



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

QE Compatibility Test Plane

Release No : X-900-P-01

Product Model	X-900
Product Description	FC/Socket 370, LPX-like with LCD, Ethernet, Audio, SSD, 4 USB Ports, & 4 COM Ports
Test Reason	<input checked="" type="checkbox"/> New product <input checked="" type="checkbox"/> PCB : X-900 Rev:A0.1 <input checked="" type="checkbox"/> BIOS: X-900 BIOS Rev:A1.0 (10) 07/20/2001 <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:

2001-07-31

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QE compatibility test plane of version release record:

Date	Version	Item	Note
2001/01/02	QE-0101	First Edition Release.	
2001/02/27	QE-0102	1.Add Red Hat Linux O.S. Test .	
		2.Add DOC 2000 Model / Memory Segment Test .	
2001/05/18	QE-0103	1.Add Power Connector Test: ATX Change To AT Power.	
		2.Add MIC Speaker : Dynamic / Condenser Microphone.	
		3.Add PCI / ISA Adapter Card is External Interface Card.	
		4.Add TV-Out / AV & S Output Function Test.	
		5.Add PC104 Plus Function Test: PCM3730 / 3430 .	
		6.Add Digital I/O Connector Test.	
		7.Add VGA/LAN/Audio for Linux Function Test.	
		8.Add Supervisor / User Password of BIOS Test.	

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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	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 1G / 133
Memory Type	NEC D45128841G5-A75-9JF/ PC133/ 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 Intel (R) 82815E Graphics Controller
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC
Audio Chipset & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller

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	V		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	V		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	V		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	V		WIN98SE O.S.

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

Test Method	Software Program	Result		Note
		Pass	Fail	
Play VCD	Media Player	V		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)	1502	1502	0 %	50 Sec	05 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)	2200	2200	0 %	0.5 Sec	22 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	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 1G / 133
Memory Type	NEC D45128841G5-A75-9JF/ PC133/ 256MB
Primary IDE Master	Fujitsu MPC3043A/ 4.3GB/ ATA33
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4-23-2001
Audio Chipset & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 3-29-2001

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	Sec			Power On
RTC Clock	24 hrs	+/-3 sec	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	0 Sec	√	Power Off
	Dynamic	24 hrs	+/-3 sec	0 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	
05 sec		+/-1 sec	05 Sec	V		
10 sec		+/-1 sec	09 Sec	V		
15 sec		+/-1 sec	14 Sec	V		
20 sec		+/-1 sec	19 Sec	V		
25 sec		+/-1 sec	24 Sec	V		
30 sec		+/-1 sec	29 Sec	V		
01 min		+/-1 sec	59 Sec	V		
02 min		+/-1 sec	119 Sec	V		
03 min		+/-1 sec	179 Sec	V		
04 min		+/-1 sec	239 Sec	V		

3 . Power Consumption

Platform Information:

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 1G / 133
Memory Type	NEC D45128841G5-A75-9JF/ PC133/ 256MB
Backplane	N/A
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	Seventeam ST250GL 250W
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller

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 1G 133FSB	PIII 850 100FSB	Celeron 766 66FSB	Celeron 533 66FSB[.25u]	
Normal Mode(+5V)	7.2	6.2	5.70	6.35	Amp/Max
Suspend Mode(+5V)	3.12	2.65	2.59	2.65	Amp/Max
Normal Mode(+12V)	0.26	0.25	0.25	0.26	Amp/Max
Suspend Mode(+12V)	0.15	0.15	0.15	0.15	Amp/Max
Normal Mode(+3.3V)	0.08	0.08	0.08	0.08	Amp/Max
Suspend Mode(+3.3V)	0.09	0.08	0.08	0.08	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	4.83 V	4.80 V	V		V		
	5.25 V	5.29 V	5.29 V	V		V		
3.3V	3.135V	3.36 V	3.36 V	V		V		
	3.465V	3.36 V	3.36 V	V		V		
12 V	11.4 V	11.69 V	11.69 V	V		V		
	12.6 V	12.80 V	12.80 V	V		V		

C. Power Connector Test: ATX Power Chang To AT Power

Test Point:

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

Power Supply :

Voltage	Actual Voltage		Result				Note
	110 V	220 V	110V		220V		
			Pass	Fail	Pass	Fail	
5 V	5.02	5.02	V		V		
12 V	12.07	12.07	V		V		

