

# Product Certification Report

Release No: 05E010028

<b>Product Model</b>	<b>PCM-6893</b>
<b>Product Description</b>	AIO Compact Board.Socket370.LCD/Ethernet/Audio/CFD/4COMs/ 4USBs ATX
<b>Test Reason</b>	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB: PCM-6893 Rev: A1.1-B <input checked="" type="checkbox"/> BIOS: Rev: 1.3 (10/04/2004)  <input checked="" type="checkbox"/> Chipset: <input checked="" type="checkbox"/> CPU Type: Intel Celeron ® 1.3GHz(100*13.0) <input checked="" type="checkbox"/> North Bridge: S3-VIA/PN133T/0427 QA3383.1 <input checked="" type="checkbox"/> South Bridge: VT82C686B/0423CD/13COK4184 <input checked="" type="checkbox"/> VGA Chipset: S3-VIA/PN133T <input checked="" type="checkbox"/> Audio Chipset: Realtek ALC655/53294K1 <input checked="" type="checkbox"/> Ethernet Chipset: Realtek RTL8139DL <input checked="" type="checkbox"/> I/O Chipset: Win bond W83977ET-AW  <input checked="" type="checkbox"/> Remark: NPDP P5 External Report

2005/08/31

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Issue date

Manager

Test Engineer

**Test Result for Certification**

<b>Dynamic / Boot_ UP Burn_ In Test</b>		
<b>Test Method</b>	<b>Test Condition</b>	<b>Result</b>
Diagnostics Software Burn-In Test.	0°C ~60°C, 48 hrs	PASS
Power On/Off Test.	0°C ~60°C, 24hrs	PASS
<b>Voltage Range Test</b>		
Power On/Off Test in DOS-100V Power Function Test	10 times in Room Temperature	PASS
Power On/Off Test in DOS-210V Power Function Test	10 times in Room Temperature	PASS
KB Reset in Dos Mode-100V Power Function Test	20 times in Room Temperature	PASS
<b>I/O Peripheral Function Test – I/O Function</b>		<b>Result</b>
Floppy Connector / Driver A:		PASS
Primary IDE Master		PASS
Primary IDE Slave		PASS
Secondary IDE Master		PASS
Secondary IDE Slave		PASS
Compact Flash - Type I		PASS
Compact Flash - Type II		PASS
DOC (Disk On Chip)		PASS
COM 1		PASS
COM 2-232		PASS
COM 2-422		PASS
COM 2-485		PASS
COM 2-Ring /+5V /+12V		PASS
COM 3		PASS
COM 4		PASS
Clear CMOS		PASS
PS/2 Mouse & Keyboard (Internal)		PASS
Audio Connector		PASS
Audio 5.1 Channel / S/P DIF		PASS
VLCD Voltage (5V or 3.3V)		PASS
LPT 1		PASS
SIR / 115.2 Kbps		PASS
USB 1&2 Ports		PASS
USB 3&4 Ports		PASS
VGA Display		PASS
DIO Connector		PASS
PC/104		PASS
PCI-104		PASS
LCD / TFT		PASS
LCD / LVDS / Channel 1		PASS
LCD / LVDS / Channel 2		PASS
TV-out / AV		PASS
TV-out / S Port Output		PASS
Watchdog Software Control		PASS
<b>I/O Peripheral Function Test –Front Panel and Other connector</b>		<b>Result</b>
Power On Button		PASS
IDE LED		PASS
External Buzzer		PASS
On Board Buzzer		PASS
Power LED		PASS
Reset Switch		PASS
Internal K/B Connector		PASS
CPU FAN Connector		PASS
<b>I/O Peripheral Function Test – Power Connector &amp; Function</b>		<b>Result</b>

