



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

# QE Compatibility Test Plane

**Release No : SBC-676-T-01**

<b>Product Model</b>	<b>SBC-676</b>
<b>Product Description</b>	FC/Socket 370 , Full-Size CPU Card , With LCD , Dual Ethernet , High Drive , AGP 2X ,SSD , 2 USB Ports
<b>Test Reason</b>	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : SBC-676 Rev:A0.2 <input checked="" type="checkbox"/> BIOS: SBC-676 BIOS BETA Ver: 1.4. (07/05/2001)  <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:

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Jason Ho  
Manager

Wenyuan Yang  
Assistant  
Manager

Chasel Wang  
Test Engineer



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**There are 3 test results in this document; they are described as follows:**

**Pass:** It worked perfectly

**Fail:** Test failed, and to be modified in the next version

**N/A:** Outside of specifications or no test equipment

**The test report would be tested and updated after version changed.**

# 1. Dynamic / Boot\_UP Burn\_In Test

## Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
Primary IDE Master	N/A
Primary IDE Slave	N/A
DOC Type	M-System DOC2000 <input type="checkbox"/> 4MB <input type="checkbox"/> 8MB <input checked="" type="checkbox"/> 16MB <input type="checkbox"/> 24MB <input type="checkbox"/> __MB
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Chipset & Driver Version	N/A

## A.Dynamic Burn-In Test:

### A-1.Diagnostics Software Burn\_In Test:

Test Point:

1. Test items includeing system, Memory, Display, Keyboard, LPTs W/ loopback, COMs W/ loopback.

**Test Condition: Under Temperature 0 °C ~ 60 °C(48 Hours)**

Test Program	Result		Note
	Pass	Fail	
Qaplusfe 5.6	✓		Execute Qaplusfe 5.6 Program
AMIDIAG 5.21 [ Option ]	✓		Execute AMIDIAG 5.21 Program

### A-2.Audio Play For Sound Codec Chipset Burn-In Test

**Test Condition : Under Temperature 60 °C (2 Hours)**

Test Method	Software Program	Result		Note
		Pass	Fail	
Play MP3 Sound cycle Test	Winamp 2.6	N/A		WIN98SE O.S.

**Test Condition : Under Temperature 0 °C (2 Hours)**

Test Method	Software Program	Result		Note
		Pass	Fail	
Play MP3 Sound cycle Test	Winamp 2.6	N/A		WIN98SE O.S.

**A-3. LAN Chipset Burn-In Test****Switch HUB Type:****Test Condition : Under Temperature 60 °C (2 Hours)**

Test Method	Software Program	Result		Note
		Pass	Fail	
Play VCD	Media Player	✓		WIN98SE O.S.

**Test Condition : Under Temperature 0 °C (2 Hours)**

Test Method	Software Program	Result		Note
		Pass	Fail	
Play VCD	Media Player	✓		WIN98SE O.S.

**B. Boot\_Up Burn-In Test: Operating System Environment :DOS /Windows Mode.****B-1. Test Condition : Under Temperature 0°C~60°C (24Hours)**

Test Method	Actual	Successful	Failure rate	On time	Off Time	Note
Power On/Off (DOS Mode)	1647	1647	0 %	35 Sec	4 Sec	Allow failure rate under 2/1000
Power On/Off (Windows Mode) [Option]			%	___Sec	___Sec	Allow failure rate under 2/1000

**B-2. Test Condition : Under Room Temperature [ 25°C ].**

Test Method	Actual	Successful	Failure rate	On time	Off Time	Note
H/W Reset 300Times (DOS Mode)	300	300	0 %	30 Sec	5 Sec	
KB Reset 20 Times (DOS Mode)	20	20	0 %			
H/W Reset 300Times (Windows Mode) [Option]			%	___Sec	___Sec	
KB Reset 20 Times (Windows Mode) [Option]			%			

## 2. Timer Accuracy Test

### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
Primary IDE Master	N/A
Primary IDE Slave	N/A
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Chipset & Driver Version	N/A

### A.System Clock & RTC Clock test

#### Test Points:

- 1.This test focuses on the system clock & RTC Clock accurately.
- 2.Setups verify: Verify the System Clock and RTC are marked number correctly during 24hrs at the screen.
- 3.Diagnostics: Setups BIOS RTC Timer to marked number 24hrs.  
Setups System Clock on MS-DOS 6.22 /Win 98 to marked number 24hrs.

#### A-1. Environment Setting: MS-DOS 6.22

#### The Result: Under Temperature 0 ~ 60 °C(Option)

Item Function	Test Times	Margin for error	Acturl	Result		Note
				Pass	Fail	
System Clock	24 hrs	+/-5 sec	0 Sec	✓		Power On
RTC Clock	24 hrs	+/-3 sec	0 Sec	✓		Power On

#### A-2. Environment Setting: Windows 98 SE

#### The Result: Under Temperature 0 ~ 60 °C(Option)

Item Function	Test Times	Margin for error	Acturl	Result		Note
				Pass	Fail	
System Clock	24 hrs	+/-5 sec	Sec			Power On
RTC Clock	24 hrs	+/-3 sec	Sec			Power On

#### A-3. Environment Setting: MS-DOS 6.22

#### The Result: Under Room Temperature 25 °C

Item Function	Test Times	Margin for error	Acturl	Result		Note
				Pass	Fail	
System Clock	24 hrs	+/-5 sec	+1 Sec	✓		Power On
RTC Clock	Static	24 hrs	+/-3 sec	-2 Sec	✓	Power Off
	Dynamic	24 hrs	+/-3 sec	-1 Sec	✓	Power On

**B. Watchdog Timer test****Test Points:**

1. Setups BIOS Watchdog Timer every type Time-out interval.
2. Diagnostics: Can generate a system reset whether on setting time.
3. Attention --Watchdog-IRQ n .

**The Result: Under Room Temperature [ 25°C ] / DOS Mode .**

Time-out interval	IRQ	Margin for error	Acturl	Result		Note
				Pass	Fail	
10 sec		+/-1 sec	-1Sec	✓		
20 sec		+/-1 sec	-1Sec	✓		
30 sec		+/-1 sec	-1Sec	✓		
40 sec		+/-1 sec	-1Sec	✓		
1 min		+/-1 sec	-1Sec	✓		
2 min		+/-1 sec	-1Sec	✓		
4 min		+/-1 sec	-1Sec	✓		

## 3 . Power Consumption

### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
Backplane	BP-219S
DOC	M-System DOC2000 <input type="checkbox"/> 4MB <input type="checkbox"/> 8MB <input checked="" type="checkbox"/> 16MB <input type="checkbox"/> 24MB <input type="checkbox"/> __ MB
Power Supply	DEC DP-ATX725B / 250W
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1

### A. Operating System Environment :

DOS 6.22	Config.sys	Device=c:\dos\himem.sys dos=high,umb files=35 Buffers=40
	Autoexec.bat	Prompt \$p\$g C:\dos\smartdrv.exe /x

### Test Software (DOS Mode):

Test Software	Landmark Speed V.2.0(Speed200.exe)
---------------	------------------------------------

### Test Result:

Mode Type	CPU TYPE				Current
	PIII 850M 100FSB	Celeron 800 100FSB	Celeron 766 66FSB	Celeron 533 66FSB[.25u]	
Normal Mode(+5V)	6.33	6.02	5.27	5.82	Amp/Max
Suspend Mode(+5V)	3.61	3.60	3.30	3.67	Amp/Max
Normal Mode(+12V)	0.08	0.08	0.09	0.09	Amp/Max
Suspend Mode(+12V)	0.07	0.08	0.08	0.08	Amp/Max
Normal Mode(+3.3V)	0.05	0.05	0.05	0.05	Amp/Max
Suspend Mode(+3.3V)	0.05	0.05	0.05	0.05	Amp/Max

