



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

# Product Certification Report

Report No. **SBC-776-P-01**

<b>Product Model</b>	<b>SBC-776</b>
<b>Product description</b>	Socket 370 , Full-size CPU Card , with LCD , Panel Link , Dual Ethernet , Audio , SCSI , Micro AGP , SSD/Compact Flash , & 4 USB Ports
<b>Test reason</b>	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : SBC-776 Rev:A0.4 <input checked="" type="checkbox"/> BIOS: SBC-776 BIOS Rev:1.0 (07/08/2001)  <input type="checkbox"/> Renew product <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS:  <input type="checkbox"/> Revision change <input type="checkbox"/> PCB : <input type="checkbox"/> BIOS: <input type="checkbox"/> Component:

2001-07-17

Issue date

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## Test result for certification

<b>Stability Test - Dynamic / Boot UP Burn In Test</b>	<b>Result</b>
Dynamic Burn-In test. ( Operating at 0°C~60°C for 48hours)	Pass
Audio Play For Sound Codec Chipset Burn-In Test .( Operating at 0°C & 60°C for 2hours)	Pass
LAN Chipset Burn_In Test. ( Operating at 0°C and 60°C for 2hours)	Pass
Boot_Up Burn_In Test .( Operating at 0°C~60°C 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
<b>Timer Accuracy Test</b>	<b>Result</b>
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
<b>Margin Test – Power Consumption – PIII 1G , DRAM 256MB</b>	<b>Result</b>
Power VCC 4.75V to 5.25V Margin test .	Pass
Electrical characteristics – Normal Mode( +5V)	5.77A
Electrical characteristics -- Suspend Mode(+5V)	1.35A
Electrical characteristics – Normal Mode( +12V)	0.21A
Electrical characteristics -- Suspend Mode(+12V)	0.10A
Electrical characteristics – Normal Mode( +3.3V)	2.53A
Electrical characteristics -- Suspend Mode(+3.3V)	2.41A
<b>BIOS Function Test</b>	<b>Result</b>
Y2K test	Pass
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM Power manager test	Pass
Power On Function test	Pass
Wake Up Event Test	Pass
CMOS backup Test	Pass
Boot ROM Test	Pass
COM Address/IRQ Test	Pass
LPT Address /IRQ Test	Pass
Hardware Monitor Test	Pass
<b>Operation System Compatible Test</b>	<b>Result</b>
Red Hat Linux 6.4	Pass
Netware 4.11	Fail <sup>†</sup>
Netware 5.0	Pass
Windows 95 English version	Pass
Windows 98SE English version	Pass
Windows ME English version	Pass
Windows NT workstation 4.0 English version with service pack 6	Pass
Windows 2000 professional English version	Pass
DOS and DOS Utility Compatibility Testing	Pass
<b>Performance Test – CPU Pentium III 1G , DRAM 128MB</b>	<b>Result</b>
LandMark Speed 2.0 - CPU	6326.76MHz
LandMark Speed 2.0 - FPU	41820MHz

