

Product Certification Report

Release No : 04E010022

Product Model	MPC-8890
Product Description	AIO MediaPC. Pentium-M CPU. LCD. Dual LAN. TV out. SATA. 4 COMs. 4 High Speed USB. Mini PCI. 6CH AC97. CFD.
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : MPC-8890 Rev:A0.2 <input checked="" type="checkbox"/> BIOS : MPC-8890 BIOS Rev:1.0 (03/13/2004) <input type="checkbox"/> Renew product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS : <input checked="" type="checkbox"/> Chipset : North Bridge : Intel RG82855GME South Bridge : Intel FW80001ESB <input checked="" type="checkbox"/> Audio Chipset : Realtek ALC655 <input checked="" type="checkbox"/> LAN1 Chipset : Intel 82541GI LAN2 Chipset : Intel 82551QM <input checked="" type="checkbox"/> I/O Chipset : Intel FW80001ESB / ITE IT8712F-A

2004-05-12
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		Pass	
Windows 2000 Professional English Version		Pass	
DOS 6.22 and DOS Utility Compatibility Test		Pass	
Utility and Driver Test		Result	
VGA for Windows XP (Intel 82855GME / 6.14.10.3691(10/8/2003))		Pass	
VGA for Windows 2000P (Intel 82855GME / 6.14.10.3762 (2/10/2004))		Pass	
LAN1 for Windows XP (Intel 82541GI / 7.1.8.0(10/28/2003))		Pass	
LAN1 for Windows 2000P (Intel 82541GI / 7.1.8.0(10/28/2003))		Pass	
LAN2 for Windows XP (Intel 82551QM / 7.3.13.0(10/28/2003))		Pass	
LAN2 for Windows 2000P (Intel 82551QM / 7.3.13.0(10/28/2003))		Pass	
Audio for Windows XP (Realtek ALC655 / 5.10.0.5370(11/13/2003))		Pass	
Audio for Windows 2000P (Realtek ALC655 / 5.10.0.5370(11/13/2003))		Pass	
BIOS Function Test		Result	
Standard CMOS Setup Test		Pass	
Boot Sequence Test		Pass	
APM Power Manager Test		Pass	
ACPI Power Manager Test		Pass	
Wake Up Event Test		Pass	
CMOS Backup / Clear CMOS Test		Pass	
Supervisor / User Password Test		Pass	
CRT/LCD/TV Function Test		Pass	
TV Standard Function Test		Pass	
Init Display First Function Test		Pass	
On-Chip Serial ATA Function Test		Pass	
SATA Mode-IDE/RAID 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
Power On/Off Test.		0°C~60°C, 24hrs	Pass
220V Power On/Off Test.		Room Temperature , 24hrs	Pass
Keyboard Reset Test.		20 Times , DOS Mode	Pass
Windows 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
Secondary IDE Master	Pass
Secondary IDE Slave	Pass
Serial ATA1	Pass
Serial ATA2	Pass
Compact Flash-Type I	Pass
Compact Flash-Type II	Pass
DOM-40Pin	Pass
DOM-44Pin	Pass
COM1	Pass
COM2-232	Pass
COM2-422	Pass
COM2-485	Pass
COM-Ring /+5V /+12V	Pass
COM3	Pass
COM4	Pass
Clear CMOS	Pass
PS/2 Mouse & Keyboard	Pass
Audio Out Selection (W/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 Ports	Pass
USB 3 & 4 Ports	Pass
VGA Display	Pass
DIO Function	Pass
LCD / LVDS	Pass
TV-OUT / AV Output	Pass
TV-OUT / S Output	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 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 (Intel Mobile CPU 1.60GHz 100*16.0)			Result	
Normal Mode (+5V)			1.25 A	
Suspend mode (+5V)			1.19 A	
Normal Mode (+12V)			1.08 A	
Suspend mode (+12V)			0.06 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	
Watchdog Timer Test			Result	
Watchdog Timer Accuracy of +/-20% sec per minute.			Pass	
Network HUB/LAN Connects Test (LAN1/LAN2)			Result	
HUB	Type	Speed	Pass	
	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	
	D-Link DGS-1008T	1Gbps	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)				
CPU Speed	FSB	Spec#	Result	
Cache Size		Vcore		
Pentium-M 1600/1M	100	7321A579 SL6FA RH80535	Pass	
Pentium M 1400/1M	100	Q349A065 SL6F8 RH80535	Pass	
Pentium M 1600/1M	100	7343A478 SL6FA RH80535	Pass	

