AAEON Technology INC.
ISO-9001/ISO-14001 Certified
Industrial Automation PCs

Product Certification Report

Report No: PCM-5896V-T-01

Product Model	**PCM-5896V**
Product description	

Test reason	☑New product
	    ☑PCB : PCM-5896V Rev:A0.2
	    ☑BIOS: PCM-5896V BIOS Rev:1.0 (09/27/2001)
	
	☐Renew product
	    ☐PCB :
	    ☐BIOS:
	
	☐ Revision change
	    ☐PCB :
	    ☐BIOS:
	    ☐Component:

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Issue date	Assistant Manager	Supervisor	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)	**Fail[1]**
LAN Chipset Burn_In Test. (Operating at 0℃ and 60℃ for 2hours)	**Fail[1]**
Boot_Up Burn_In Test .(Operating at 0℃~60℃ for 24hours)	**Fail[1]**
Boot_Up Burn_In Test .(Operating at Room Temperature for 24hours)	Pass
Windows HCT 9.1 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.	**Fail[2]**

Margin Test – Power Consumption – PIII 1G , SDRAM 256MB	Result
Power VCC 4.75V to 5.25V Margin test .	Pass
Power Connector Test – ATX Power Chang To AT Power	Pass
Electrical characteristics – Normal Mode(+5V)	2.75A
Electrical characteristics – Suspend Mode(+5V)	1.65A
Electrical characteristics – Normal Mode(+12V)	0.21A
Electrical characteristics – Suspend Mode(+12V)	0.21A

BIOS Function Test	Result
Y2K Test	Pass
Standard CMOS Setup Test	Pass
Boot Sequence Test	**Note[1]**
APM Power manager test	Pass
Wake Up Event Test	Pass
CMOS backup Test	Pass
COM Address/IRQ Test	Pass
LPT Address /IRQ Test	Pass
Hardware Monitor Test	**Fail[3]**
Supervisor / User Password Test	Pass
BIOS Awdflash Program Test	Pass

Operation System Compatible Test	Result
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
DOS and DOS Utility Compatibility Testing	Pass
Windows NT 4.0 Hardware Compatibility Test (HCT)	Pass

Performance Test – CPU Tillamook MMX-266 , DRAM 128MB	Result
LandMark Speed 2.0 – CPU	900.99
LandMark Speed 2.0 – FPU	3441.09
LandMark Speed 2.0 – VIDEO	12288.00
QAPLUS 5.4/PM – Data Transfer Rate	15140.1
WinStone 99 V1.1 – High_end winstone99	11.4

WinStone 99 V1.1 – Business winstone99	12.4
WinBench 99 V1.1- High_end Graphic winmark99	147
WinBench 99 V1.1- Business Graphic winmark99	47.3
WinBench 99 V1.1- FPU winmark	671
WinBench 99 V1.1- CPU mark99	9.92
Final Reality V1.01 BenchMark Test – 2D image	1.92
Final Reality V1.01 BenchMark Test – 3D	1.83
Final Reality V1.01 BenchMark Test – Bus transfer	2.07
Final Reality V1.01 BenchMark Test – Overall	1.89
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	0.15
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	7.7
Utility and Driver Test	**Result**
VGA for Windows 98SE (Onboard Silicon Motion Lynx 3DM Family 4.13.01.0073.)	Pass
VGA for Windows NT 4.0 (Onboard Smimini compatible display adapter(Lynx3DM) 4.00.1381.0175,4.0.0.)	Pass
LAN for Windows 98SE (Realtek RTL8139C 8-7-2000 5.378.0804.2000)	Pass
LAN for Windows NT 4.0 (Realtek RTL8139C winnt4-8139(378))	Pass
Sound for Windows 98SE (ESS Solo-1 PCI Audio Drive(WDM)10-17-1999 4.10.3038)	Pass
Sound for Windows NT 4.0 (ESS Audio Driver Es1938/1946 Version 4.05.26)	Pass
Memory Test – SDRAM PC-133/100	**Result**
Infineon / HYB39S64800CT-75 / PC133 / 128MB	Pass
NANYA / NT56V6620C0T-75 / PC-133 / 64MB	Pass
NEC / D45128841G5-A10-9JF / PC-100 / 256MB	Pass
NEC / D4564841G5-A10-9JF / PC-100 / 128MB	Pass
NEC / D4564841G5-A80-9JF / PC-100 / 128MB	Pass
NEC / D4564841G5-A80-9JF / PC-100 / 64MB	Pass
Hitachi / 5264805DTTA60 / PC-100 / 64MB	Pass
Hyndai / HY57V658020 TC-10 / PC-100 / 128MB	Pass
Hyndai / HY57V1291620 LTC-10S / PC-100 / 64MB	Pass
CPU Compatible Test	**Result**
Tillamook MMX-266	Pass
HDD Compatible Test	**Result**
IBM DTLA-307075 / 76.8GB / ATA100	Pass
IBM DTLA-307045 / 46.1GB / ATA100	Pass
Maxtor 51536U3 / 15.3GB / ATA66	Pass
Fujitsu MPE 33072 / 30.7GB / ATA100	Pass
Fujitsu MPE 3136AH / 13.6GB / ATA66	Pass
Fujitsu MPC3043AT / 4.3GB / ATA33	Pass
CDROM / DVDROM Test	**Result**
TEAC CD-532E / 32X	Pass
MITSUMI CRMC-FX4824T / 48X	Pass