LandMark Speed 2.0 – VIDEO	12288Chr/ms
Coretest V3.02 – Average Seek Time	7.7ms
Coretest V3.02 – Track-Track Seek	1.1ms
Coretest V3.02 – DTR(Buffered Read)	9504KB/Sec
Coretest V3.02 – Performance ID	63.71
WinStone 99 V1.3 – High_end winstone99	56.9
WinStone 99 V1.3 – Business winstone99	45.6
WinBench 99 V1.1- High_end Graphic winmark99	891MP/s
WinBench 99 V1.1- Business Graphic winmark99	226TB/s
WinBench 99 V1.1- FPU winmark	5350
WinBench 99 V1.1- CPU mark99	85
Final Reality V1.01 BenchMark Test – 2D image	7.41
Final Reality V1.01 BenchMark Test – 3D	5.97
Final Reality V1.01 BenchMark Test – Bus transfer	8.48
Final Reality V1.01 BenchMark Test – Overall	6.78
3D WinBenech 99 V1.2 – 3D WinMark	311
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	1.91
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	35.3
<b>Utility and Driver Test</b>	<b>Result</b>
VGA for Windows 95 (Onboard 82815 ver.4.13.01.2797)	Pass
VGA for Windows 98SE (Onboard 82815 ver.4.13.01.2797)	Pass
VGA for Windows 2000P (Onboard 82815 ver.5.13.01.2797)	Pass
VGA for Windows NT 4.0 (Onboard 82815 ver.4.03.1381.2797)	Pass
LAN for Windows 95 ( Intel 82559ER)	Pass
LAN for Windows 95 ( Intel 82562ET)	Pass
LAN for Windows 98SE ( Intel 82559ER)	Pass
LAN for Windows 98SE ( Intel 82562ET)	Pass
LAN for Windows 2000P (Intel 82559ER)	Pass
LAN for Windows 2000P (Intel 82562ET)	Pass
LAN for Windows NT 4.0 (Intel 82559ER)	<b>Note<sup>1</sup></b>
LAN for Windows NT 4.0 (Intel 82562ET)	<b>Note<sup>2</sup></b>
SCSI for Windows 95 ( AdvanSys ASC38c0800 Wide Driver 3.2E)	Pass
SCSI for Windows 98SE (AdvanSys ASC38c0800 Wide Driver 3.2E)	Pass
SCSI for Windows NT4.0 (AdvanSys ASC38c0800 Wide Driver 3.2E)	Pass
SCSI for Windows 2000P (AdvanSys ASC38c0800 Wide Driver 3.2E)	Pass
Sound for Windows 95 (Advance AC'97 Audio ver.4.05.00.3060)	<b>Note<sup>3</sup></b>
Sound for Windows 98SE (Advance AC'97 Audio ver.5.12.01.2204)	Pass
Sound for Windows NT 4.0 (Advance AC'97 Audio ver.5.12.01.2204)	Pass
Sound for Windows 2000P (Advance AC'97 Audio ver.5.12.01.2204)	Pass
<b>Memory Test – SDRAM PC-133/100</b>	<b>Result</b>
Infineon/ HYB39564800CT-75/ PC-133/ 128MB	Pass
NEC/ D4564841G5-A10-9JF/ PC-100/ 128MB	Pass
NEC/ D45128841G5-A75-95F/ PC-133/ 256MB	Pass
NEC/ D45128841G5-A10-9JF/ PC-100/ 256MB	Pass
NEC/ D4564841G5-A80-9JF/ PC-100/ 64MB	Pass
NEC/ D4516821AG5-A10-9NF/ PC-100/ 32MB	<b>Fail<sup>2</sup></b>

Hyundai/ HY57V1291620 LTC-10S/ PC-100/ 64MB	Pass
NEC/ D4564841G5-A80-9JF/ PC-125/ 64MB	Pass
NEC/ D4564163G5-A10B-9JF/ PC-100/ 64MB	Pass
LGS/ GM72V661641CT7J / PC-100 / 64MB	Pass
Micron/ MT48LC2M8A1 / PC-100 / 32MB	Pass
<b>CPU Compatible Test</b>	<b>Result</b>
Pentium III 1G (133 FSB)	Pass
Pentium III 933 (133 FSB)	Pass
Pentium III 850 (100 FSB)	Pass
Pentium III 750 (100 FSB)	Pass
Celeron 766 (66 FSB)	Pass
Celeron 633 (66 FSB)	Pass
Celeron 533 (66 FSB)	Pass
Celeron 500 (66 FSB)	Pass
<b>HDD Compatible Test</b>	<b>Result</b>
Fujitsu MPC33043AT-E / 4.32GB / ATA33	Pass
Fujitsu MPE 3136AH / 13.6GB / ATA66	Pass
IBM DTLA-307075/ 76.8GB/ ATA100	Pass
IBM DTLA-307045/ 46.1GB/ ATA100	Pass
Maxtor 94098U8 / 40GB / ATA66	Pass
Maxtor 51536U3 / 15.3GB / ATA66	Pass
Maxtor 54610H6 / 46.1GB / ATA100	Pass
Quantum Fireball K13600AT / 13GB / ATA66	Pass
Seagate ST34520 / 4.55GB / UW-SCSI	Pass
Seagate ST34520LW / 4.55GB / U2W-SCSI	Pass
Seagate ST34520W / 4.55GB / UW-SCSI	Pass
<b>CDROM / DVDROM Test</b>	<b>Result</b>
NEC C&C-BCD F561B/ 52X	Pass
ASUS CD-S500/A/ 50X	Pass
TEAC CD-540E/ 40X	Pass
CREATIVE CD4834E 48X	Pass
CREATIVE DVD1240E/ 12X/ DVD-ROM	Pass
Acer DVP 1640A/ DVD-ROM	Pass
<b>SCSI Card Compatible Test</b>	<b>Result</b>
AHA-2940U (PCI bus)	Pass
AHA-1520B (ISA bus)	Pass
<b>VGA Card Compatible Test</b>	<b>Result</b>
ET-4000AX (ISA bus)	Pass
3D Blaster Savage4 (PCI bus)	Pass
LEMEL S3 TRIO64V2-DX/GX (PCI bus)	Pass
<b>LAN Card Compatible Test</b>	<b>Result</b>
D-Link DFE530TX (PCI bus)	Pass
D-Link DFE540TX (PCI bus)	Pass
3COM 3C905B-TX (ISA bus)	Pass
RTL-8139B (PCI bus)	Pass
Intel PILA 8465 (PCI bus)	Pass

