

Mainboard Product Certification Report

Release No : 03E010211

Product Model	PCM-6893
Product Description	AIO Compact Board.Socket370.LCD/Ethernet/Audio/CFD/4COMs.4USBs ATX.Rev.A1.0
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : PCM-6893 Rev:A0.1 <input checked="" type="checkbox"/> BIOS: PCM-6893 BIOS Rev:0.3 (4/25/2003) PCM-6893 BIOS Rev.1.1 (7/3/2003) <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: <input type="checkbox"/> General Function <input type="checkbox"/> Chipset: North Bridge: South Bridge:

2003-8-26

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Issue date

A.V.P

Test Engineer

Test result for certification

Stability Test - Dynamic / Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Qaplusfe 5.5 Operating at 0°C~60°C for 48hours)	Pass
Dynamic Burn-In test. (Power On/Off Operating at 0°C~60°C for 24hours)	Pass
Audio Play For Sound Codec Chipset Burn-In Test .(Operating at 0°C & 60°C for 2hours)	Pass
LAN Chipset Burn_In Test. (Operating at 0°C & 60°C for 2hours)	Pass
Boot_Up Burn_In Test .(Operating at Room Temp.)	Pass
Timer Accuracy Test	Result
System clock accuracy of +/-5 sec per day.	Pass
RTC timer accuracy of +/-3 sec per day.	Pass
Watchdog timer accuracy of +/-20 % per sec/ min.	Pass
Margin Test – Power Consumption – PIII 1G , SDRAM 256MB	Result
Electrical characteristics – Normal Mode(+3.3V)	0.24 A
Electrical characteristics – Standby Mode(+3.3V)	0.17 A
Electrical characteristics – Normal Mode(+5V)	7.86 A
Electrical characteristics – Standby Mode(+5V)	3.21 A
Electrical characteristics – Normal Mode(+12V)	0.15 A
Electrical characteristics – Standby Mode(+12V)	0.15 A
Power VCC 4.75V to 5.25V Margin test .	Pass
Power Connector Test – AT Power To ATX Motherboard	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
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
Celeron 533 (66 FSB) (.25u)	Pass
C3 800 (133)	Pass
Memory Test – SDRAM PC-133/100	Result
Hyundai / 5264805DTTA60/PC-100 / 64MB	Pass
Hyundai / HY57V1291620L TC-10S/PC-100 / 64MB	Pass
Hyundai / HY57V658020 TC-10/PC-100 / 128MB	Pass
Infineon / HYB39S64800CT-75 / PC133 / 128MB	Pass
NANYA / NT56V6620C0T-75 / PC-133 / 64MB	Pass
NEC / D4564841G5-A80-9JF/PC-100 / 64MB	Pass
NEC / D4564841G5-A80-9JF/PC-100 / 128MB	Pass
NEC / D45128841G5-A75-95F/PC-133 / 256MB	Pass
NEC / D45128841G5-A75-9JF/PC133 / 128MB	Pass
SEITEC / PM72V56841CT-6/PC133 / 512MB	Pass
Winbond / 107DD W982508BH-75/ PC-133/ 512M	Pass
Winbond / 202DBD W982508BH-75/ PC-133 / 128MB	Pass
Hynix / HYNIX HY57V56820BT-H / 512MB	Pass
ELPIDA / 0210PU608000 / 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	Note ¹
Multi Media Card Compatible Test	Result
Creative AUDIO (PCI bus)	Pass
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 (20/100Mbps) (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	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™ lct/ 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
AFREEY CD-2050E / 50X	Pass
BENQ 652A-674/ 52X	Pass
Kodak 4802/ 6X	Pass
RICOH MP7060S/ 24X/ SCSI-CD-ROM	Pass
Acer 6406EU-122/ 4W6R/ USB-CD-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