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	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type	CPU Type as below
Memory Type	NYNYA NT56V6620C0T-75/ PC133/ 64MB
O.S.	Windows NT 4.0 Workstation Ver.4.00.1381 with SP6
Primary IDE Master	Fujitsu MPC3043A/ 4.3Gb/ ATA33
Primary IDE Slave	CREATIVE CD5220E 52X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 4.03.1381.2687,4.0.32

Test Result:

OS	CPU Type	Host Bus CLK	Test Item	Result		Note
				Pass	Fail	
Windows NT 4.0	Pentium III 1G	133MHz	CPU CMOS Message	V		
			HCT System Stress	V		
	Pentium III 933	133MHz	CPU CMOS Message	V		
			HCT System Stress	V		
	Pentium III 850	100MHz	CPU CMOS Message	V		
			HCT System Stress	V		
	Celeron 800	100MHz	CPU CMOS Message	V		
			HCT System Stress	V		
	Celeron 766 [.18u]	66MHz	CPU CMOS Message	V		
			HCT System Stress	V		
	Celeron 633 [.18u]	66MHz	CPU CMOS Message	V		
			HCT System Stress	V		
	Celeron 533 [.25u]	66MHz	CPU CMOS Message	V		
			HCT System Stress	V		

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	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type	Pentium III 1G / 133
Memory Type	SDRAM Type as below
O.S.	Windows NT 4.0 Workstation Ver.4.00.1381 with SP6
Primary IDE Master	Seagate ST34520A/ 4.5GB/ ATA33
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	N/A
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 4.03.1381.2687,4.0.32

Memory List:

Item	Brand	DRAM TYPE	Total Size (MB)
1	NYNYA	NT56V6620C0T-75/ PC133	64
2	NEC	D45128841G5-A75-9JF/ PC133	256
3	NEC	D4564163G5-A10B-9JF/ PC100	64
4	HYUNDAI	HY57V1291620LTC-10S / PC100	64
5	NEC	D4564841G5-A80-9JF/ PC100	128
6	INFINEON	HYB39564800CT-75/ PC133	128
7	HITACHI	5264805DTTA60/ PC100	64
8	NEC	D4516821AG5-A10-9NF/ PC100	32
9	APACER	AM2V168A1T8/ PC100	32
10	HYUNDAI	HY57V65802/ PC100	128
11			
12			
13			
14			
15			
16			
17			
18			
19			
20			

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)	V		
DIMM 2(1)	V		
DIMM 3(1)	N/A		
DIMM 1(1)+DIMM 2(1)+DIMM 3(1)	N/A		
DIMM 1(2)	V		
DIMM 2(2)	V		
DIMM 3(2)	N/A		
DIMM 1(2)+DIMM 2(2)+DIMM 3(2)	V		
DIMM 1(3)	V		
DIMM 2(3)	V		
DIMM 3(3)	N/A		
DIMM 1(3)+DIMM 2(3)+DIMM 3(3)	V		

DIMM 1(4)	V		
DIMM 2(4)	V		
DIMM 3(4)	N/A		
DIMM 1(4)+DIMM 2(4)+DIMM 3(4)	N/A		
DIMM 1(5)	V		
DIMM 2(5)	V		
DIMM 3(5)	N/A		
DIMM 1(5)+DIMM 2(5)+DIMM 3(5)	N/A		
DIMM 1(6)	V		
DIMM 2(6)	V		
DIMM 3(6)	N/A		
DIMM 1(6)+DIMM 2(6)+DIMM 3(6)	N/A		
DIMM 1(7)	V		
DIMM 2(7)	V		
DIMM 3(7)	N/A		
DIMM 1(7)+DIMM 2(7)+DIMM 3(7)	N/A		
DIMM 1(8)	V		
DIMM 2(8)	V		
DIMM 3(8)	N/A		
DIMM 1(8)+DIMM 2(8)+DIMM 3(8)	V		
DIMM 1(9)	V		
DIMM 2(9)	V		
DIMM 3(9)	N/A		
DIMM 1(9)+DIMM 2(9)+DIMM 3(9)	N/A		
DIMM 1(10)	V		
DIMM 2(10)	V		
DIMM 3(10)	N/A		
DIMM 1(10)+DIMM 2(10)+DIMM 3(10)	N/A		
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	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 1G / 133
Memory Type	NEC D45128841G5-A75-9F/ PC133/ 256MB
O.S.	Windows 98 SE - 4.10.2222A
Primary IDE Master	Fujitsu MPC3043A/ 4.3GB/ ATA33
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	COKET84
VGA Card & Driver Version	On Board Intel (R) 82815 Graphics Controller 12-6-2000
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 3-29-2001
Game Joystick	N/A