### B. Power Margin Test: Play VCD in Win 98 O.S.

Test Point:

1. Play VCD 10 Minutes.

#### Power Supply :

Voltage	Low/High Voltage 110 V / 220 V	Actual Voltage		Result				Note
		110 V	220 V	110V		220V		
				Pass	Fail	Pass	Fail	
5 V	4.75 V	4.8 V	4.83 V	✓		✓		
	5.25 V	5.3 V	5.31 V	✓		✓		
3.3V	3.135V	3.33 V	3.36 V	✓		✓		
	3.465V	3.33 V	3.36 V	✓		✓		
12 V	11.4 V	11.63 V	11.67V	✓		✓		
	12.6 V	12.78 V	12.8 V	✓		✓		

## C. Power Connector Test: AT Power

### Test Point:

1. O.S. :Play VCD in Win 98 O.S.
2. Play VCD 10 Minutes.

### Power Supply :

Voltage	Low/High Voltage 110 V / 220 V	Actual Voltage		Result				Note
		110 V	220 V	110V		220V		
				Pass	Fail	Pass	Fail	
5 V	4.75 V	4.82	4.82	✓		✓		
	5.25 V	5.31	5.31	✓		✓		
12 V	11.4 V	11.68	11.68	✓		✓		
	12.6 V	12.8	12.8	✓		✓		

## 4 . Hardware Compatibility

### A. Component Compatibility- CPU

#### Test Points:

- 1.This test focuses on the compatibility test of all supported processors in the system.
- 2.Setups verify: Verify the processor and L2 are reported correctly during POST at the top of the screen (Reboot 10 times).
- 3.Diagnostics: Run HCT SYSTEM STRESS in Windows NT4.0.

#### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type	CPU Type as below
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	Windows NT 4.0 Workstation Ver.4.00.1381 with SP6
Primary IDE Master	Seagate ST315320A / 15.3GB / ATA66
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1

#### Test Result:

OS	CPU Type	Host Bus CLK	Test Item	Result		Note
				Pass	Fail	
Windows NT 4.0	Pentium III 850	100MHz	CPU CMOS Message	✓		
			HCT System Stress	✓		
	Pentium III 700	100MHz	CPU CMOS Message	✓		
			HCT System Stress	✓		
	Celeron 800	100MHz	CPU CMOS Message	✓		
			HCT System Stress	✓		
	Celeron 766 [.18u]	66MHz	CPU CMOS Message	✓		
			HCT System Stress	✓		
	Celeron 633 [.18u]	66MHz	CPU CMOS Message	✓		
			HCT System Stress	✓		
	Celeron 533 [.25u]	66MHz	CPU CMOS Message	✓		
			HCT System Stress	✓		
	Celeron 466 [.25u]	66MHz	CPU CMOS Message	✓		
			HCT System Stress	✓		

## B. Component Compatibility- SDRAM DIMM Module

### Test Points:

- 1.Setups verify—Verify the memory size is reported correctly during POST at the top of the screen (Reboot 10 times).
- 2.Diagnostics—Run the HCT SYSTEM STRESS program for 8 Hrs each item.

### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	Windows NT 4.0 Workstation Ver.4.00.1381 with SP6
Primary IDE Master	Seagate ST315320A / UDMA66 / 15.3GB
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board S3 Pro Savage

### Memory List:

Item	Brand	DRAM TYPE	Total Size
1	Infineon	HYB39S64800CT-7.5 / PC133	128MB
2	NANYA	NT56V6620C0T-75 / PC-133	64MB
3	Mitsubishi	M2V64S40BTP/PC-100	32MB
4	NEC	D45128841G5-A75-9JF/PC-133	256MB
5	NEC	D45128841G5-A10-9JF/PC-100	256MB
6	NEC	D4564841G5-A10-9JF/PC-100	128MB
7	NEC	D4564841G5-A10-9JF/PC-100	64MB
8	NEC	D4564163G5-A10B-9JF/PC-100	64MB
9	NEC	D4564841G5-A80-9JF/PC-100	64MB
10	NEC	D4516821AG5-A10-9NF/PC-100	32MB
11	Hitachi	5264805DTTA60/PC-100	64MB
12	Hyndai	HY57V658020 TC-10/PC-100	128MB
13	Hyndai	HY57V1291620 LTC-10S/PC-100	64MB
14	Hyndai	HY57V168010D TC-10S/PC-100	32MB
15	SIEMENS	HYB39S16800AT-10/PC-100	32MB
16	LGS	GM72V661641CT7J/PC-100	64MB
17	Micron	MT48LC2M8A1/PC-100	32MB
18			MB
19			MB
20			MB

Environment Description: “DIMM 2(1)” means to insert DIMM item 1 in DIMM slot 2

### Test Result:

Environment Configuration Run HCT System stress	Result		Note
	Pass	Fail	
DIMM 1(1)			
DIMM 2(1)			
DIMM 3(1)			
DIMM 1(1)+DIMM 2(1)+DIMM 3(1)			
DIMM 1(2)			
DIMM 2(2)			
DIMM 3(2)			
DIMM 1(2)+DIMM 2(2)+DIMM 3(2)			
DIMM 1(3)			
DIMM 2(3)			
DIMM 3(3)			
DIMM 1(3)+DIMM 2(3)+DIMM 3(3)			

DIMM 1(4)			
DIMM 2(4)			
DIMM 3(4)			
DIMM 1(4)+DIMM 2(4)+DIMM 3(4)			
DIMM 1(5)	✓		
DIMM 2(5)	✓		
DIMM 3(5)	✓		
DIMM 1(5)+DIMM 2(5)+DIMM 3(5)			
DIMM 1(6)			
DIMM 2(6)			
DIMM 3(6)			
DIMM 1(6)+DIMM 2(6)+DIMM 3(6)			
DIMM 1(7)			
DIMM 2(7)			
DIMM 3(7)			
DIMM 1(7)+DIMM 2(7)+DIMM 3(7)			
DIMM 1(8)	✓		
DIMM 2(8)	✓		
DIMM 3(8)	✓		
DIMM 1(8)+DIMM 2(8)+DIMM 3(8)	✓		DIMM 1(8)+DIMM 2(8) & DIMM 2(8)+DIMM 3(8)
DIMM 1(9)			
DIMM 2(9)			
DIMM 3(9)			
DIMM 1(9)+DIMM 2(9)+DIMM 3(9)			
DIMM 1(10)			
DIMM 2(10)			
DIMM 3(10)			
DIMM 1(10)+DIMM 2(10)+DIMM 3(10)			
DIMM 1(11)	✓		
DIMM 2(11)	✓		
DIMM 3(11)	✓		
DIMM 1(11)+DIMM 2(11)+DIMM 3(11)			
DIMM 1(12)	✓		
DIMM 2(12)	✓		
DIMM 3(12)	✓		
DIMM 1(12)+DIMM 2(12)+DIMM 3(12)			
DIMM 1(13)			
DIMM 2(13)			
DIMM 3(13)			
DIMM 1(13)+DIMM 2(13)+DIMM 3(13)			
DIMM 1(14)			
DIMM 2(14)			
DIMM 3(14)			
DIMM 1(14)+DIMM 2(14)+DIMM 3(14)			
DIMM 1(15)			
DIMM 2(15)			
DIMM 3(15)			
DIMM 1(15)+DIMM 2(15)+DIMM 3(15)			
DIMM 1(16)			
DIMM 2(16)			
DIMM 3(16)			
DIMM 1(16)+DIMM 2(16)+DIMM 3(16)			
DIMM 1(17)			
DIMM 2(17)			
DIMM 3(17)			
DIMM 1(17)+DIMM 2(17)+DIMM 3(17)			

## C.On Board Audio Function Test

### Test Points:

- 1.Installation Test—Verify the indicated board can be installed correctly.
- 2.Software Test—Run the test programs that is supplied with the sound drivers and verify all of the tests function correctly.

### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	Windows 98 SE - 4.10.2222A
Primary IDE Master	Maxtor 54098U8 / 40.9GB / ATA66
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
Audio Card & Driver Version	On Board Intel GD82559
Game Joystick	N/A

### The Result: [No Support]

Function Test	Result		Note
	Pass	Fail	
System Sound			
Play CD_IN			
Play Sound Recorder			
Line Out			
Line In			
Line In Sound Record			
MIC Speaker	Dynamic		Dynamic microphone [DP-001]
	Condenser		Condenser Microphone [DP-200100]
MIC Sound Recorder	Dynamic		Dynamic microphone [DP-001]
	Condenser		Condenser Microphone [DP-200100]
Game Port			Fly Joystick [ Avant Garde Rockfire K5MQF-606i ]
Play VCD 10mins			

## D.PCI Function(PCI Adapter Card) Test

### Test Points:

- 1.This test includes Multimedia Card, SCSI Controller Card, LAN Card and the other PCI Card.
- 2.Install drivers and utilities to verify all functions correct (Including installation, **un-installation**, **reboot**, **suspend and PnP**).
- 3.Run diagnostic test program to verify all kind of PCI Cards one by one then load stress.

### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	Windows 98 SE - 4.10.2222A
Primary IDE Master	Fujitsu MPE3136AH / 13.6GB / ATA66
Primary IDE Slave	TEAC CD-532E / 32X
Secondary IDE Master	N/A
Secondary IDE Slave	N/A
Backplane	BP-213DG-P6 Rev.A1.0
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

### The Result:

Adapter Card VGA Card	Dual Display		Install Driver		Play VCD for least 10 Min		Note
	pass	fail	Pass	Fail	Pass	Fail	
3D Blaster Savage4 [VC-014]	✓		✓		✓		PCI
LEMEL S3 TRIO64V2-DX/GX [VC-001] / 98SE Support	✓		✓		✓		PCI
CIRRUS LOGIC 5429 [VC-008] / 98SE Support	✓		✓		✓		ISA
Adapter Card Sound Card			Install Driver		Play VCD for least 10 Min		Note
			Pass	Fail	Pass	Fail	
Creative AUDIO [SC-003]			✓		✓		PCI
Creative CT4170[SC-006] / 98SE support			✓		✓		ISA
Lemel ESS ES1868F 3D/16 PnP [SC-005] / 98SE Support			✓		✓		ISA
Creative SB16 PNP/CT2980 [SC-002] / 98SE support			✓		✓		ISA
Adapter Card SCSI Card			Install Driver		Play VCD for least 10 Min		Note
			Pass	Fail	Pass	Fail	
AHA-2940U2W [SC-004]							PCI
AHA-2940UW [SC-001] / 98SE support			✓		✓		PCI
AHA-1520B[SC-002] / 98SE support			✓		✓		ISA
Adapter Card Modem Card			Install Driver		Connect to Internet		Note
			Pass	Fail	Pass	Fail	
GVC F2000 56K/V.90 DATA/FAX/MODEM [MD-009]			✓		✓		PCI
Genuine GM56-AMI2019 [MD-007]			✓		✓		PCI
Top Solution Technology 56K / V90 [MD-008]							PCI

Adapter Card LAN Card	Install Driver		Play VCD for least 10 Min		Note
	Pass	Fail	Pass	Fail	
<b>Switch HUB Type</b>					
<b>Intel InBusiness 4-Port 10/100 Switch HUB</b>					
3COM 3C905C-TXM PCI(10/100Mbps)[NW-016]	✓		✓		PCI
D-Link DFE-540TX PCI(10/100Mbps)[NW-012]	✓		✓		PCI
RTL-8139B (10/100Mbps) [NW-002] / 98SE Support	✓		✓		PCI
Intel SB82559 (10/100Mbps) [NW-013] / 98SE Support	✓		✓		PCI
Intel PILA8560 (10/100Mbps) [NW-006] / 98SE Support					ISA
Adapter Card Other Card	Install Driver		Play VCD for least 10 Min		Note
	Pass	Fail	Pass	Fail	
YUAN DVD MPEG-2 MPEG Card [VC-017]	✓		✓		PCI
LEMEL MPEG DECODER [VC-016] / 98SE Support	✓		✓		ISA
UPMOST 1394 CardBus + FireWire 3.5 HardDisk Enclosure					In O.S. WIN98 SE / 98ME /2000 Support
Adapter Card RAID Card	Install Driver		RAID 0 / 1 Function Test		Note
	Pass	Fail	Pass	Fail	
ABIT HotRod 100 Pro					PCI
PROMISE Ultra 100					PCI

**E. Peripheral Compatibility-HDD / CDROM Device****Test Points:**

- 1.This test emphasizes on PCI IDE Devices compatibility test.
- 2.Autosense Test—Verify the HDDs reported correctly during POST after setup(EXP: Capacity up than 40GB).
- 3.Setup BIOS--AUTO, USER and Disable on IDE detect item then reboot 10 times.

**Platform Information:**

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	Fujitsu MPE3136AH / 13.6GB / ATA66
Primary IDE Slave	TEAC CD-532E / 32X
Secondary IDE Master	N/A
Secondary IDE Slave	N/A
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559

**Peripheral Compatibility-HDD / CDROM Device:**

HDD Device	Dectect Message		Booting Up		Read/Write		Play VCD		Note
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
IBM DTLA-307075 / 76.8GB / ATA-100	✓		✓		✓		✓		
IBM DTLA-307045 / 46.1GB / ATA-100	✓		✓		✓		✓		
IBM DHEA-34330 / 4.3GB / ATA-33									
Maxtor 54610H6 / 46.1GB / ATA-100									
Maxtor 54098U8 / 40.9GB / ATA-66									
Maxtor 51536U3 / 15.3GB / ATA-66	✓		✓		✓		✓		
Seagate ST315320A / 15.3GB / ATA-66									
Seagate ST34520 / 4.5GB / ATA-33									
Quantum LCT15LC20A011 / 20.4GB / ATA-66	✓		✓		✓		✓		
Quantum Fireball EL5 / 5.1GB	✓		✓		✓		✓		
Fujitsu MPE 33072 / 30.7GB / ATA-100	✓		✓		✓		✓		
Fujitsu MPE 3136AH / 13.6GB / ATA-66	✓		✓		✓		✓		
Fujitsu MPC 3043AT / 4.3GB / ATA-33	✓		✓		✓		✓		
W/D AC26400 / 6.4GB									
Hitach DK226A-21U / 2.6GB									
Fujitsu MAH3091MP / 9.1GB / Ultra160 / LVD									
Seagate ST32155W / 2.15GB / UW-SCSI	✓		✓		✓		✓		
IBM DNES-309170 / 9GB / U2W-SCSI	✓		✓		✓		✓		
DVD/CD-ROM Device	Dectect Message		Booting Up		Read/Write		Play VCD		Note
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
NEC C&C-BCD F561B / 52X									
ASUS CD-S500A / 50X									
TEAC CD-532E / 32X	✓		✓		✓		✓		
SONY CDU4811-81 / 48X									
CREATIVE CD5220E / 52X									
CREATIVE DVD1240E / 12X / DVD-ROM	✓		✓		✓		✓		
PIONEER ATAPI DVD-A03S / 6X / DVD-ROM	✓		✓		✓		✓		
Acer DVP1640A / 16X / DVD-ROM	✓		✓		✓		✓		
MITSUMI CRMC-FX4824T /48X	✓		✓		✓		✓		
AFREY CD-2050E / 50X									
RICOH MP7060S / 24X / SCSI-CDROM									AHA-2940UW