USB HDD	Note ²
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
IOMEGA ZIP100M (IDE Type)	Pass
LS-120 / LKM-F930-1 (IDE Type)	Pass
DOC 2000 Model	Pass
DOC Onboard Address	Pass
Compact Flash	Pass
Digital I/O Connector Test	Result
DIO Function Test	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-064-426P /Rev.A2A11 / IDE 44 Pin	Pass
System Integer Application Test	Result
PCI cards 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 III 1.4G , DRAM 512MB	Result
LandMark Speed 2.0 – CPU	8844.25

LandMark Speed 2.0 – FPU	41820
LandMark Speed 2.0 – VIDEO	44683
WinBench 99 V1.1- CPU mark99	86.2
WinBench 99 V1.1- FPU winmark	5320
WinBench 99 V1.1- Business Graphic winmark99	172
WinBench 99 V1.1- High_end Graphic winmark99	655
Final Reality V1.01 BenchMark Test – 2D image	9.76
Final Reality V1.01 BenchMark Test – 3D	5.43
Final Reality V1.01 BenchMark Test – Bus transfer	4.43
Final Reality V1.01 BenchMark Test – Overall	6.58
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	1.87
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	38.3
WinStone 99 V1.1 – High_end winstone99	53
WinStone 99 V1.1 – Business winstone99	43.4
Operation System Compatible Test	Result
Linux Red Hat 7.2	Pass
Windows 98SE English / version	Pass
Windows NT workstation 4.0 English version with service pack 6	Pass
Windows NT server 4.0 English version	Pass
Windows 2000 professional English version	Pass
Windows XP Professional Chinese version	Pass
DOS and DOS Utility Compatibility Testing	Pass
Utility and Driver Test	Result
Red hat Linux 7.2 hardware compatible list for VGA	Pass
Red hat Linux 7.2 hardware compatible list for LAN	Pass
Red hat Linux 7.2 hardware compatible list for Audio	Pass
VGA for Windows 98SE (Onboard S3 Twister 4.13.01.3025.)	Pass
VGA for Windows NT 4.0 (Onboard S3 Twister 13.10.02.)	Pass
VGA for Windows 2000P (Onboard S3 Twister 6.13.10.1030)	Pass
VGA for Windows XP (Onboard S3 Twister 6.13.10.1031.)	Pass
LAN for Windows 98SE (Realtek RTL8139DL 5.505.1004.2002)	Pass
LAN for Windows NT 4.0 (Realtek RTL8139DL)	Pass
LAN for Windows 2000P (Realtek RTL8139DL 5.505.1004.2002)	Pass
LAN for Windows XP(Realtek RTL8139DL 5.202.1004.2002)	Pass
4 In 1 for Windows 98SE (4.45V)	Pass
4 In 1 for Windows NT4.0 (4.45V)	Pass
4 In 1 for Windows 2000P (4.45V)	Pass
4 In 1 for Windows XP (4.45V)	Pass
Sound for Windows 98SE (VIA VT82C686B AC97 Codec5.10.00.5035)	Pass
Sound for Windows NT 4.0 (VIA VT82C686B AC97 Codec 4.3.0.3031)	Pass
Sound for Windows 2000P (VIA VT82C686B AC97 Codec 5.10.00.5035)	Pass
Sound for Windows XP (VIA VT82C686B AC97 Codec 5.10.00.5035)	Pass

LCD Monitor Function Test	Result
CRT+LCD or CRT+LCD+TV – Dual or Three Display Function Test	Pass
Fujitsu / FLC38XGC6V-06/ LVDS / 15"	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 – 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
TV-out /AV & S Output	Pass
LCD Display Function Test	Pass

Summary OF Result	
Note¹	The screen display abnormally, while booting Win98, then recover to correct screen.
Note²	The USB HDD can't active in Windows. Insufficient power supply via USB connect.
Note³	CPU frequency 100MHZ. When use ViewSonic E653 as display monitor and BIOS is set as CRT&LCD , then screen for 1'st page in BIOS setup may not display randomly. But the display is correct for 2'nd page of BIOS screen.