The Result:

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

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	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 1G / 133
Memory Type	NEC D45128841G5-A75-9F/ PC133/ 256MB
O.S.	Windows 98 SE - 4.10.2222A
Primary IDE Master	IBM DTLA-307075 / 76.8GB / ATA-100
Primary IDE Slave	TEAC CD-540E / 40X
Secondary IDE Master	N/A
Secondary IDE Slave	N/A
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4-23-2001
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 3-29-2001

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]	V		V		V		PCI
LEMEL S3 TRIO64V2-DX/GX [VC-001] / 98SE Support	V		V		V		PCI
CIRRUS LOGIC 5429 [VC-008] / 98SE Support	N/A						ISA
S3 VISION968 [VC-009]	V		V		V		PCI
Adapter Card Sound Card			Install Driver		Play VCD for least 10 Min		Note
			Pass	Fail	Pass	Fail	
Creative AUDIO [SC-003]			V			V	PCI
Creative CT4170[SC-006] / 98SE support			V			V	ISA
Lemel ESS ES1868F 3D/16 PnP [SC-005] / 98SE Support			V			V	ISA
Creative SB16 PNP/CT2980 [SC-002] / 98SE support			V			V	ISA
Adapter Card SCSI Card			Install Driver		Play VCD for least 10 Min		Note
			Pass	Fail	Pass	Fail	
AHA-2940U2W [SS-004]			N/A				PCI
AHA-2940UW [SS-001] / 98SE support			V		V		PCI
AHA-1520B[SS-002] / 98SE support			V		V		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]			V		V		PCI
Genuine GM56-AMI2019 [MD-007]			V		V		PCI
Top Solution Technology 56K / V90 [MD-008]			N/A				PCI

Adapter Card LAN Card	Install Driver		Play VCD for least 10 Min		Note
	Pass	Fail	Pass	Fail	
Switch HUB Type	Accton CheetahSwitch Desktop –3005 5-Port HUB				
D-Link DFE-500TX PCI(10/100Mbps)[NW-007]	V		V		PCI
D-Link DFE-540TX PCI(10/100Mbps)[NW-012]	V		V		PCI
RTL-8139B (10/100Mbps) [NW-015] / 98SE Support	V		V		PCI
Intel SB82559 (10/100Mbps) [NW-013] / 98SE Support	N/A				PCI
Intel PILA8560 (10/100Mbps) [NW-006] / 98SE Support	V		V		ISA
3Com 3C905C-TXM (10/100Mbps) [NW-016]	V		V		PCI
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]	V		V		PCI
LEMEL MPEG DECODER [VC-016] / 98SE Support	V		V		ISA
UPMOST 1394 CardBus + FireWire 3.5 HardDisk Enclosure	V		V		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	V		V		PCI
PROMISE Ultra 100	V		V		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	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 1G / 133
Memory Type	NEC D45128841G5-A75-9F/ PC133/ 256MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	Type as below
Primary IDE Slave	Type as below
Secondary IDE Master	Type as below
Secondary IDE Slave	Type as below
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 3-29-2001

Peripheral Compatibility-HDD / CDROM Device:

HDD Device	Dectect Message		Bootting Up		Read/Write		Play VCD		Note
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
IBM DTLA-307075 / 76.8GB / ATA-100	V		V		V		V		
IBM DTLA-307045 / 46.1GB / ATA-100	V		V		V		V		
IBM DHEA-34330 / 4.3GB / ATA-33	N/A								
Maxtor 54610H6 / 46.1GB / ATA-100	N/A								
Maxtor 54098U8 / 40.9GB / ATA-66	N/A								
Maxtor 51536U3 / 15.3GB / ATA-66	V		V		V		V		
Seagate ST315320A / 15.3GB / ATA-66	N/A								
Seagate ST34520A / 4.5GB / ATA-33	V		V		V		V		
Quantum Fireball / 20.4GB / ATA-66	V		V		V		V		
Quantum Fireball / 30GB / ATA-100	V		V		V		V		
Fujitsu MPE 33072 / 30.7GB / ATA-100	N/A								
Fujitsu MPC 3043A / 4.3GB / ATA-33	V		V		V		V		
Hitach DK226A-21U / 2.6GB	N/A								
IBM DNES-309170 9GB	V		V		V		V		
Seagate ST32155W / 2.15GB	V		V		V		V		
Seagate ST34520W / 4.55GB / UW-SCSI	N/A								
DVD/CD-ROM Device	Dectect Message		Bootting Up		Read/Write		Play VCD		Note
	Pass	Fail	Pass	Fail	Pass	Fail	Pass	Fail	
NEC BCD F461B / 50X	V		V		V		V		
ASUS CD-S500A / 50X	V		V		V		V		
TEAC CD-540E / 40X	V		V		V		V		
SONY CDU4811-81 / 48X	N/A								
CREATIVE CD5220E / 52X	V		V		V		V		
CREATIVE DVD1240E / 12X / DVD-ROM	V		V		V		V		
PIONEER ATAPI DVD-A03S / 6X / DVD-ROM	N/A								
Acer DVP1640A / 16X / DVD-ROM	V		V		V		V		
MITSUMI CRMC-FX4824T /48X	N/A								
AFREEY CD-2050E / 50X	V		V		V		V		
RICOH MP7060S / 24X / SCSI-CDROM	V		V		V		V		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	IBM DTLA-307075 / 76.8GB / ATA-100	V		V		V		V		
P2	Quantum Fireball / 20.4GB / ATA-66	V		V		V		V		
S1	Fujitsu MPE 33072 / 30.7GB / ATA-100	N/A								
S2	Maxtor 54610H6 / 46.1GB /ATA-100	N/A								

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:

PCB Model & Version	X-900 Rev.A0.1 BIOS.A1.0 (07) 07/17/2001
CPU Type & FSB	Pentium III 933 / 133
Memory Type	INFINEON HYB39564800CT-75/ PC133/ 128MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	Type as below
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4-23-2001
Audio Driver & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 3-29-2001

The Result:

Test Item	Device Model	PROMISE Ultra 100		ABIT HotRod 100 Pro		Note
		ATA/66	ATA/100	ATA/66	ATA/100	
		Quantum Fireball 20.4GB	IBM DTLA-307075 76.8GB	Quantum Fireball 20.4GB	IBM DTLA-307075 76.8GB	
WinBench 99 v1.1 [DirectX 7.0 /1024X168X16 bits]						
Business Disk WinMark 99		5490	9690	4910	8970	
High-End Disk WinMark 99		13700	25000	12500	23000	
Disk Access Time (ms)		12.5	7.73	12.6	7.8	
Disk CPU Utilization (percent used)		1.78	2.24	1.98	2.18	
Disk Transfer Rate: Beginning (kB/s)		20000	37700	19600	31200	
Disk Transfer Rate: End (kB/s)		19700	37600	19700	30200	
Disk Playback/Bus Overall		5490	9690	4910	8970	
Disk Playback/HE Overall		13700	25000	12500	23000	
Avs/Express 3.4		10300	17300	5850	14400	
FrontPage 98		84500	124000	91100	121000	
MicroStation SE		19700	29400	18300	26500	
Photoshop 4.0		6740	12600	6660	12700	
Premiere 4.2		11500	26400	15100	22000	
Sound Forge 4.0		20700	33100	22700	31100	
Visual C++ 5.0		15000	30000	16000	30900	
Disk Playback/Removable Media		3840	8710	5200	9640	

F .USB Function Test Platform Information:

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 933 / 133
Memory Type	INFINEON HYB39564800CT-75/ PC133/ 128MB
Primary IDE Master	IBM DTLA-307075 76.8GB ATA100
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 04-23-2001
Audio Driver & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 03-29-2001

Device Item:

Item	Device Type	Brand	Model
1	Keyboard [KE-021]		ACK-298
2	Mouse [MS-028]	Logitech	M-BB48
3	Scanner	HP	SJ4200C
4	Printer	HP	Photo Smart P1000
5	Camera	Tekcam	P35U
6	ZIP [ZIP-002]	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	
BIOS setup test				
MS-DOS 6.22	USB Legacy Function Test [ACK-298]	V		Keyboard
Windows 98 SE 4.10.2222A	USB1(1)	V		
	USB2(2)	V		
	USB3(3)	N/A		
	USB4(4)	N/A		
	USB1(2)+ USB2(7)	V		
	USB3(5)+ USB4(6)	V		
	USB1(1)+ USB2(3)+ USB3(6)	N/A		
	USB2(2)+ USB3(4)+ USB4(5)	N/A		
	USB1(3)+ USB2(4)+ USB3(5)+ {USB4(8)+ USB(1)+ USB(2)+ USB(6)+ USB(7)}	V		Add USB HUB Switch
	Enable/Disable USB Drive	V		
OS Rebooting Test	V			
Windows 2000 Professional 5.00.2195	USB1(1)	V		
	USB2(2)	V		
	USB3(3)	N/A		
	USB4(4)	N/A		
	USB1(2)+ USB2(7)	V		
	USB3(5)+ USB4(6)	V		
	USB1(1)+ USB2(3)+ USB3(6)	N/A		
	USB2(2)+ USB3(4)+ USB4(5)	N/A		
	USB1(3)+ USB2(4)+ USB3(5)+ {USB4(8)+ USB(1)+ USB(2)+ USB(6)+ USB(7)}	V		Add USB HUB Switch
	Enable/Disable USB Drive	V		
OS Rebooting Test	V			

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	V		
	Windows 98 SE 4.10.2222A	V		
Format A/B with system transfer and boot PC from floppy	MS-DOS 6.22	V		
	Windows 98 SE 4.10.2222A	V		
SWAP FDD	MS-DOS 6.22	N/A		Note
	Windows 98 SE 4.10.2222A	N/A		

Note : Dual FDD on board, but Drive B is fail, so can not test the function.

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

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 933 / 133
Memory Type	INFINEON HYB39564800CT-75/ PC133/ 128MB
Primary IDE Master	IBM DTLA-307075 76.8GB ATA100
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4-23-2001
Audio Driver & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 3-29-2001

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:	V				19 Page
FDD Driver B:		V			19 Page
Primary IDE Master	V				17 Page
Primary IDE Slave	V				17 Page
Secondary IDE Master			V		17 Page
Secondary IDE Slave			V		17 Page
COM 1	V				27 Page
COM 2-232	V				27 Page
COM 3	V				27 Page
COM 4	V				27 Page
COM 2-422			V		36 Page
COM 2-485			V		36 Page
PS/2 MOUSE	V				36 Page
LPT 1	V				17 Page
LPT 2			V		17 Page
SIR / 115Kbps			V		36 Page
FIR / 4M bps			V		36 Page
DIO			V		21 Page
DOC	V				21 Page
Compact Flash			V		21 Page
TV-out / AV & S Output			V		36 Page
Function	Pass	Fail	Not support	Notes	Reference Page
H/W Reset	V				36 Page
Speaker			V		36 Page
Buzzer	V				36 Page
Keyboard Lock			V		36 Page
HDD LED	V				36 Page
Power LED			V		36 Page
Ext. K/B Connector			V		36 Page
ATX Power button			V		36 Page
CPU FAN Connector	V				36 Page
LAN LED	V				36 Page
Watchdog -Reset	V				07 Page
Watchdog -IRQ n			V		07 Page

I. Peripheral Compatibility- Storage Device Platform Information:

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 933 / 133
Memory Type	INFINEON HYB39564800CT-75/ PC133/ 128MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	IBM DTLA-307075 76.8GB ATA100
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4-23-2001
Audio Driver & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 3-29-2001

Device List:

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

Digital I/O Connector Test:

Input Address: _____

Output address: _____

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

J. Adapter Compatibility- Industry Control Card / PC104 / PC104 Plus Modules

Platform Information:

PCB Model & Version	N/A
CPU Type & FSB	
Memory Type	
O.S.	
Primary IDE Master	
Primary IDE Slave	
Secondary IDE Master	
Secondary IDE Slave	
Backplane	
Riser Card	
VGA Card & Driver Version	
LAN Card & Driver Version	

Device List: PC/104 Module

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

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	N/A
CPU Type & FSB	
Memory Type	
O.S.	
Primary IDE Master	
Primary IDE Slave	
Backplane	
Riser Card	
VGA Card & Driver Version	
LAN Card & Driver Version	
Audio Card & Driver Version	

Device List:

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

5 . System Integer Application Test

Test Points:

- 1.On Board I/O Function is embedded on PCB ; Adapter I/O Function is external device.
- 2.Plugging in all of the onboard 、 riser card and backplane slots to test the system integer application.

