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

Product Certification Report

Report No: SBC-800-S-01

Product Model	**SBC-800**
Product description	**Intel Pentium 4 Socket 478 Full size CPU Card with LVDS,TV-out, AGP4X Dual Ethernet, Audio, High Drive, Compact Flash, & 4 USB ports**
Test reason	☑**New product** 　　☑**PCB : SBC-800 Rev.A0.1** 　　☑**BIOS: SBC – 800 BIOS Rev 0.5 (10/24/2001)** ☐**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 -20℃~80℃ for 48hours)	Pass
Audio Play For Sound Codec Chipset Burn-In Test .(Operating at -20℃ & 80℃ for 2hours)	Pass
LAN Chipset Burn_In Test. (Operating at -20℃ and 80℃ for 2hours)	Pass
Boot_Up Burn_In Test .(Operating at -20℃~80℃ for 24hours)	Pass
Boot_Up Burn_In Test .(Operating at Room Temperature for 24hours)	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.	Pass
Margin Test – Power Consumption – P4 - 2G , SDRAM 256MB	**Result**
Electrical characteristics – Normal Mode(+3.3V)	2.16A
Electrical characteristics -- Standby Mode(+3.3V)	1.47A
Electrical characteristics – Normal Mode(+5V)	1.05A
Electrical characteristics -- Standby Mode(+5V)	0.67A
Electrical characteristics – Normal Mode(+12V)	6.55A
Electrical characteristics -- Standby Mode(+12V)	1.32A
BIOS Function Test	**Result**
Y2K Test	Pass
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
Power On Function test	Pass
Wake Up Event Test	Pass
CMOS backup 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
Operation System Compatible Test	**Result**
Linux Red Hat 7.0	Pass
Netware 4.11	Pass
Netware 5.0	Pass
Windows 98SE English version	Pass
Windows ME English version	Pass
Windows 2000 professional English version	Pass
DOS and DOS Utility Compatibility Testing	Pass
Performance Test – CPU Pentium 4 – 2G , DRAM 256MB	**Result**
LandMark Speed 2.0 – CPU	22102.00
LandMark Speed 2.0 – FPU	6537.50

LandMark Speed 2.0 – VIDEO	27306.00
WinBench 99 V1.1- High_end Graphic winmark99	1200
WinBench 99 V1.1- Business Graphic winmark99	401
WinBench 99 V1.1- FPU winmark	6450
WinBench 99 V1.1- CPU mark99	110
Final Reality V1.01 BenchMark Test – 2D image	14.12
Final Reality V1.01 BenchMark Test – 3D	6.92
Final Reality V1.01 BenchMark Test – Bus transfer	9.71
Final Reality V1.01 BenchMark Test – Overall	9.50
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	2.61
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	43.6
Utility and Driver Test	**Result**
VGA for Windows 98SE (Onboard ATI Mobility Radeon M6 AGP 4X 8M)	Pass
VGA for Windows ME (Onboard ATI Mobility Radeon M6 AGP 4X 8M)	Pass
VGA for Windows 2000P (Onboard ATI Mobility Radeon M6 AGP 4X 8M)	Pass
LAN for Windows 98SE (OnBoard Intel GD82559 & Intel GD82559)	Pass
LAN for Windows ME (OnBoard Intel GD82559 & Intel GD82559)	Pass
LAN for Windows 2000P (OnBoard Intel GD82559 & Intel GD82559)	Pass
Sound for Windows 98SE (ALC200/ ADVANCE AC '97 AUDIO)	Pass
Sound for Windows ME (ALC200/ ADVANCE AC '97 AUDIO)	Pass
Sound for Windows NT 4.0 (ALC200/ ADVANCE AC '97 AUDIO)	Pass
Sound for Windows 2000P (ALC200/ ADVANCE AC '97 AUDIO)	Pass
Red hat Linux 7.0 hardware compatible list for LAN	Pass
Memory Test – SDRAM PC-133/100	**Result**
Infineon / HYB39S64800CT-75 / PC133 / 128MB	Pass
NANYA / NT56V6620C0T-75 / PC-133 / 64MB	Pass
NEC / D45128841G5-A75-95F/PC-133 / 256MB	Pass
CPU Compatible Test	**Result**
Pentium 4 / 2G	Pass
Pentium 4 / 1.9G	Pass
Pentium 4 / 1.7G	Pass
Pentium 4 / 1.5G	Pass
HDD Compatible Test	**Result**
IBM DTLA-307075 / 76.8GB / ATA-100	Pass
IBM DTLA-307045 / 46.1GB / ATA-100	Pass
Maxtor 54610H6 / 46.1GB /ATA-100	Pass
Seagate ST315320A / 15.3GB / ATA-66	Pass
Fujitsu MPE 33072 / 30.7GB / ATA-100	Pass
Quantum 20GB AT Firedall Lct 15	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
AFREEY CD-2050E / 50X	Pass
RICOH MP7060S / 24X / SCSI-CDROM	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
On Board I / O Function Test	**Result**
COM Port Send-Receive Test	Pass
CheckIt 7.0 Portable Edition Test	Pass
LCD Monitor	**Result**
HYUNDAI / HT12X11-200 / 1024*768 / 1Channel / LVDS / 3.3 / 12.1"	Pass
HYUNDAI / HT17E11-100 / 1280*1024 / 2Channel / LVDS / 5V / 17"	Pass
SCSI Card Compatible Test	**Result**
AHA-2940UW (PCI bus)	Pass
AHA-1520B (ISA bus)	Pass
VGA Card Compatible Test	**Result**
LEMEL S3 TRIO64V2-DX/GX (ISA bus)	Pass
LAN Card Compatible Test	**Result**
D-Link DFE540TX (PCI bus)	Pass
RTL-8139B (10/100MB) (PCI bus)	Pass
Intel SB82559 (10/100MB) (PCI bus)	Pass
Intel PILA8560 (10/100MB) (PCI bus)	Pass
Modem Card Compatible Test	Result
GVC F2000 56K/V.90 DATA/FAX/MODEM (PCI bus)	Pass