Full 4 IDE HDD Device		Dectect Message		Booting Up		Read/Write		Play VCD		Note
		Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
P1	Fujitsu MPE 3136AH / 13.6GB / ATA-66	✓		✓		✓		✓		
P2	Fujitsu MPG 3307AT / 30.7GB / ATA-100	✓		✓		✓		✓		
S1	Fujitsu MPC 3043AT / 4.3GB / ATA-33	✓		✓		✓		✓		
S2	IBM DTLA-307045 / 46.1GB / ATA-100	✓		✓		✓		✓		

### E-1.Ultra ATA/66/100 Test

#### Test Points:

- 1.Compare the Performance between ATA/66 and ATA/100 HDD.
- 2.Test Software is WinBench 99 v1.1 .
- 3.Verify ATA RAID Function test.

#### Platform Information: [No Support]

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	Fujitsu MPE3136AH / 13.6GB / ATA66
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Driver & Driver Version	N/A
IDE Driver & Driver Version	

### The Result:

Test Item	Device Model	PROMISE Ultra 100		ABIT HotRod 100 Pro		Note
		ATA/66	ATA/100	ATA/66	ATA/100	
		Maxtor 4098U8 40GB	IBM DTLA- 307030 30.7GB	Maxtor 4098U8 40GB	IBM DTLA- 307030 30.7GB	
<b>WinBench 99 v1.1 [DirectX 7.0 /1024X168X16 bits]</b>						
Business Disk WinMark 99						
High-End Disk WinMark 99						
Disk Access Time (ms)						
Disk CPU Utilization (percent used)						
Disk Transfer Rate: Beginning (kB/s)						
Disk Transfer Rate: End (kB/s)						
Disk Playback/Bus Overall						
Disk Playback/HE Overall						
Avs/Express 3.4						
FrontPage 98						
MicroStation SE						
Photoshop 4.0						
Premiere 4.2						
Sound Forge 4.0						
Visual C++ 5.0						
Disk Playback/Removable Media						

## F .USB Function Test

### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D4564841G5-A10-9JF / PC100 / 128MB
Primary IDE Master	Quantum LCT15LC20A011-01-A / 20.4G / ATA 66
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Driver & Driver Version	N/A

### Device Item:

Item	Device Type	Brand	Model
1	Keyboard [KE-019]	IVORY	ACK-298
2	Mouse [MS-028]	DEXIVN	A2U800A
3	Scanner	HP	SJ4200C
4	Printer	HP	Photo Smart P1000
5	Camera	Vcam	CU-98/A
6	ZIP [CD-017]	IOMEGA	ZIP 100MB
7	Ethernet Adapter [NW-017]	D-Link	DU-E10
8	HUB [HB-009]	D-Link	DSB-H4/DU-H4

Environment Description: “USB2(1)” means to insert USB item 1 device type in USB Port 2.

**Test Result:**

Test Item		Result		Note
		Pass	Fail	
<b>BIOS setup test</b>				
MS-DOS 6.22	USB Legacy Function Test [ACK-298]	✓		Keyboard
Windows 98 SE 4.10.2222A	USB1(1)	✓		
	USB2(2)	✓		
	USB3(3)	N/A		
	USB4(4)	N/A		
	USB1(2)+ USB2(3)	✓		
	USB1(4)+ USB2(5)	✓		
	USB1(7)+ USB2(6)	✓		
	USB1(7)+ {USB2(8)+ USB(1)+ USB(2)+ USB(6)+ USB(5)}	✓		Add USB HUB Switch
	Enable/Disable USB Drive	N/A		
	OS Rebooting Test	✓		
Windows 2000 Professional 5.00.2195	USB1(1)	✓		
	USB2(2)	✓		
	USB3(3)	N/A		
	USB4(4)	N/A		
	USB1(2)+ USB2(6)	✓		
	Enable/Disable USB Drive	N/A		
	OS Rebooting Test	✓		

**G.Floppy Disk Controller****Test Result:**

Test Item		Result (1.44M)		Note
		Pass	Fail	
Copy and Compare file between C: and A/B	MS-DOS 6.22	✓		
	Windows 98 SE 4.10.2222A	✓		
Format A/B with system transfer and boot PC from floppy	MS-DOS 6.22	✓		
	Windows 98 SE 4.10.2222A	✓		
SWAP FDD	MS-DOS 6.22	✓		
	Windows 98 SE 4.10.2222A	✓		

**H. I/O Peripheral Test****Platform Information:**

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
Primary IDE Master	Fujitsu MPE3136AH / 13.6GB / ATA66
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Driver & Driver Version	N/A

**Environment Setting:**

Operating System	Windows 98 SE 4.10.2222A MS-DOS 6.22
------------------	---

**The Result:**

I/O	Pass	Fail	Not support	Note	Reference Page
FDD Driver A:	✓				18 Page
FDD Driver B:	✓				18 Page
Primary IDE Master	✓				15 Page
Primary IDE Slave	✓				15 Page
Secondary IDE Master	✓				15 Page
Secondary IDE Slave	✓				15 Page
COM 1	✓				35 Page
COM 2-232	✓				35 Page
COM 3			✓		35 Page
COM 4			✓		35 Page
COM 2-422	✓				35 Page
COM 2-485	✓				35 Page
PS/2 MOUSE	✓				35 Page
LPT 1	✓				35 Page
LPT 2			✓		35 Page
SIR / 115Kbps	✓				35 Page
FIR / 4M bps			✓		35 Page
DIO			✓		20 Page
DOC	✓				20 Page
Compact Flash			✓		20 Page
TV-out / AV & S Output					35 Page
Function	Pass	Fail	Not support	Notes	Reference Page
H/W Reset	✓				35 Page
Speaker	✓				35 Page
Buzzer	✓				35 Page
Keyboard Lock	✓				35 Page
HDD LED	✓				35 Page
Power LED	✓				35 Page
Ext. K/B Connector	✓				35 Page
ATX Power button	✓				35 Page
CPU FAN Connector	✓				35 Page
LAN LED	✓				35 Page
Watchdog –Reset	✓				6 Page
Watchdog –IRQ n			✓		6 Page

## I. Peripheral Compatibility- Storage Device Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	Fujitsu MPE3136AH / 13.6GB / ATA66
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Driver & Driver Version	N/A

## Device List:

Device item	Booting		Format		Read/Write		Programming		Note
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
ZIP 100 [IDE]	✓		✓		✓		✓		lomega
LS 120 [IDE]	✓		✓		✓		✓		LKM-F930-1
DOC 2000 Model	2MB								M-System / MD2200-D02
	8MB								M-System / MD2200-D08
	16MB	✓		✓		✓	✓		M-System / MD2200-D16
	MB								
	MB								
DOC 2000 MB Memory Segment	CC00								
	D000								
	D400	✓		✓		✓	✓		
	D800	✓		✓		✓	✓		
	DC00	✓		✓		✓	✓		
Compact Flash	Disable	✓		✓		✓	✓		
	340MB								TYPE II / [ CF-001 ]
	32MB								TYPE I / [ MP3-001 ]

## Digital I/O Connector Test: [No Support]

Input Address: \_\_\_\_\_

Output address: \_\_\_\_\_

Device item	Input Address		Output Address		VCC		GND		Note
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
DIO Function Test									