ATX Power Connector		PASS		
Big 4P Power Connector		PASS		
Mini 4P Power Connector		PASS		
Option ATX Power Connector (PS-ON / +5VSB)		PASS		
<b>I/O Peripheral Function Test – LAN Connector &amp; Function</b>		<b>Result</b>		
LAN Speed LED	LAN1	PASS		
LAN Active LED	LAN1	PASS		
LAN Link LED	LAN1	PASS		
LAN 10/100 Ethernet		PASS		
<b>I/O Peripheral Function Test – PCI Connector &amp; Function</b>		<b>Result</b>		
PCI Slots		PASS		
<b>Power Consumption Test</b>				
	ATX Power: ST-300BLV		AT Power:	
	CPU: Intel Pentium III 850MHz(100*8.5)	CPU:	CPU:	CPU:
Normal Mode (+5V)	5.04	A	A	A
Suspend Mode (+5V)	1.60	A	A	A
5VSB in Power Off Mode (just for ATX)	0.29	A	A	A
Normal Mode (+12V)	0.05	A	A	A
Suspend Mode (+12V)	0.05	A	A	A
Normal Mode (+3.3V) (just for ATX)	0.37	A	A	A
Suspend Mode (+3.3V) (just for ATX)	0.02	A	A	A
Normal Mode (-12V)	0.29	A	A	A
Suspend Mode (-12V)	0.28	A	A	A
Normal Mode (-5V)	0.29	A	A	A
Suspend Mode (-5V)	0.29	A	A	A
<b>Power Connector Test (110V/220V)</b>		<b>Voltage Range</b>		<b>Result</b>
ATX Connector Power On/Off for 10 times in DOS				PASS
<b>Timer Accuracy Test</b>				
<b>System Clock &amp; RTC Clock Test</b>				
<b>Test Method</b>		<b>Margin for error</b>		<b>Result</b>
System Clock in Power On Mode		+-1 second during 24 hours		PASS
RTC Clock in Power On Mode		+-1 second during 24 hours		PASS
RTC Clock in Power Off Mode		+-1 second during 24 hours		PASS
<b>Watchdog Timer Test</b>				<b>Result</b>
Time-out Interval		10 sec		PASS
		60 sec		PASS
		240 sec		PASS
<b>LAN Location</b>	<b>LAN Speed</b>	<b>HUB Type</b>	<b>HUB Speed</b>	<b>Result</b>
LAN1	10/100 Mbps	HP J4095A 24 Ports	100 Mbps	PASS
		D-Link DGS-1008T	1Gbps	PASS
		Intel In Business 8 Ports	10 Mbps	PASS
		LEMEL LM-S5 5 Ports	100 Mbps	PASS
		Acc ton Desktop-3005	100 Mbps	PASS
		SVEC FD916H	10 Mbps	PASS
<b>Hardware Compatibility</b>				
<b>CPU Compatible Test</b>				
<b>Type</b>	<b>Speed</b>	<b>FSB</b>	<b>Run HCT Version</b>	<b>Result</b>
Intel Celeron ® 1.3GHz(100*13.0)	1.3GHz	100*13.0	9.5	PASS
<b>Memory Compatibility Test</b>				

Brand	Chipset	Frequency	Size	Result
HYNIX	HY57V28820HCT-H/PC133	133	512MB	PASS
NEC	D45128841G5-A75 / PC133	133	256MB	PASS
Transcend	MT48LC16M16A2-75/ C133	133	128MB	PASS
KINGSTON	Winbond202DBW982508BH-75/PC133	133	512MB	PASS

**On Board Audio Function Test**
**Audio Basic Function Test**

		Result
System Sound		PASS
Play CD_IN		PASS
Play Sound Recorder		PASS
Line Out		PASS
Line In		PASS
Line In Sound Record		PASS
MIC Speaker	Dynamic	PASS
	Condenser	PASS
MIC Sound Recorder	Dynamic	PASS
	Condenser	PASS

**Audio 5.1 Channel with S/P DIF Function Test**

		Result
Speaker configuration		PASS
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	PASS
	Output	PASS

**On Board TV Function Test**

		Result
NTSC	AV Port	PASS
	S Port	PASS
PAL	AV Port	PASS

**On Board LCD Function Test**

TFT LCD	Type	Voltage	Result
LVDS	AU B104SN02 / 10.4" / 800*600 / 18bit	3.3V	PASS
	Hyundai HT12X11-200 / 12.1" / 1024*768 / 18bit	3.3V	PASS
	Samsung LTM150XH-L04 / 1024*768 / 24bit	3.3V	PASS
TFT	Toshiba LTM10C209A / 10.4" / 640*480 / 18bit	5V	PASS
	Sharp LQ121S1DG11 / 12.1" / 800*600 / 18bit	3.3V	PASS