Genuine GM56-AMI2019 (PCI bus)	Pass
Top Solution Technology 56K /V90 (PCI bus)	Pass
Multi Media Card Compatible Test	**Result**
Creative AUDIO (PCI bus)	Pass
Creative CT4170 (ISA bus)	Pass
Creative SB16 PNP/CT2980 (ISA bus)	Pass
Lemel ESS ES1868F 3D/16 PnP (ISA bus)	Pass
RAID Adapter Card Test	**Result**
ABIT HotRod 100 Pro (PCI bus)	Pass
PROMISE Ultra 100 (PCI bus)	Pass
Industry Control Adapter Card Compatible Test-PC104＋＋	**Result**
AAEON PCM-3730 / Intel 82559 LAN Module / PC104 Plus	Pass
AAEON PCM-3430 / SCSI Module / PC104 Plus	Pass
System Integer Application Test	**Result**
PCI cards integer application	Pass
ISA cards integer application	Pass
PCI and ISA cards integer application	Pass
Function Test	**Result**
On board LAN with 100 feet cable length	Pass
On board VGA function	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
FUJITSU MO MCB3064SS	Pass
Ultra ATA-66 / 100 Test	Pass
Peripheral Input Device Compatible test	**Result**
BTC 7932 Keyboard (USB)	Pass
Logitech M-BB48 Mouse (USB)	Pass
HP SJ4200C Scanner (USB)	Pass
HP Photo Smart P1000 Printer (USB)	Pass
Tekcam P35U Camera (USB)	Pass
IOMEGA ZIP100MB (USB)	Pass
D-Link DU-E10 Ethernet Adapter (USB)	Pass
D-Link DSB-H4/DU-H4 HUB (USB)	Pass
Microsoft Serial Mouse	Pass
Logitech Mouse Man	Pass
Adam RS-485 (COM2)	Pass
Miscellaneous Test	**Result**
Windows 98 Power manager test	Pass

Windows 2000 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
ATX power button	Pass
CPU FAN connector	Pass
Primary IDE Master	Pass
Primary IDE Slave	Pass
Secondary IDE Master	Pass
Secondary IDE Slave	Pass
COM1	Pass
COM2	Pass
COM2-RS-422	Pass
COM2-RS-485	Pass
LPT1	Pass
PS2 Keyboard / Mouse	Pass
USB Port1	Pass
USB Port 2	Pass
SIR / 115K bps	Pass
Compact flash solid state disk / TYPE1 /TYPEII	Pass
TV-out /AV & S Output	Pass