## J. Adapter Compatibility- Industry Control Card / PC104 / PC104 Plus Modules Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	Fujitsu MPE3136AH / 13.6GB / ATA66
Primary IDE Slave	TEAC CD-532E / 32X
Secondary IDE Master	N/A
Secondary IDE Slave	N/A
Backplane	
Riser Card	
VGA Card & Driver Version	
LAN Card & Driver Version	

### Device List: PC/104 Module [No Support]

Device item	Booting / Format		Read / Write		Programming		+/- 12V; +/- 5V		Note
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
AAEON PCM-3600									Fax/Modem Module
AAEON PCM-3420									Fast SCSI-2 Module
AAEON PCM-3660									RTL9019LAN Module
AAEON PCM-3110									PCMCIA Module
AAEON PCM-3115B									PCMCIA Module
AAEON PCM-3640									RS-232 Module

### Device List: PC/104 Plus Module [No Support]

Device item	Booting / Format		Read / Write		Programming		+/- 12V; +/- 5V		Note
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
AAEON PCM-3730									Intel 82559 LAN Module
AAEON PCM-3430									SCSI Module

## K. On-Board SCSI Function Test

### Test Points:

- 1.This test emphasizes on SCSI compatibility test.
- 2.Autosense Test—Verify the HDDs reported correctly during POST after setup(EXP: Capacity up than 40GB).
- 3.Setup BIOS--AUTO, USER and Disable on SCSI ID Address detect item then reboot 10 times.

### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	Fujitsu MPE3136AH / 13.6GB / ATA66
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

### Device List: [No Support]

Device item	Booting		Format		Read / Write		Programming		Note
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
RICOH MP7060S / 24X / <b>SCSI-CDROM</b>									
Seagate ST34520LW / 4.55GB / <b>U2W-SCSI</b>									
Seagate ST34520W / 4.55GB / <b>UW-SCSI</b>									
Fujitsu MAH3091MP / 9.1GB / <b>Ultra160</b> / LVD									
Fujitsu MCB3064SS / <b>MO Device</b>									



## 6 . BIOS Function Test

### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	Quantum LCT 15LC20A011-01-A
Primary IDE Slave	ASUS CD_S500 /A 50X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

### A. Y2K Test:

Y2K Software Test	Result		Note
	Pass	Fail	
TEST2000.EXE	✓		Execute TEST2000 Program
Y2KEYE.EXE (Option)	✓		Execute Y2KEYE Program

### B. Standard CMOS Setup Test:

Test Item	Setting		Function		Note
	Pass	Fail	Pass	Fail	
Data (mm:dd:yy)	✓				
Time (hh:mm:ss)	✓				
IDE Primary Master	✓				
IDE Primary Slave	✓				
IDE Secondary Master	✓				
IDE Secondary Slave	✓				
Floppy Disk A	✓				
Floppy Disk B	✓				

### C. Boot Sequence Test:

Test Item	Result		Note
	Pass	Fail	
A: [Floppy]	✓		
LS-120	✓		
HDD-0:	✓		
SCSI	✓		AHA-2940UW SCSI Card
CDROM	✓		
HDD-1:	✓		
HDD-2:	✓		
HDD-3:	✓		
ZIP100	✓		
LAN [ Boot From LAN First ]	✓		
First Boot Device	✓		
Second Boot Device	✓		
Third Boot Device	✓		
Fourth Boot Device	N/A		

**D:Power Manager Test:****D-1.APM Power Manager Test:**

Test Item	Time	Result		Note
		Pass	Fail	
Normal Mode	1 Min	✓		
Doze Mode	1 Min		✓	
Sleep ( or Standby ) Mode	1 Min		✓	
Suspend Mode	1 Min		✓	
Power Button	Delay 4 Sec	✓		
Power Button	Instant-Off	✓		

**D-2.ACPI Power Manager Test: [No Support]**

Test Item	Result		Note
	Pass	Fail	
S1 (Suspend to RAM)	N/A		
S3 (Suspend to DISK)	N/A		

Note:Supported only ATX Power.

**D-3.Power On Function Test:**

Test Item	Result		Note
	Pass	Fail	
Password	✓		
Hot KEY	✓		
MOUSE Left	N/A		
MOUSE Right	N/A		
Any KEY	✓		
BUTTON ONLY	✓		
Keyboard 98	N/A		

**D-4.Wake Up Event Test:**

Test Item	Result		Note
	Pass	Fail	
Wake On MODEM	✓		
Wake On LAN	✓		
Wake On RTC	N/A		

**E. CMOS Backup Test:**

CMOS Backup Test	Result		Note
	Pass	Fail	
	✓		

**F. Boot ROM Test:**

Boot ROM Test	Result		Note
	Pass	Fail	
Boot ROM to Novell 4.11	✓		HP ProCurve Switch 2224 [ HP J4095A ] HUB
Boot ROM to NT Server 4.0			D-Link DES-1008 Switch HUB

**G. COM Address / IRQ Test:****Mouse: Logitech M-M35**

Test Item	BIOS Adjust		Function		Note
	Pass	Fail	Pass	Fail	
<b>COM 1</b>					
3F8 / IRQ4	✓				
2F8 / IRQ3	✓				
3E8 / IRQ4	✓				
2E8 / IRQ3	✓				
AUTO	✓				
Disable	✓				
<b>COM 2</b>					
3F8 / IRQ4	✓				
2F8 / IRQ3	✓				
3E8 / IRQ4	✓				
2E8 / IRQ3	✓				
AUTO	✓				
Disable	✓				
<b>COM 3 [No Support]</b>					
3E8 / IRQ10					
2E8 / IRQ5					
3F8 / IRQ10					
2F8 / IRQ5					
AUTO					
Disable					
<b>COM 4 [No Support]</b>					
3E8 / IRQ10					
2E8 / IRQ5					
3F8 / IRQ10					
2F8 / IRQ5					
AUTO					
Disable					

**H. LPT Address / IRQ Test:****Printer Type : Photo Smart P1000**

Test Item	BIOS Adjust		Function		Note
	Pass	Fail	Pass	Fail	
<b>LPT 1</b>					
378/IRQ7 ( ECP+EPP/DMA3 )	✓				
278/IRQ5 ( ECP+EPP/DMA3 )	✓				
3BC/IRQ7 ( ECP+EPP/DMA3 )	✓				
Disabled	✓				
<b>LPT1 Mode</b>					
ECP+EPP ( 378 / IRQ7 )	✓				
SPP ( 378 / IRQ7 )	✓				
EPP ( 378 / IRQ7 )	✓				
ECP ( 378 / IRQ7 )	✓				
<b>LPT1 Port DMA Channel</b>					
DMA3 (ECP+EPP 378 / IRQ7 )	✓				
DMA1 (ECP+EPP 378 / IRQ7 )	✓				
<b>LPT2 [No Support]</b>					
278 //IRQ5(ECP+EPP/DMA3)					
3BC//IRQ7(ECP+EPP/DMA3)					
378 //IRQ7(ECP+EPP/DMA3)					
Disable					

<b>LPT2 Mode</b>					
ECP+EPP ( 278 / IRQ5 )					
SPP ( 278 / IRQ5 )					
EPP ( 278 / IRQ5 )					
ECP ( 278 / IRQ5 )					
<b>LPT2 DMA Channel</b>					
DMA3 ( ECP+EPP 278 / IRQ5 )					
DMA1 ( ECP+EPP 278 / IRQ5 )					