Memory Test –DDR 266 / 333 / 400		Speed	Size	Result	
SAMSUNG K4H560838C-TCB0		DDR 266	256MB	Pass	
KINGMAX KDL684T4AA-60		DDR 333	256MB	Pass	
SAMSUNG K4H560838C-TCB3		DDR 333	512MB	Pass	
EUDAR DM32M8AT-333A		DDR 333	512MB	Pass	
SAMSUNG K4H280838B-TCB0		DDR 266	256MB	Pass	
Transcend V58C2256804SAT5		DDR 400	256MB	Pass	
PQI PQ3D328D60335CU		DDR 333	256MB	Pass	
KINGSTON KVR333X64C25/256		DDR 333	256MB	Pass	
KINGSTON D3208DL1T-6		DDR 333	256MB	Pass	
KINGSTON KVR266X64C25/512		DDR 266	512MB	Pass	
Transcend V58C2256804SAT5B		DDR 400	512MB	Pass	
Transcend V58C2256804SAT5B		DDR 400	256MB	Pass	
SAMSUNG K4H560438E-GCCC		DDR 400	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				Pass	
S/P DIF Function Test – 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
HYUNDAI HT12X11-200		12.1"	1024*768	18-bit LVDS	Pass
MXX150222030		15"	1024*768	24-bit LVDS	Pass
PCI Slot Function (PCI Adapter Card) Test		Type	Interface	Result	
AAEON MBC-V100		VGA Card	PCI	Pass	
SiS 6326		VGA Card	PCI	Pass	
Adaptec ASC-29160		SCSI Card	PCI	Pass	
Takram DC-395U V1.02		SCSI Card	PCI	Pass	

D-Link FE-530TXFast Ethernet	LAN Card	PCI	Pass
Genuine GM56-AM12019	Modem Card	PCI	Pass
ABIT HotRod 100 Pro	RAID Card	PCI	Pass
HDD Compatible Test	Size	Speed	Result
IBM / IC35L180AVV207-1	185.2GB	ATA-133	Pass
IBM / DTLA-307075	76.8GB	ATA-100	Pass
IBM / DTLA-307045	46.1GB	ATA-100	Pass
Fujitsu / MPE 3136AH	13.6GB	ATA-66	Pass
Maxtor / 94098U8	40GB	ATA-66	Pass
Maxtor / D740X-6L	40GB	ATA-100	Pass
Maxtor / 4G160J8	160GB	ATA-133	Pass
Quantum / Fireball Plug AS	30GB	ATA-100	Pass
Seagate / ST320410A	20GB	ATA-100	Pass
Seagate / ST301021A	10.2GB	ATA-66	Pass
Western / WD200EB-OOCPFO	20GB	ATA-100	Pass
Seagate / ST3120026AS	120GB	SATA	Pass
CD-ROM / DVD-ROM Test	Type	Speed	Result
ACER DVP1640A	DVD-ROM	16X	Pass
AFREEY 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	CDR/RW	6X	Pass
PHILIPS PBC03210G	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
PLEXTIR PX-S88TU		CD-ROM	Pass
USB 2.0 High Speed Device		HDD	Pass
USB 2.0 128MB		Handy Steno	Pass
IOMEGA ZIP 100MB		ZIP	Pass
D-Link DSB-H4/DU-H4		HUB	Pass
Mitsumi FL3.5D353GUE/FUE		USB Floppy	Pass

Floppy Disk Controller Function Test		Result
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
lomega zip 100 parallel port	Parallel	Pass
lomega 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
DOM-064-426P Rev.A2A11	IDE 44 Pin	Pass
Mini PCI Slot Compatibility		Result
RTL8180L Mini PCI Card		Pass
Wireless LAN Compatibility Test	Interface	Result
ANATEL 2001AJ0673 Mini PCI 802.11b Wireless Card	Mini PCI	Pass
RTL8180L Mini PCI Card	Mini PCI	Pass
D-Link DWL-520 + Wireless LAN PCI Adapter	PCI	Pass
COM/LPT Ports & RS232/422/485 Function Test		Result
RS-422		Pass
RS-485		Pass
COM1		Pass
COM2		Pass
COM3		Pass
COM4		Pass
LPT1		Pass
Front Panel & Function Test		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
System Integer Application Test	Result
System Integer Application Test (Burn-in 8 Hrs.)	Pass
System Integer Power Consumption Test	Result
Normal Mode (+5V)	3.52 A
Normal Mode (+12V)	0.67 A
Performance Test –(Intel Mobile CPU 1.60GHz 100*16.0)	Result
WinBench 99 V1.1-- CPUmark 99	184
WinBench 99 V1.1-- FPU WinMark	8890
WinBench 99 V1.1-- Business Graphics WinMark 99	343
WinBench 99 V1.1 -- High-End Graphics WinMark 99	933
WinBench 99 V1.1 – Business Disk WinMark99	11000
WinBench 99 V1.1 – High End Disk WinMark99	37300
3D WinBench 2000 V1.0 Processor Test -- DirectX 7.0 / 1024x768x16Bits	5.02
Content Creation Winstone 2001 -- DirectX 7.0 / 1024x768x16Bits	103.1