**PCI Slot Function (PCI Adapter Card) Test**

Model	Type	Result
EP-P80P Rev:0 .1 PCI Debug Card	Debug Card	PASS
Maxtor G450	VGA Card	PASS
CHAINTECH NVIDIA GeForce4 MX440-8X	VGA Card	PASS
SC3000 CMI8738/C3DX	Sound Card	PASS
Takram DC-395U V1.02	SCSI Card	PASS
D-Link FE-530TX Fast Ethernet Adapter	LAN Card	PASS
Intel SB82559 (10/100Mbps)	LAN Card	PASS
D-Link DGE-530T 1000BASE-T Gigabit Ethernet Adapter	LAN Card	PASS
D-Link DWL-520+ Wireless LAN	LAN Card	PASS
Genuine GM56-AMI2019	Modem Card	PASS
ABIT Hot Rod 100 Pro	RAID Card	PASS
D-Link DU-520 USB 2.0	Other Card	PASS
Tekram TR-822 Serial ATA 150 [SA-001] + SATA HAA Seagate ST312 0026AS 120GB [ID-200305]	Other Card	PASS

**HDD Compatible Test**

Model	Result
Hitachi / HDS722525VLAT80 / 250GB / ATA-100	PASS

IBM / DTLA-307045 / 46.1GB / ATA-100	PASS	
FUJITSU / MPE 3136AH / 13.6GB / ATA-66	PASS	
Maxtor / 4G160J8 / 160GB / ATA-133	PASS	
Quantum / Fireball Plug AS / 30GB / ATA-100	PASS	
Seagate / ST310210A / 10.2GB / ATA-66	PASS	
Western / WD400BB-75DEA0 / 40GB / ATA-100	PASS	
<b>CD/DVD-ROM Compatibility Test</b>		
<b>Model</b>	<b>Result</b>	
Acer DVP1640A / 16X / DVD-ROM	PASS	
Creative DVD1240E / 12X / DVD-ROM	PASS	
IBM HL-DT-ST / GCR-8480B / 48X / CD-ROM	PASS	
Pioneer / DVD-121 / 16X / DVD-ROM	PASS	
PHILIPS CDD5301 / PBC03210G / 32X10X40 / 12X DVD / CD-RW / DVD-ROM	PASS	
SAMSUNG / SH-W08 / DVD+R 8X / DVD-R 8X / CD-R 32X	PASS	
NEC / ND-2500A / DVD R/RW / +R8X-R8X	PASS	
TEAC / CD-540E / 40X / CD-ROM	PASS	
<b>IDE Cable Function test</b>		
<b>IDE Model</b>	<b>Result</b>	
44 Pin Cable ATA33	PASS	
<b>USB Function Test</b>		
<b>USB Basic Function Test</b>		
	<b>Result</b>	
USB Controller	PASS	
USB Keyboard Support	PASS	
<b>USB 1.1 Compatible Test</b>		
	<b>Result</b>	
USB 1.1 Compatible Test	PASS	
<b>USB Extention Devices Function Test</b>		
<b>Model</b>	<b>Type</b>	<b>Result</b>
Cyber Link Power DVD XP4.0	Remote Control	PASS
BENQ 4824WI-ON2	CD-RW	PASS
PLEXTOR PX-S88TU	CD-RW	PASS
USB HDD IBM DARA-206000 6GB [ID-200401] (include USB2.0 2.5" External USB Box)	HDD	PASS
IOMEGA ZIP 100MB	ZIP	PASS
Mitsumi FL3.5D353GUE/FUE	Floppy	PASS
IO Mega ZIP100	ZIP	PASS
<b>Floppy Disk Controller Function Test</b>		<b>Result</b>
Copy and compare file between C: and A / B:		PASS
Change Floppy to None value		PASS
Swap FDD		PASS
<b>Peripheral Compatibility-Storage Device</b>		
<b>Model</b>	<b>Interface</b>	<b>Result</b>
IO mega zip 100 parallel port	Parallel	PASS
IO mega zip 100MB Internal ATAPI Drive	IDE	PASS
DOC2000 M-System / MD2200-D16		PASS
PQI FC512 512MB	Type-I CF Card	PASS
HITACHI / HMS360402D5CF00	Type- II CF Card	PASS
<b>Digital I/O Connector Test</b>		<b>Result</b>
Input Address: 100H		PASS
Output Address: 108H		PASS
VCC: 5V		PASS
DIO-I Function Test		PASS
<b>Adapter Compatibility- Industry Control Card PC/104, PC/104+, PCI-104 Modules</b>		
<b>Interface</b>	<b>Model</b>	<b>Result</b>