**I. Hardware Monitor Test:**

Hardware Monitor Test	Result		Note
	Pass	Fail	
+5V	✓		
- 5V	✓		
+12V	✓		
- 12V	✓		
V I/O	✓		
V Core	✓		
RPM of FAN1	✓		
RPM of FAN2	N/A		
TEMPERATURE 1	✓		
TEMPERATURE 2	N/A		
Alarm	N/A		

**J. Supervisor / User Password Test:**

Hardware Monitor Test	Result		Note
	Pass	Fail	
Supervisor Password	✓		
User Password	✓		

## 7 . Performance Test

### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
O.S.	As below
Monitor Type	CTX VL710ST
Primary IDE Master	IBM DTLA-307045 / 46.1GB / ATA-100
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

### A. Operating System Environment :

MS-DOS 6.22	Config.sys	Device=c:\dos\himem.sys dos=high,umb files=35 Buffers=40
	Autoexec.bat	Prompt \$p\$g c:\dos\smartdrv.exe /x

### Test Result:

CPU Type	Pentium III 850/100	Celeron 800/100[.18]	Celeron 766/66[.18]	Celeron 533/66[.25]	Unit
Testing Utility					
LandMark Speed 2.0					
CPU	5377.69	5061.39	4850.48	3374.22	MHz
FPU	13639.87	12837.49	12302.68	8627.64	MHz
VIDEO	23976	23976	16948	16948	Chr/ms
QAPLUS 5.4 – PM					
Data Transfer Rate	15613.3	15613.3	15373.1	10518.4	KB/Sec
Coretest V3.02					
Average Seek Time	6.1	6.0	5.9	5.5	ms
Track-Track Seek	1.1	1.2	1.2	1.2	ms
DTR (Buffered Read)	10192	10192	8496	8176	KB/Sec
Performance ID	69.68	69.83	59.89	58.66	

**B. Operating System Environment :**

Windows 98	SE 4.10.2222A
Resolution, Depth	1024x768x16bits

**Test Result:**

CPU Type Testing Utility	Pentium III 850/100	Celeron 800/100	Celeron 766/66	Celeron 533/66	Unit
<b>WinBench 99 V1.1- (DirectX 7.0 / 1024X768X16bits)</b>					
H.E. Graphic WinMark 99	625	575	496	390	MP/s
Business Graphic WinMark 99	162	148	135	118	TB/s
FPUmark	4540	4270	4040	2850	
CPUmark 99	73.4	55.3	45.2	36.2	
<b>Final Reality V1.01—BenchMark Test - (DirectX 7.0 / 1024X768X16bits)</b>					
2D image	6.25	5.76	4.26	3.91	
3D	3.76	3.47	3.45	3.39	
Bus transfer	4.17	4.17	3.28	3.38	
Overall	4.57	4.26	3.67	3.55	
<b>3D Winbench 2000 V1.0 - (DirectX 7.0 / 1024X768X16bits)</b> <b>[ Least 120MB Memory In O.S. WIN98 &amp; 2K Support]</b>					
3D Winbench 2000 Processor Test	1.64	1.29	1.02	0.587	
<b>Content Creation Winstone 2000 V1.0 - (DirectX 7.0 / 1024X768X16bits)</b>					
C.C. Winstone 2000	29.8	28.1	24.1	20.7	

**C. Operating System Environment :**

O.S.	Windows NT 4.0 Workstation Ver.4.00.1381 with SP6
Resolution, Depth	1024x768x16bits[65536C]

**Test Result:**

CPU Type Testing Utility	Pentium III 850/100	Celeron 800/100	Celeron 766/66	Celeron 533/66	Unit
<b>WinStone 99 V1.1</b>					
HighEnd WinStone 99	43.5	39.1	33.3	28.6	
Business Winstone 99	34.7	33.6	30.2	27.2	

## 8 . O.S. Compatibility Test

### A. O.S. Compatibility –Linpus Linux 6.4

#### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
Kernel Version	2.2.14-6
Monitor Type	ViewSonic E70
Primary IDE Master	IBM DTLA-307045 / 46.1GB / ATA-100
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

#### Installation Software:

Installation	Result		Note
	Pass	Fail	
Linux 6.4 English	✓		
Linux 7.0 Chinese(Optional)			

#### Test Result:

Test Item	Pass	Fail	Note
<b>Installation to HDD</b>			
Install from CD-ROM	✓		
<b>Network Funtion Test</b>			
LAN Function Test	✓		Connection Network
Ping IP Address	✓		Ping
Telnet IP Address	✓		Telnet
<b>Base Funtion</b>			
Reboot	✓		init 6
Shutdown	✓		init 0
Virtual Consoles	✓		Ctrl+Alt+F[1-7]
<b>Xf86config Setup</b>			
Mouse setup	✓		mouseconfig
VGA setup	✓		Xconfigurator
LAN Setup	✓		netconf / ifconfig
Keyboard Setup	✓		kbdconfig
<b>X Windows Application</b>			
Xclock	✓		
X-Window	✓		startx
<b>Audio / MIC Function Test</b>			
Play Audio Function Test	N/A		Play Audio Test
MIC Function Test	N/A		Microphone Test
<b>Command Test On Text Mode</b>			
Login / Password	✓		
Shutdown now	✓		
Reboot	✓		Restart
Halt	✓		Power Off Mode
ls / clear .....	✓		Command instruction

**B. O.S. Compatibility-Novell Network O.S./V 4.11****Platform Information:**

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 750M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
Switch HUB Type	LEMEL LM-F4S 4Port
Primary IDE Master	IBM DTLA-307045 / 46.1GB / ATA-100
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559

**The Result:**

Test Item	Pass	Fail	Note
<b>Server Function Testing</b>			
Install to IDE HDD	✓		
Boot File Server From HDD	✓		
Down & Exit	✓		
Data Transfer	✓		Data Read / Write / Copy

<b>Client Function Testing</b>			
Login	✓		
Logout	✓		
Data Transfer	✓		Data Read / Write / Copy
Client to Server [ HP ProCurve Switch 2224 / HP J4095A ] HUB	✓		Server: QE Novell 4.11 server Client: MS-DOS 6.22 O.S.

## C. O.S. Compatibility & On\_Board Network Test -Novell Network O.S./V 5.0 Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 750M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
Primary IDE Master	IBM DTLA-307045 / 46.1GB / ATA-100
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Switch HUB Type	LEMEL LM-F4S 4Port
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559

### The Result:

Test Item	Pass	Fail	Note
<b>Server Function Testing</b>			
Install to IDE HDD	✓		
Boot File Server From HDD	✓		
Down & Exit	✓		
Data Transfer	✓		Data Read / Write / Copy
<b>Client Function Testing</b>			
Login	✓		
Logout	✓		
Data Transfer	✓		Data Read / Write / Copy
<b>Novell Network Command Function Testing</b>			
Test Item	Pass	Fail	Note
Load Install	✓		Server site
Load Monitor	✓		Server site
<b>Network Operation System Function Testing</b>			
Test Item	Pass	Fail	Note
NetWare 5.0	✓		From WIN98 OS Connection
<b>Network Performance Testing</b>			
Test Item	Pass	Fail	Note
NWTEST	✓		12 Hrs

<b>Client Application Function Testing</b>			
Test Item	Pass	Fail	Note
Dos 6.22 for IPXODI	✓		
Dos 6.22 for package driver	✓		
Transfer Data Between SRV And WK	✓		Read / Write / Copy

**D. O.S. Compatibility-Windows 95****Platform Information:**

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Celeron 800M / 100
Memory Type	HITACHI 5264805DTTA60 / PC100 / 64MB
Monitor Type	CTX VL710ST
Primary IDE Master	Maxtor 51536U3 / 15.3GB / ATA-66
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	BP-219SG-P4 Rev.A1.0
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1 4.13.3006
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

