEON PCM-5600 / Fax/Modem Module	Pass
AAEON PCM-3115B / PCMICA Module	Pass
AAEON PCM-3640 / RS-232 Module	Pass
On Board I / O Function Test	Result
COM Port Send-Receive Test	Pass
CheckIt 7.0 Portable Edition 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
CMOS backup 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 III 1.4G , SDRAM 128MB	Result
LandMark Speed 2.0 – CPU	8844
LandMark Speed 2.0 – FPU	20910
LandMark Speed 2.0 – VIDEO	24576
WinBench 99 V1.1- CPU mark99	120
WinBench 99 V1.1- FPU winmark	7670
WinBench 99 V1.1- Business Graphic winmark99	236
WinBench 99 V1.1- High_end Graphic winmark99	1110
Final Reality V1.01 BenchMark Test – 2D image	11.06
Final Reality V1.01 BenchMark Test – 3D	2.88
Final Reality V1.01 BenchMark Test – Bus transfer	4.54
Final Reality V1.01 BenchMark Test – Overall	5.58
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	3.05
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	33.3
WinStone 99 V1.1 – High_end winstone99	60.7
WinStone 99 V1.1 – Business winstone99	34.8
Operation System Compatible Test	Result
Linux Red Hat 7.2	Pass
Windows 98SE English / Chinese version	Pass
Windows ME English / Chinese version	Pass
Windows NT workstation 4.0 English version with service pack 6	Pass
Windows NT server 4.0 English version	Pass
Windows NT server 4.0 Chinese (Simplified character) version	Pass
Windows 2000 professional English version	Pass
Windows 2000 Server Chinese (Simplified character) version	Pass
Windows XP Professional Chinese version	Pass
Windows XP Home Edition English version	Pass
DOS and DOS Utility Compatibility Testing	Pass
Utility and Driver Test	Result
Red hat Linux 7.2 hardware compatible list for VGA	Support
Red hat Linux 7.2 hardware compatible list for LAN	Support
Red hat Linux 7.2 hardware compatible list for Audio	Support

VGA for Windows 98SE (Onboard Silicon Motion Lynx3DM4+ / Driver Ver.4.13.01.0073.)	Pass
VGA for Windows ME (Onboard Silicon Motion Lynx3DM4+ / Driver Ver.4.13.01.0073.)	Pass
VGA for Windows NT 4.0 (Onboard Silicon Motion Lynx3DM4+)	Pass
VGA for Windows 2000P (Onboard Silicon Motion Lynx3DM4+)	Pass
VGA for Windows XP (Onboard Silicon Motion Lynx3DM4+ / Driver Ver.5.01.2401.01430.)	Pass
LAN for Windows 98SE (Onboard Realtek RTL8139C / Driver Ver.5.392.0105.2001)	Pass
LAN for Windows ME (Onboard Realtek RTL8139C / Driver Ver.5.392.0823.2001)	Pass
LAN for Windows NT 4.0 (Onboard Realtek RTL8139C)	Pass
LAN for Windows 2000P (Onboard Realtek RTL8139C)	Pass
LAN for Windows XP(Onboard Realtek RTL8139C / Driver Ver.5.369.0530.2001)	Pass
Sound for Windows 98SE (On Board Avance AC'97 Audio for VIA (R) Audio Controller / 5.10.3840)	Pass
Sound for Windows ME (On Board Avance AC'97 Audio for VIA (R) Audio Controller / 5.10.3840)	Pass
Sound for Windows NT 4.0 (On Board Avance AC'97 Audio for VIA (R) Audio Controller)	Pass
Sound for Windows 2000P (On Board Avance AC'97 Audio for VIA (R) Audio Controller)	Pass
Sound for Windows XP (On Board Avance AC'97 Audio for VIA (R) Audio Controller / 5.10.3840)	Pass
LCD Monitor Function Test	Result
CRT+LCD or TV – Dual or Three Display Function Test	Pass
Toshiba / LTM10C273 / TFT / 800*600	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
HDD LED	Pass
Power LED	Pass
Watchdog – reset	Pass
Watchdog – IRQ 15	Pass
Watchdog – Software Programming	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
DOM	Pass
USB Port	Pass
Compact Flash	Pass
PS2 Keyboard / Mouse	Pass
SIR / 115K bps	Pass
TV-out /AV & S Output	Pass; Note ¹
LCD Display Function Test	Pass

Summary OF Result	
Note ¹	The display of Win98 flag is abnormal on TV, and the following scene in DOS mode is distorted. (The agent has confirmed the problem happened in their demo board also, and they have no solution, it is the limitation for this chip so far.