Intel SB82559 (PCI bus)	Pass
<b>Modem Card Compatible Test</b>	<b>Result</b>
LEMEL 33.6 FAX/MODEM (External)	Pass
GVC F2000 56K/ V.90D/ FAX/ MODEM (PCI bus)	Pass
Genuine GM56-AMI2019 (PCI bus)	Pass
Cyber Lander 2000 56K (External)	Pass
<b>Multi Media Card Compatible Test</b>	<b>Result</b>
Creative SB16 PNP/CT2980 (ISA bus)	Pass
Creative AUDIO (PCI bus)	Pass
Creative CT4170 (PCI bus)	Pass
LEMEL ESS ES1868F 3D/16 PnP (ISA bus)	Pass
YUAN DVD MPEG-2 MPEG Card	Pass
<b>System Integer Application Test</b>	<b>Result</b>
PCI cards integer application	Pass
ISA cards integer application	Pass
PCI and ISA cards integer application	Pass
<b>Function Test</b>	<b>Result</b>
On board LAN with 100 feet cable length (onboard Intel 82562ET)	Pass
On board VGA function	Pass
On board U2W SCSI function	Pass
On board Audio function	Pass
DOC-2000 Solid State Disk test	Pass
<b>Peripheral Storage Device Compatible test</b>	<b>Result</b>
IOMEGA ZIP100M ( usb type )	Pass
IOMEGA ZIP100M ( IDE type )	Pass
Compact Flash (Type I,II)	Pass
Photo Smart P1000 Printer	Pass
FUJITSU MO MCB3064SS	Pass
<b>Peripheral Input Device Compatible test</b>	<b>Result</b>
BTC 7932 Keyboard ( USB )	Pass
LEMEL KB-5121 Keyboard	Pass
Microsoft Serial Mouse	Pass
Logitech Mouse Man ( PS/2 ; Serial )	Pass
DEXIN A2U800A ( USB )	Pass
Adam RS-485 ( COM2 )	Pass
<b>Miscellaneous Test</b>	<b>Result</b>
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
Suspend LED	Pass
SCSI LED	Pass
LAN LED	Pass

Ext. KB connector	Pass
Watchdog – reset	Pass
Disable watchdog	Pass
ATX power button	Pass
CPU FAN connector	<b>Note<sup>4</sup></b>
COM2-RS-422	Pass
COM2-RS-485	Pass
USB Port1	Pass
USB Port 2	Pass
Compact flash solid state disk	Pass
DOC	Pass
<b>ATA/66/100 Test</b>	
ATA for Windows 95 ( )	<b>Note<sup>5</sup></b>
ATA for Windows 98SE (Intel Ultra ATA Storage Driver v6.2)	Pass
ATA for Windows NT 4.0 (Intel Ultra ATA Storage Driver v6.2)	Pass
ATA for Windows 2000P (Intel Ultra ATA Storage Driver v6.2)	Pass

<b>Result Summary</b>	
<b>Fail<sup>1</sup></b>	The LAN chip 82559ER isn't supported under NOVELL O.S.
<b>Fail<sup>2</sup></b>	The system halt so can't work.
<b>Note<sup>1</sup></b>	If one driver of dual LAN first be installed, the LAN can't be connect to internet on WinNT4.0 Workstation.
<b>Note<sup>2</sup></b>	If one driver of dual LAN first be installed, the LAN can't be connect to internet on WinNT4.0 Workstation.
<b>Note<sup>3</sup></b>	It has an <a href="#">exclamation mark</a> under Avance AC'97 Audio of device manager, but the Audio function is correctly.
<b>Note<sup>4</sup></b>	BIOS CPUFAN speed can't detect Intel FAN.
<b>Note<sup>5</sup></b>	ATA/100 isn't support under Windows 95.