Network HUB / LAN Function Test	Result
HP J4095A 24Ports [100 /10 Mbps]	Pass
D-Link DES-1008 [100 / 10 Mbps]	Pass
Intel Inbusiness 8 Ports [100 / 10 Mbps]	Pass
LEMEL LM-S5 5 Ports [100 / 10 Mbps]	Pass
Accton DeskTop-3005 [100 / 10 Mbps]	Pass
SVEC FD916H [10M Mbps]	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	No Support
LCD Monitor	**Result**
Samsung / LTM150XS-T01 / TFT / 15"	**Fail[4]**
Toshiba / LTM10C273 / TFT / 10.4"	**Fail[4]**
NEC / NL6448BC33-46 / TFT / 10.4"	**Fail[4]**
SCSI Card Compatible Test	**Result**
AHA-2940U2W (PCI bus)	**Fail[5]**
VGA Card Compatible Test	**Result**
3D Blaster Savage 4 (PCI bus)	**Fail[5]**
LEMEL S3 TRIO64V2-DX/GX (ISA bus)	Pass
S3 Vision 968 (PCI bus)	Pass
LAN Card Compatible Test	**Result**
Intel SB82559 (10/100MB) (PCI bus)	Pass
Function Test	**Result**
On board LAN with 100 feet cable length	Pass
On board VGA function	Pass
On board Audio function	Pass
M-System DOC-2000 Solid State Disk test	Pass
Peripheral Storage Device Compatible test	**Result**
IOMEGA ZIP100M (Parallel Type)	Pass
IOMEGA ZIP100M (IDE Type)	Pass
LS-120 / LKM-F930-1 (IDE Type)	Pass
Photo Smart P1000 Printer (LPT Type)	Pass
33.6 HIGH SPEED MODEM (RS-232)	Pass
Peripheral Input Device Compatible test	**Result**
LEMEL 7932 Keyboard (USB)	Pass

Logitech M-BB48 Mouse (USB)	Pass
HP SJ4200C Scanner (USB)	Pass
HP Photo Smart P1000 Printer (USB)	Pass
IOMEGA ZIP100MB (USB)	Pass
D-Link DSB-H4/DU-H4 HUB (USB)	Pass
DEXIN A2U800A Mouse (USB)	Pass
Microsoft Serial Mouse	Pass
Logitech Mouse Man	Pass
Adam RS-485 (COM2)	Pass
Miscellaneous Test	**Result**
Windows 98 Power manager test	Pass
Floppy Disk Controller	Pass
H/W Reset	Pass
Ext. Speaker	Pass
On board buzzer	Pass
HDD LED	Pass
LAN LED	Pass
Ext. KB connector	Pass
CPU FAN connector	Pass
Primary IDE Master	Pass
Primary IDE Slave	Pass
COM1	Pass
COM2	Pass
COM2-RS-422	Pass
COM2-RS-485	Pass
COM3	Pass
COM4	Pass
LPT1	Pass
PS2 Keyboard / Mouse	Pass
USB Port1	Pass
USB Port 2	Pass
SIR / 115K bps	Pass
DOC	Pass
TV-out /AV Output	Pass

Result Summary

Fail[1]   The system unable to open when temperature is 60 ℃ .

Fail[2]   The system timer accuracy is 8 sec/day , over the limit of 3 sec/day .

Fail[3]   Minus Voltage inspection fail .

Fail[4]   LCD unable show on normal .

Fail[5]   Unable to use .

Note[2]   AHA-2940UW SCSI card unable to use, It can't to test SCSI devices.