PC/104	AAEON PCM-5600	Modem Module	PASS
	AAEON PCM-3115B	PCMCIA Module	PASS
PC1-04	AAEON PCM-3730	Intel 82559 LAN Module	PASS
<b>COM Port Send / Receive Test</b>			<b>Result</b>
Use software program: COMTEST.exe			PASS
Use software program: LL5.exe			PASS
<b>Disk On Module [DOM] Compatibility Test</b>			
<b>Model</b>	<b>Interface</b>		<b>Result</b>
DOM-064-426P Rev: A2A11	IDE 44 Pin		PASS
<b>COM/LPT Ports &amp; RS-232/422/485 Function Test</b>			<b>Result</b>
RS-422 for COM2			PASS
RS-485 for COM2			PASS
COM1			PASS
COM2			PASS
COM3			PASS
COM4			PASS
LPT1			PASS
<b>O.S. Compatibility Test</b>			
<b>Installation Operation System Compatible Test</b>			<b>Result</b>
Linux-Red Hat 9.0 / Kernel 2.4.20-8			PASS
Windows XP Professional English Version V2002 with Service Pack 2			PASS
Windows 2000 Professional English Version V5.00.2195 with Service Pack 4			PASS
Windows 98SE English Version V4.10.2222A			PASS
<b>Utility and Driver Test</b>			
<b>OS</b>	<b>Drivers Version</b>		<b>Result</b>
Linux-Red Hat 9.0 / Kernel 2.4.20-8	VGA		PASS
	AUDIO		PASS
	LAN		PASS
Windows XP Professional English Version V2002 with Service Pack 2	VGA		PASS
	AUDIO		PASS
	LAN		PASS
Windows 2000 Professional English Version V5.00.2195 with Service Pack 4	VGA		PASS
	AUDIO		PASS
	LAN		PASS
Windows 98SE English Version V4.10.2222A	VGA		PASS
	AUDIO		PASS
	LAN		PASS
<b>BIOS Function Test</b>			<b>Result</b>
Standard CMOS Setup Test			PASS
Boot Sequence Test			PASS
Power Management Test			
APM Power Management Test			PASS
ACPI Power Management Test			PASS
Wake Up Event Test			PASS
Power On after Power Failure Test			PASS
CMOS Backup / Clear CMOS Test			PASS
Boot ROM Test (RPL/PXE)			PASS
Supervisor / User Password Test			PASS
CRT / LCD / TV Function Test			PASS
TV Standard Function Test			PASS
Init Display First Function Test			PASS
PC Health Status			
Voltage Monitor Test			PASS
FAN Speed Monitor Test			PASS
Temperature Monitor Test			PASS

Swap Floppy Drive & Boot up Floppy Seek Function Test			
USB Onboard Device Function Test			PASS
COM Address / IRQ Test			PASS
LPT Address / IRQ Test			PASS
BIOS AWDFLASH Program Test			PASS
<b>Touch Screen LCD for Serial Ports Test</b>		<b>Address</b>	<b>IRQ</b>
COM1	3F8	IRQ4	PASS
COM2	2F8	IRQ3	PASS
COM3	3E8	IRQ10	PASS
COM4	2E8	IRQ11	PASS
<b>Performance Test</b>			
<b>English Windows 2000 Professional with SP4 5.00.2195 + 1280x1024x32bit / 60Hz + Direct 9.0</b>			
<b>ZD Win Bench 99 V2.0</b>			<b>Unit</b>
Business Disk WinMark99	5710		Thousand bytes/sec
High-End Disk WinMark99	18700		Thousand bytes/sec
Business Graphics WinMark99	216		
High-End Graphics WinMark99	545		
<b>Final Reality V1.01—Bench Mark Test (Reality Marks)</b>			
2D image	5.06		
3D	4.06		
Bus transfer	4.48		
Overall	4.42		Reality marks
<b>ZD 3D Win bench 2000 V1.1</b>			
3D Win Mark 2000	513		Frames / sec
<b>ZD Multimedia Content Creation Win stone 2004 V 1.0.1</b>			
Multimedia Content Creation Win stone 2004	8.5		
<b>3Dmark2001SE Pro (Demo version)</b>			
3DMark2001SE Build 330_Benchmark mode	314		
<b>English Windows XP Professional with SP2 V2002 + 1280x1024x32bit / 60Hz + Direct 9.0</b>			
<b>Business Win stone 2004 v1.0.1</b>			
Business Winstone2004	1.2		
<b>System Integrated Application Test</b>			<b>Result</b>
System Integrated Application Test (Burn-In 8 Hrs)			PASS