**Installation Software:**

Installation	Result		Note
	Pass	Fail	
WIN95 English	✓		
WIN95 Chinese(Optional)			

**VGA Driver Testing:**

Resolution	Color	Font Size		Result		Note
		SF	LF	Pass	Fail	
640X480	16					
	256	✓	N/A	✓		
	16bits	✓	N/A	✓		
	24bits	✓	N/A	✓		
	32bits	✓	N/A	✓		
800X600	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1024X768	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1280X1024	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1600X1200	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		

**Test Results:**

Test Item	Pass	Fail	Note
<b>Installation From Storage Device</b>			
Install to IDE HDD	✓		
<b>DOC Device – Read / Write</b>			
DOC      16 MB / DC00      Address	✓		
<b>Boot [ F8 Start up Boot Up Menu ] Item Test</b>			
Normal	✓		
Logged (\BOOTLOG.TXT)	✓		
Safe Mode	✓		
Step By Step Confirmation	✓		
Command Prompt Only	✓		
Safe Mode Command Prompt only	✓		
Previous version of MS-DOS	✓		Before execute Fix95B Program
<b>Function Test</b>			
Serial Mouse	✓		
FDD Format/Copy/Read/Write	✓		
PS/2 Mouse	✓		
System Clock	✓		
<b>Keyboard Function Test</b>			
Alt+F4 [ Quit a Program ]	✓		
Ctrl+Esc [ Display the Start Menu ]	✓		
Alt+Tab [ Switch To Last Windows ]	✓		
Ctrl+Alt+Del [ Close Program ]	✓		
F8 Start up Boot Up Menu	✓		
F4 Boot Up from Previous	✓		Before execute Fix95B Program
<b>Shutdown – Start Menu</b>			
Suspend	N/A		
Shutdown the Computer	✓		
Shutdown Restart	✓		
Shutdown to MS-DOS Mode	✓		
Close all Prog. & Login Other User	N/A		

**E. O.S. Compatibility-Windows 98 SE****Platform Information:**

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
Monitor Type	CTX VL710ST
Primary IDE Master	IBM DTLA-307045 / 46.1GB / ATA-100
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	BP-219SG-P4 Rev.A1.0
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1 4.13.3006
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

**Installation Software:**

Installation	Result		Note
	Pass	Fail	
WIN98 SE English	✓		
WIN98 SE Chinese(Optional)			

**VGA Driver Testing:**

Resolution	Color	Font Size		Result		Note
		SF	LF	Pass	Fail	
640X480	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
800X600	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1024X768	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1280X1024	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1600X1200	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		

**Test Results:**

Test Item	Pass	Fail	Note
<b>Installation From Storage Device</b>			
Install to IDE HDD	✓		
<b>DOC Device – Read / Write</b>			
DOC 16 MB / DC00 Address	✓		
<b>Boot [ F8 – Windows 98 Start up Menu ] Item Test</b>			
Normal	✓		
Logged (\BOOTLOG.TXT)	✓		
Safe Mode	✓		
Step By Step Confirmation	✓		
Command Prompt Only	✓		
Safe Mode Command Prompt Only	✓		
Previous version of MS-DOS	✓		
<b>Function Test</b>			
Serial Mouse	✓		
FDD Format/Copy/Read/Write	✓		
PS/2 Mouse	✓		
USB Mouse/ Keyboard	✓		
IR Mode	✓		
System Clock	✓		
<b>Keyboard Function Test</b>			
Alt+F4 [ Quit a Program ]	✓		
Ctrl+Esc [ Display the Start Menu ]	✓		
Alt+Tab [ Switch To Last Windows ]	✓		
Ctrl+Alt+Del [ Close Program ]	✓		
F8 Start up Boot Up Menu	✓		
F4 Boot Up from Previous – Text Mode	✓		
<b>Shutdown – Start Menu</b>			
Standby	✓		
Shutdown the Computer	✓		
Shutdown Restart	✓		
Shutdown to MS-DOS Mode	✓		
Close all Prog. & Login Other User	N/A		

**F. O.S. Compatibility-Windows ME****Platform Information:**

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 750M / 100
Memory Type	NEC D4564841G5-A10-9JF / PC100 / 128MB
Monitor Type	CTX VL710ST
Primary IDE Master	Fujitsu MPE3136AH / 13.6GB / ATA66
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

**Installation Software:**

Installation	Result		Note
	Pass	Fail	
WIN98 ME English	✓		
WIN98 ME Chinese(Optional)			

**VGA Driver Testing:**

Resolution	Color	Font Size		Result		Note
		SF	LF	Pass	Fail	
640X480	16					
	256	✓	N/A	✓		
	16bits	✓	N/A	✓		
	24bits	✓	N/A	✓		
	32bits	✓	N/A	✓		
800X600	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1024X768	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1280X1024	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1600X1200	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits					

**Test Results:**

Test Item	Pass	Fail	Note
<b>Installation From Storage Device</b>			
Install to IDE HDD	✓		
<b>DOC Device – Read / Write</b>			
DOC 16 MB / DC00 Address	✓		
<b>Boot [ F8 Start up Boot Up Menu ] Item Test</b>			
Normal	✓		
Logged (\BOOTLOG.TXT)	✓		
Safe Mode	✓		
Step By Step	✓		
<b>Function Test</b>			
Serial Mouse	✓		
FDD Format/Copy/Read/Write	✓		
PS/2 Mouse	✓		
USB Mouse/ Keyboard	✓		
IR Mode	✓		
System Clock	✓		
<b>Keyboard Function Test</b>			
Alt+F4 [ Quit a Program ]	✓		
Ctrl+Esc [ Display the Start Menu ]	✓		
Alt+Tab [ Switch To Last Windows ]	✓		
Ctrl+Alt+Del [ Close Program ]	✓		
F8 Start up Boot Up Menu	✓		
F4 Boot Up from Previous	N/A		
<b>Shutdown – Start Menu</b>			
Standby	✓		
Shutdown the Computer	✓		
Shutdown Restart	✓		
Shutdown to MS-DOS Mode	N/A		
Close all Prog. & Login Other User	N/A		

## G. O.S. Compatibility & On\_Board Network Test-Windows NT 4.0 Platform Information(Client Site):

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	HITACHI 5264805DTTA60 / PC100 / 64MB
Monitor Type	ViewSonic E70
Primary IDE Master	Fujitsu MPE3136AH / 13.6GB / ATA66
Primary IDE Slave	MITSUMI CRMC-FX4824T / 48X
Backplane	BP-213DG-P6 Rev.A1.0
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1 4.00.1381.3054
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

### Installation Software:

Installation(With SP6)	Result		Note
	Pass	Fail	
WINDOWS NT4.0 Workstation English	✓		
WINDOWS NT4.0 Server English	✓		
WINDOWS NT4.0 Workstation Chinese(Optional)			
WINDOWS NT4.0 Server Chinese(Optional)			

### VGA Driver Test:

Resolution	Color	Font Size		Result		Note
		SF	LF	Pass	Fail	
640X480	16					
	256	✓	N/A	✓		256C
	16bits	✓	N/A	✓		65536C
	24bits	✓	N/A	✓		16777216C
	32bits	✓	N/A	✓		
800X600	16					
	256	✓	✓	✓		256C
	16bits	✓	✓	✓		65536C
	24bits	✓	✓	✓		16777216C
	32bits	✓	✓	✓		
1024X768	16					
	256	✓	✓	✓		256C
	16bits	✓	✓	✓		65536C
	24bits	✓	✓	✓		16777216C
	32bits	✓	✓	✓		
1280X1024	16					
	256	✓	✓	✓		256C
	16bits	✓	✓	✓		65536C
	24bits	✓	✓	✓		16777216C
	32bits	✓	✓	✓		
1600X1200	16					
	256	✓	✓	✓		256C
	16bits	✓	✓	✓		65536C
	24bits	✓	✓	✓		16777216C
	32bits	✓	✓	✓		