Platform Information:

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 933 / 133
Memory Type	INFINEON HYB39564800CT-75/ PC133/ 128MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	IBM DTLA-307075 76.8GB ATA100
Primary IDE Slave	TEAC CD-540E / 40X
Secondary IDE Master	N/A
Secondary IDE Slave	N/A
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4-23-2001
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 3-29-2001

System integer application Test (Burn-In 8 Hrs):

On Board I/O Function	Interface	Installation		Function		Multi Test		Note
		Pass	Fail	Pass	Fail	Pass	Fail	
DiskOnChip2000 16MB	D400	V		V		V		
Mouse [noraml]	PS2	V		V		V		
Keyboard [noraml]	PS2	V		V		V		
Mouse [noraml]	USB	V		V		V		
Keyboard [noraml]	USB	V		V		V		
Floppy 3.5inch	Flat Cable	V		V		V		
Seventeam ST-250GL	ATX	V		V		V		
Mouse [noraml]	Serial port	V		V		V		COM1
Mouse [noraml]	Serial port	V		V		V		COM2
Modem LEMEL V1433VQE	Serial port	V		V		V		COM3
Modem LEMEL V1433VQE	Serial port	V		V		V		COM4
Print HP PhotoSmart P1000	Parallel port	V		V		V		LPT1
Adapter I/O Function	PCI /ISA	Installation		Function		Multi Test		Note
		Pass	Fail	Pass	Fail	Pass	Fail	
Modem Card GVC F2000	PCI	V		V		V		

6 . BIOS Function Test

Platform Information:

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 933 / 133
Memory Type	INFINEON HYB39564800CT-75/ PC133/ 128MB
O.S.	Windows 98 SE 4.10.2222A
Primary IDE Master	IBM DTLA-307075 76.8GB ATA100
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4-23-2001
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 3-29-2001

A. Y2K Test:

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

B. Standard CMOS Setup Test:

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

C. Boot Sequence Test:

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

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

Test Item	Time	Result		Note
		Pass	Fail	
Normal Mode		V		
Doze Mode	1 Min	N/A		
Sleep (or Standby) Mode	1 Min	N/A		
Suspend Mode	1 Min		V	Note
HDD Power Down	1 Min	V		
Power Button	Delay 4 Sec	N/A		
Power Button	Instant-Off	N/A		

Note : Always delay 15-58 sec

D-2.ACPI Power Manager Test:

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	N/A		
Hot KEY	N/A		
MOUSE Left	N/A		
MOUSE Right	N/A		
Any KEY	N/A		
BUTTON ONLY	N/A		
Keyboard 98	N/A		

D-4.Wake Up Event Test:

Test Item	Result		Note
	Pass	Fail	
Wake-Up On MODEM	N/A		
Wake-Up On LAN	N/A		
Wake-Up On RTC	N/A		
Wake-Up On PCI card	N/A		

E. CMOS Backup Test:

CMOS Backup Test	Result		Note
	Pass	Fail	
	V		

F. Boot ROM Test:

Boot ROM Test	Result		Note
	Pass	Fail	
Boot ROM to Novell 4.11	N/A		HP ProCurve Switch 2224 [HP J4095A] HUB
Boot ROM to NT Server 4.0	N/A		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	
COM 1					
3F8 / IRQ4	V		V		
2F8 / IRQ3	V		V		
3E8 / IRQ4	V		V		
2E8 / IRQ3	V		V		
AUTO	V		V		
Disable	V		V		
COM 2					
3F8 / IRQ4	V		V		
2F8 / IRQ3	V		V		
3E8 / IRQ4	V		V		
2E8 / IRQ3	V		V		
AUTO	V		V		
Disable	V		V		
COM 3					
3E8 / IRQ10	V		V		
2E8 / IRQ5	V		V		
3F8 / IRQ10	V		V		
2F8 / IRQ5	V		V		
AUTO	N/A				
Disable	V		V		
COM 4					
3E8 / IRQ10	V		V		
2E8 / IRQ5	V		V		
3F8 / IRQ10	V		V		
2F8 / IRQ5	V		V		
AUTO	N/A				
Disable	V		V		

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

Test Item	BIOS Adjust		Function		Note
	Pass	Fail	Pass	Fail	
LPT 1 SPP Mode					
378/IRQ7	V		V		
278/IRQ5	V		V		
3BC/IRQ7	V		V		
Disabled	V		V		
LPT1 ECP Mode DMA1					
378/IRQ7	V		V		
278/IRQ5	V		V		
3BC/IRQ7	V		V		
Disabled	V		V		
LPT1 ECP Mode DMA3					
378/IRQ7	V		V		
278/IRQ5	V		V		
3BC/IRQ7	V		V		
Disabled	V		V		
LPT2					
278 /IRQ5(ECP+EPP/DMA3)	N/A				
3BC/IRQ7(ECP+EPP/DMA3)					
378 /IRQ7(ECP+EPP/DMA3)					

