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

Product Certification Report

Report No. PCM-5894-R-02

Product Model	PCM-5894
Product description	All-in-One Single Board Pentium Computer with SVGA , Ethernet and 4 Serial ports

Test reason	☐New product
	   ☐PCB :
	   ☐BIOS:
	
	☑Renew product
	   ☑PCB : PCM-5894 Rev:B1.1
	   ☑BIOS: PCM-5894B(69000) All In One Bios Rev 1.1
	         (03/21/2001)
	
	☐ Revision change
	   ☐PCB :
	   ☐BIOS:
	   ☐Component:

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Issue date	Manager	Assistant Manager	Test Engineer

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Test result for certification

Stability Test - Dynamic / Boot_UP Burn_In Test	Result
Dynamic Burn-In test. (Operating at 0℃~60℃ for 48hours)	Pass
Boot_Up Burn_In Test .(Operating at 0℃~60℃ for 24hours)	Pass
Boot_Up Burn_In Test .(Operating at Room Temperature)	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 +/-1 sec per minute.	**Fail**[1]
Margin Test – Power Consumption	**Result**
Power VCC 4.75V to 5.25V Margin test .	Pass
Electrical characteristics – Normal Mode(+5V) for AMD K6-2 300	3.44A
Electrical characteristics – Doze Mode(+5V) for AMD K6-2 300	2.39A
Electrical characteristics – Standby Mode(+5V) for AMD K6-2 300	2.05A
Electrical characteristics -- Suspend Mode(+5V) for AMD K6-2 300	1.28A
BIOS Function Test	**Result**
Y2K Test	Pass
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM Power Manager Test	Pass
CMOS Backup Test	Pass
Boot ROM Test	Pass
LPT Address /IRQ Test	Pass
Operation System Compatible Test	**Result**
Novell Netware 4.11	Pass
Windows 98SE (4.10.2222A) English version	Pass
Windows NT workstation 4.0 (4.00.1381) English version with service pack 6	Pass
Windows NT server 4.0 (4.00.1381) English version	Pass
Windows 2000 professional (5.00.2195) English version	Pass
DOS 6.22 and DOS Utility Compatibility Testing	Pass
Performance Test – CPU AMD K6-2 300 , DRAM 64MB	**Result**
LandMark Speed 2.0 - CPU	3066.11 MHz
LandMark Speed 2.0 - FPU	4941.65 MHz
LandMark Speed 2.0 – VIDEO	15360 Chr/ms
Coretest V3.02 – Average Seek Time	6.6 ms
Coretest V3.02 – Track-Track Seek	1.5 ms
Coretest V3.02 – DTR(Buffered Read)	192 KB/Sec
Coretest V3.02 – Performance ID	9.47
WinStone 99 V1.3 – High_end winstone99	17.6
WinStone 99 V1.3 – Business winstone99	16.6
WinBench 99 V1.1- High_end Graphic winmark99	181
WinBench 99 V1.1- Business Graphic winmark99	61.2

WinBench 99 V1.1- FPU winmark	962
WinBench 99 V1.1- CPU mark99	17
Final Reality V1.01 BenchMark Test – 2D image	2.33
Final Reality V1.01 BenchMark Test – 3D	0.48
Final Reality V1.01 BenchMark Test – Bus transfer	1.45
Final Reality V1.01 BenchMark Test – Overall	1.18
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	0.339
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	11.2
Utility and Driver Test	**Result**
VGA for Windows 98SE (Onboard C&T 69000 4.11.01.2624.)	Pass
VGA for Windows 2000P (Onboard C&T 69000 5.01.137.)	Pass
VGA for Windows NT 4.0 (Onboard C&T 69000 1.29,4.0.29.)	Pass
LAN for Windows 98SE (RTL 8139C 4.10.2222)	Pass
LAN for Windows 2000P (RTL 8139C 5.378.804.2000)	Pass
LAN for Windows NT 4.0 (RTL 8139C 3.90 08/16/2000)	Pass
Memory Test – SDRAM PC-133/100	**Result**
PANASONIC / MN4117405CSJ-06 / 32MB	Pass
LGS / GM71C17403CJ6 / 32MB	Pass
HITACHI / 5165165FLTT6 / 32MB	Pass
CPU Compatible Test	**Result**
Pentium 200	Pass
Pentium MMX 233	Pass
AMD K6-2 300	Pass
AMD K6-2 366(500)	**Fail[2]**
HDD Compatible Test	**Result**
IBM DTLA-307075 / 76.8GB / ATA-100	Pass
IBM DTLA-307045 / 46.1GB / ATA-100	Pass
Maxtor 51536U3 / 15.3GB / ATA-66	Pass
Fujitsu MPC 3043AT / 4.3GB	Pass
Seagate ST315320A / 15.3GB / ATA-66	Pass
W/D AC28400 / 8.4GB	Pass
CDROM / DVDROM Test	**Result**
CREATIVE CD5220E / 52X	Pass
CREATIVE DVD1240E / 12X / DVD-ROM	Pass
RICOH MP7060S / 24X / SCSI-CDROM	Pass
SCSI Card Compatible Test	**Result**
AHA-2940U2WK (PCI bus)	Pass
VGA Card Compatible Test	**Result**
S3-Trio 64V2/DX (PCI bus)	Pass
Creative 3D Blaster Savage 4 (PCI bus)	Pass

LAN Card Compatible Test	Result
Intel SB82559 (PCI bus)	Pass
Realtek RTL8139B (PCI bus)	Pass
Modem Card Compatible Test	**Result**
GVC F2000 56K/V.90 DATA/FAX/MODEN	Pass
Top Solution 56K/V.90 DATA/FAX/MODEN	Pass
Multi Media Card Compatible Test	**Result**
Creative AUDIO	Pass
Adapter Card Compatible Test	**Result**
TUAN DVD MPEG-2 MPEG Card	Pass
Industry Control Adapter Card Compatible Test	**Result**
AAEON PCM-3420 / Fast SCSI Module	Pass
System Integer Application Test	**Result**
PCI cards integer application	Pass
Function Test	**Result**
On board LAN with 100 feet cable length	Pass
On board VGA function	Pass
Boot ROM to Netware 4.11	Pass
DOC-2000 Solid State Disk Test	Pass
Peripheral Storage Device Compatible test	**Result**
IOMEGA ZIP100M (Parallel type)	Pass
Photo Smart P1000 Printer	Pass
33.6 HIGH SPEED MODEM (RS-232)	Pass
FUJITSU MO MCB3064SS	Pass
LS-120 LKM-F934-1 (IDE Type)	Pass
Peripheral Input Device Compatible test	**Result**
LEMEL 7932 Keyboard (USB)	Pass
LEMEL KB-5201 Keyboard	Pass
ACER 6311-TW Keyboard	Pass
Microsoft Serial Mouse	Pass
Logitech Mouse Man (PS/2 ; Serial)	Pass
Chic 4D Mouse (USB)	Pass
Adam RS-485 (COM2)	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
LAN LED	Pass

Watchdog – reset	Pass
Disable watchdog	Pass
CPU FAN connector	Pass
COM2-RS-422	Pass
COM2-RS-485	Pass
USB Port1	Pass
USB Port 2	Pass
SIR ,115K bps	Pass
DOC	Pass

Result Summary

Fail[1]   The watchdos time accuracy is 126 sec. when we set 2 minutes , over the limit of +/-1 sec.

Fail[2]   System halt.