**Test Results:**

Test Item	Pass	Fail	Note
<b>Installation From CD-ROM</b>			
Install to IDE HDD	✓		
<b>DOC Device – Read / Write</b>			
DOC 16 MB / DC00 Address	✓		
<b>Boot</b>			
Boot to Windows NT	✓		
Boot to MS-DOS	✓		
Last known good configuration	✓		
Original Configuration	✓		
Shutdown	✓		
Shutdown & Restart	✓		
<b>CPU/Memory/File System</b>			
Memory size less than 64MB	✓		
Memory size Larger than 64MB	✓		
Virtual memory	✓		
System tasking settings	✓		
FAT	✓		
NTFS	✓		
Network	✓		
System clock	✓		
Task switching	✓		
<b>Function Test</b>			
Serial Mouse	✓		
FDD Format/Copy/Read/Write	✓		
PS/2 Mouse	✓		
System Clock	✓		
<b>Keyboard Function Test</b>			
CapLock,NumLock,ScrLock	✓		
Ctrl+Alt+Del	✓		
Ctrl+Esc,Alt+Tab/Esc/Space	✓		
Alt+Tab,Alt+Esc,Alt+Space	✓		
Ctrl+Alt+Pause/Print Screen	✓		
<b>COM Port</b>			
Serial Mouse	✓		
<b>Security/Audit/Control</b>			
User manager	✓		
Disk administrator	✓		
Performance monitor	✓		
User profile editor	✓		
Event Viewer	✓		
Windows NT Diagnostics	✓		

<b>Network Function Testing</b>			
<b>Test Item</b>	<b>Pass</b>	<b>Fail</b>	<b>Note</b>
Transceiver	✓		
Receiver	✓		
CRC error	✓		
Collision back-off generation	✓		
Auto-negotiation	✓		
<b>Network Operation System Function Testing</b>			
<b>Test Item</b>	<b>Pass</b>	<b>Fail</b>	<b>Note</b>
Windows NT 4.0	✓		
<b>Network Testing</b>			
<b>Test Item</b>	<b>Pass</b>	<b>Fail</b>	<b>Note</b>
Connect to Neighborhood	✓		
<b>Workstation Application Function Testing</b>			
<b>Test Item</b>	<b>Pass</b>	<b>Fail</b>	<b>Note</b>
Windows 98 for NetBEUI	✓		
Windows 98 for TCP/IP	✓		
Windows NT 4.0 for NetBEUI	✓		
Windows NT 4.0 for TCP/IP	✓		
Transfer Data Between SRV And WK	N/A		Mulity Task 12 Hrs(NOTE 1.)

Note : 1.Mulity Task is that transfers files(copy/verify/delet) and VCD in the same time

**H. Microsoft Windows 98 Hardware Compatibility Test(HCT)****Platform Information:**

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 750M / 100
Memory Type	NEC D4564841G5-A10-9JF / PC100 / 128MB
Monitor Type	CTX VL710ST
Primary IDE Master	Maxtor 51536U3 / 15.3GB / ATA-66
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

**Test Result:**

HCT <input type="checkbox"/> 7.2 <input type="checkbox"/> 9.1 Features Test	Pass	Fail	Note
Virtual Dos Mach	✓		
DMPS Test	✓		
Video Playback	✓		
Extended BIOS Parameter Block	✓		
MCI CD Test			
BCT API Test			
INT 13 Extension			
Disk(Stress) Individual Drive			
Disk -CD (Stress)			
Disk (Stress)			
Coprocessor(Stress)	✓		
Net Class Dynamic			
PCI I/O Space	✓		
PCI 2.1 (BIOS)	✓		
PCI 2.1 (Card)	✓		
Unreported I/O	✓		
Unreported Memory	✓		
PnP BIOS			
APM 1.2			
Media Class Dynamic Config			
Wave Drift	✓		

**I. O.S. Compatibility-Windows 2000****Platform Information:**

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
Monitor Type	CTX VL710ST
Primary IDE Master	IBM DTLA-307045 / 46.1GB / ATA-100
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1 5.00.2195.5017
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

**Installation Software:**

Installation(With SP6)	Result		Note
	Pass	Fail	
WINDOWS 2000 Professional English	✓		
WINDOWS 2000 Server English			
WINDOWS 2000 Professional Chinese(Optional)			
WINDOWS 2000 Server Chinese(Optional)			

**VGA Driver Testing:**

Resolution	Color	Font Size		Result		Note
		SF	LF	Pass	Fail	
640X480	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
800X600	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1024X768	16					
	256	✓	✓	✓		
	16bits	✓	✓	✓		
	24bits	✓	✓	✓		
	32bits	✓	✓	✓		
1280X1024	16					
	256					
	16bits					
	24bits					
	32bits					
1600X1200	16					
	256					
	16bits					
	24bits					
	32bits					

**Test Results:**

Test Item	Pass	Fail	Note
<b>Installation From Storage Device</b>			
Install to IDE HDD	✓		
<b>DOC Device – Read / Write</b>			
DOC 16 MB / DC00 Addree		✓	
<b>Boot - Windows 2000 Advanced Options Menu</b>			
Safe Mode	✓		
Safe Mode with Networking	✓		
Safe Mode with Command Prompt	✓		
Enable Boot Logging	✓		
Enable VGA Mode	✓		
Last known Good Configuration	✓		
Directory Services Restore Mode (windows 2000 domain controllers only)	✓		
Debugging Mode	✓		
Boot Normally	✓		
Return to OS Choices Menu	✓		
<b>Function Test</b>			
Serial Mouse	✓		
FDD Format/Copy/Read/Write	✓		
PS/2 Mouse	✓		
USB Mouse/ Keyboard	✓		
IR Mode	✓		
System Clock	✓		
<b>Keyboard Function Test</b>			
Alt+F4 [ Quit a Program ]	✓		
Ctrl+Esc [ Display the Start Menu ]	✓		
Alt+Tab [ Switch To Last Windows ]	✓		
Alt+Esc Switch Windows	✓		
Ctrl+Alt+Del Windows Security Window	✓		
F8 Start up Windows 2000 Advanced Options Menu Menu	✓		
<b>Shutdown – Start Menu</b>			
Log off User	✓		
Shut down	✓		
Restart	✓		

## J. O.S. Compatibility-DOS and DOS Utility Compatibility Testing

### Platform Information:

PCB Model & Version	SBC-676 Rev.A0.2
CPU Type & FSB	Pentium III 850M / 100
Memory Type	NEC D45128841G5-A10-9JF / PC100 / 256MB
Primary IDE Master	IBM DTLA-307045 / 46.1GB / ATA-100
Primary IDE Slave	TEAC CD-532E / 32X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board ATI RAGE MOBILITY-M1
LAN Card & Driver Version	On Board Intel GD82559
Audio Card & Driver Version	N/A

### Test Results:

Test Item	Result		Note
	Pass	Fail	
<b>Installation MS-DOS6.22 From FDD</b>			
Install to IDE HDD	✓		
<b>DOC Device – Read / Write</b>			
DOC 16 MB / DC00 Address	✓		
<b>DOS Commander</b>			
MSD.COM	✓		
EDIT.COM	✓		
EMM386.EXE	✓		
HIMEN.SYS	✓		