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

Product Certification Report

Report No: SBC-676-T-01

Product Model	**SBC-676**
Product description	**FC/Socket 370 , Full-Size CPU Card , With LCD , Dual Ethernet , High Drive , AGP 2X ,SSD , 2 USB Ports**

Test reason	☑New product
	    ☑PCB : SBC-676 Rev:A0.2
	    ☑BIOS: SBC-676 BIOS BETA Ver: 1.4 (07/05/2001)
	
	☐Renew product
	    ☐PCB :
	    ☐BIOS:
	
	☐ Revision change
	    ☐PCB :
	    ☐BIOS:
	    ☐Component:

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Issue date	Manager	Assistant Manager	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
LAN Chipset Burn_In Test. (Operating at 0℃ and 60℃ for 2hours)	Pass
Boot_Up Burn_In Test .(Operating at 0℃~60℃ 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 – PIII 850 , SDRAM 256MB	**Result**
Power VCC 4.75V to 5.25V Margin test .	Pass
Power Connector Test – ATX Power / AT Power	Pass
Electrical characteristics – Normal Mode(+3.3V)	0.05A
Electrical characteristics – Suspend Mode(+3.3V)	0.05A
Electrical characteristics – Normal Mode(+5V)	6.33A
Electrical characteristics – Suspend Mode(+5V)	3.61A
Electrical characteristics – Normal Mode(+12V)	0.08A
Electrical characteristics – Suspend Mode(+12V)	0.07A
BIOS Function Test	**Result**
Y2K Test	Pass
Standard CMOS Setup Test	Pass
Boot Sequence Test	Pass
APM Power manager test	**Fail[1]**
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
Supervisor / User Password Test	Pass
Operation System Compatible Test	**Result**
Linux Linpus Linux 6.4	Pass
Netware 4.11	Pass
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 NT server 4.0 English version	Pass
Windows 2000 professional English version	Pass

DOS and DOS Utility Compatibility Testing	Pass
Windows NT 4.0 Hardware Compatibility Test (HCT)	Pass
Performance Test – CPU Pentium III 850 , DRAM 256MB	**Result**
LandMark Speed 2.0 - CPU	5377.69
LandMark Speed 2.0 - FPU	13639.87
LandMark Speed 2.0 – VIDEO	23976
QAPLUS 5.4/PM – Data Transfer Rate	15613.3
WinStone 99 V1.1 – High_end winstone99	43.5
WinStone 99 V1.1 – Business winstone99	34.7
WinBench 99 V1.1- High_end Graphic winmark99	625
WinBench 99 V1.1- Business Graphic winmark99	162
WinBench 99 V1.1- FPU winmark	4540
WinBench 99 V1.1- CPU mark99	73.4
Final Reality V1.01 BenchMark Test – 2D image	6.25
Final Reality V1.01 BenchMark Test – 3D	3.76
Final Reality V1.01 BenchMark Test – Bus transfer	4.17
Final Reality V1.01 BenchMark Test – Overall	4.57
3D WinBenech 2000 v1.0 with DirectX7 and 1024x768x16Bits-Processor Test	1.64
Content Creation Winstone 2000 V1.0 – C.C.Winstone 2000	29.8
100baseT Ethernet transfer rate on MS-DOS client for Novell	3530.594 KBps
Utility and Driver Test	**Result**
VGA for Windows 95 (Onboard ATI RAGE Mobility-M1 4.13.3006.)	Pass
VGA for Windows 98SE (Onboard ATI RAGE Mobility-M1 4.13.3006.)	Pass
VGA for Windows ME (Onboard ATI RAGE Mobility-M1.)	Pass
VGA for Windows 2000P (Onboard ATI RAGE Mobility-M1 5.00.2195.5017.)	Pass
VGA for Windows NT 4.0 (Onboard ATI RAGE Mobility-M1 4.00.1381.3056.)	Pass
LAN for Windows 95 (Intel GD82559)	Pass
LAN for Windows 98SE (Intel GD82559)	Pass
LAN for Windows ME (Intel GD82559)	Pass
LAN for Windows 2000P (Intel GD82559)	Pass
LAN for Windows NT 4.0 (Intel GD82559)	Pass
Linpus Linux 6.4 hardware compatible list for VGA	Support
Linpus Linux 6.4 hardware compatible list for LAN	Support
Memory Test – SDRAM PC-100	**Result**
NEC / D45128841G5-A10-9JF / PC-100 / 256MB	Pass
NEC / D4564163G5-A10B-9JF / PC-100 / 64MB	Pass
Hitachi / 5264805DTTA60 / PC-100 / 64MB	Pass
Hyndai / HY57V658020 TC-10 / PC-100 / 128MB	Pass

CPU Compatible Test	Result
Pentium III 850 (100 FSB)	Pass
Pentium III 750 (100 FSB)	Pass
Celeron 800 (100 FSB)	Pass
Celeron 766 (66 FSB)	Pass
Celeron 633 (66 FSB)	Pass
Celeron 533 (66 FSB) (.25u)	Pass
Celeron 466 (66 FSB) (.25u)	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
Quantum LCT15LC20A011-01-A / 20.4GB / ATA66	Pass
Quantum Fireball EL5 / 5.1GB / ATA33	Pass
Fujitsu MPE 33072 / 30.7GB / ATA100	Pass
Fujitsu MPE 3136AH / 13.6GB / ATA66	Pass
Fujitsu MPC 3043AT / 4.3GB / ATA33	Pass
Seagate ST32155W / 2.15GB / UW-SCSI	Pass
IBM DNES-309170 / 9GB / U2W-SCSI	Pass
CDROM / DVDROM Test	**Result**
TEAC CD-532E / 32X	Pass
CREATIVE DVD1240E / 12X / DVD-ROM	Pass
PIONEER ATAPI DVD-A03S / 6X / DVD-ROM	Pass
Acer DVP 1640A /16X /DVD-ROM	Pass
MITSUMI CRMC-FX4824T / 48X	Pass
SCSI Card Compatible Test	**Result**
AHA-2940UW (PCI bus)	Pass
AHA-1520B (ISA bus)	Pass
VGA Card Compatible Test	**Result**
3D Blaster Savage 4 (PCI bus)	Pass;Note[1]
LEMEL S3 TRIO64V2-DX/GX (PCI bus)	Pass;Note[1]
S3 Vision 968 (PCI bus)	Pass;Note[1]
CIRRUS LOGIC 5429 (ISA bus)	Pass;Note[1]
LAN Card Compatible Test	**Result**
3Com 3C905C-TXM (PCI bus)	Pass
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

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
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
Boot ROM to Netware 5.0	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
FUJITSU MO MCB3064SS	Pass
Peripheral Input Device Compatible test	**Result**
IVORY ACK-298 Keyboard (USB)	Pass
DEXIN A2U800A Mouse (USB)	Pass
HP SJ4200C Scanner (USB)	Pass
HP Photo Smart P1000 Printer (USB)	Pass
Vcam CU-98/A 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 (PS2/Serial)	Pass
Logitech M-BE58 Mouse (PS2)	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
Keyboard Lock	Pass

HDD LED	Pass
Power LED	Pass
LAN LED	Pass
Ext. KB connector	Pass
Watchdog – reset	Pass
Disable watchdog	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
DOC	Pass

Result Summary

Fail[1]   Power Management was set up . In DOS mode , the time was no accurate .

Note[1]   Plugged PCI/ISA VGA card , the "LAN BOOT ROM" will run twice , but the function is correct.