Disable					
LPT2 Mode					
ECP+EPP (278 / IRQ5)	N/A				
SPP (278 / IRQ5)					
EPP (278 / IRQ5)					
ECP (278 / IRQ5)					
LPT2 DMA Channel					
DMA3 (ECP+EPP 278 / IRQ5)	N/A				
DMA1 (ECP+EPP 278 / IRQ5)					

I. Hardware Monitor Test:

Hardware Monitor Test	Result		Note
	Pass	Fail	
Current System Tem.	V		33°C/89°F
Current CPU1 Temperature	V		46°C/114°F
Current CPU FAN1 Speed	V		4963 RPM
IN0 (V)	V		1.68 V
IN1 (V)	V		1.48 V
IN2 (V)	V		3.26 V
+5 V	V		4.86 V
+12 V	V		12.03 V
VBAT (V)	V		3.12 V
5VSB (V)	V		4.84 V

J. Supervisor / User Password Test:

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

7 . Performance Test

Platform Information:

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Type as below
Memory Type	NEC D45128841G5-A75-9JF/ PC133/ 256MB
O.S.	Windows 98 SE 4.10.2222A
Monitor Type	ViewSonic E70
Primary IDE Master	IBM DTLA-307045/ 46.1GB/ ATA-100
Primary IDE Slave	NEC BCD F541B 50X ATA33
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4-23-2001
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 3-29-2001

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 1G/133	Pentium III 933/133	Pentium III 850/100	Celeron 766/66	Unit
Testing Utility					
LandMark Speed 2.0					
CPU	6294.49	5874.89	5364.03	4792.74	MHz
FPU	20910	20910	13460.74	12027.13	MHz
VIDEO	12136	12136	11170	8856	Chr/ms
QAPLUS 5.4 – PM					
Data Transfer Rate	N/A	N/A	N/A	N/A	KB/Sec
Coretest V3.02					
Average Seek Time	4.6	4.7	4.7	4.9	ms
Track-Track Seek	1.0	1.0	1.1	1.0	ms
DTR (Buffered Read)	9456	9456	8528	7152	KB/Sec
Performance ID	68.24	67.98	62.46	53.79	

B.Operating System Environment :

Windows 98	SE 4.10.2222A
Resolution, Depth	1024x768x16bits

Test Result:

Testing Utility	CPU Type				Unit
	Pentium III 1G/133	Pentium III 933/133	Pentium III 850/100	Celeron 766/66	
WinBench 99 V1.1- (DirectX 7.0 / 1024X768X16bits)					
H.E. Graphic WinMark 99	891	842	742	5.76	MP/s
Business Graphic WinMark 99	230	226	194	157	TB/s
FPUmark	5320	4960	4530	4050	
CPUmark 99	84.6	81.1	69.3	45.9	
Final Reality V1.01—BenchMark Test - (DirectX 7.0 / 1024X768X16bits)					
2D image	7.42	7.24	5.63	4.87	
3D	5.87	5.63	5.29	4.05	
Bus transfer	8.41	8.19	6.20	4.91	
Overall	6.72	6.50	5.53	4.43	
3D Winbench 2000 V1.0 - (DirectX 7.0 / 1024X768X16bits) [Least 120MB Memory In O.S. WIN98 & 2K Support]					
3D Winbench 2000 Processor Test	1.93	1.82	1.56	1.06	
Content Creation Winstone 2000 V1.0 - (DirectX 7.0 / 1024X768X16bits)					
C.C. Winstone 2000	29.7	29.3	26.4	22	

C.Operating System Environment :

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

Test Result:

Testing Utility	CPU Type				Unit
	Pentium III 1G/133	Pentium III 933/133	Pentium III 850/100	Celeron 766/66	
WinStone 99 V1.1					
HighEnd WinStone 99	42	41.1	36.6	29.3	
Business Winstone 99	37.3	37.5	34.5	28.6	

8 . O.S. Compatibility Test

A. O.S. Compatibility -Linux RedHat7.0

Platform Information:

PCB Model & Version	N/A
CPU Type & FSB	
Memory Type	
Kernel Version	
Monitor Type	
Primary IDE Master	
Primary IDE Slave	
Backplane	
Riser Card	
VGA Card & Driver Version	
LAN Card & Driver Version	
Audio Card & Driver Version	

Installation Software:

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

Test Result:

Test Item	Pass	Fail	Note
Installation to HDD			
Install from CD-ROM			
Network Function Test			
LAN Function Test			Connection Network
Ping IP Address			Ping
Telnet IP Address			Telnet
Base Function			
Reboot			init 6
Shutdown			init 0
Virtual Consoles			Ctrl+Alt+F[1-7]
Xf86config Setup			
Mouse setup			mouseconfig
VGA setup			Xconfigurator
LAN Setup			netconf / ifconfig
Keyboard Setup			kbdconfig
X Windows Application			
Xclock			
X-Window			startx
Audio / MIC Function Test			
Play Audio Function Test			Play Audio Test
MIC Function Test			Microphone Test
Command Test On Text Mode			
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	N/A
CPU Type & FSB	
Memory Type	
Switch HUB Type	
Primary IDE Master	
Primary IDE Slave	
Backplane	
Riser Card	
VGA Card & Driver Version	
LAN Card & Driver Version	

The Result:

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

Client Function Testing			
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	N/A
CPU Type & FSB	
Memory Type	
Primary IDE Master	
Primary IDE Slave	
Backplane	
HP Switch HUB	
Riser Card	
VGA Card & Driver Version	
LAN Card & Driver Version	

The Result:

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

Client Application Function Testing			
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	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 933 / 133
Memory Type	NEC D45128841G5-A75-9JF/ PC133/ 256MB
Monitor Type	ViewSonic E70
Primary IDE Master	IBM DTLA-307075 / 76.8GB / ATA-100
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 05-08-2001
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 01-03-2001
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 04-21-2000

Installation Software:

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

VGA Driver Testing:

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

Test Results:

Test Item	Pass	Fail	Note
Installation From Storage Device			
Install to IDE HDD	V		
DOC Device – Read / Write			
DOC 16 MB / D400 Address	V		
DOC 16 MB / D800 Address	V		
DOC 16 MB / DC00 Address	V		
Boot [F8 Start up Boot Up Menu] Item Test			
Normal	V		
Logged (\BOOTLOG.TXT)	V		
Safe Mode	V		
Step By Step Confirmation	V		
Command Prompt Only	V		
Safe Mode Command Prompt only	V		
Previous version of MS-DOS	V		Before execute Fix95B Program
Function Test			
Serial Mouse	V		
FDD Format/Copy/Read/Write	V		
PS/2 Mouse	V		
System Clock	V		
Keyboard Function Test			
Alt+F4 [Quit a Program]	V		
Ctrl+Esc [Display the Start Menu]	V		
Alt+Tab [Switch To Last Windows]	V		
Ctrl+Alt+Del [Close Program]	V		
F8 Start up Boot Up Menu	V		
F4 Boot Up from Previous	V		Before execute Fix95B Program
Shutdown – Start Menu			
Suspend	V		
Shutdown the Computer	V		
Shutdown Restart	V		
Shutdown to MS-DOS Mode	V		
Close all Prog. & Login Other User	V		

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

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 1G / 133
Memory Type	NEC D45128841G5-A75-9JF/ PC133/ 256MB
Monitor Type	ViewSonic E70
Primary IDE Master	IBM DTLA-307075 / 76.8GB / ATA-100
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 12-6-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4-23-2001
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 03-29-2001

Installation Software:

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

VGA Driver Testing:

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

Test Results:

Test Item	Pass	Fail	Note
Installation From Storage Device			
Install to IDE HDD	V		
DOC Device – Read / Write			
DOC 16 MB / D400 Address	V		
DOC 16 MB / D800 Address	V		
DOC 16 MB / DC00 Address	V		
Boot [F8 – Windows 98 Start up Menu] Item Test			
Normal	V		
Logged (\BOOTLOG.TXT)	V		
Safe Mode	V		
Step By Step Confirmation	V		
Command Prompt Only	V		
Safe Mode Command Prompt Only	V		
Previous version of MS-DOS	V		
Function Test			
Serial Mouse	V		
FDD Format/Copy/Read/Write	V		
PS/2 Mouse	V		
USB Mouse/ Keyboard	V		
IR Mode	N/A		
System Clock	V		
Keyboard Function Test			
Alt+F4 [Quit a Program]	V		
Ctrl+Esc [Display the Start Menu]	V		
Alt+Tab [Switch To Last Windows]	V		
Ctrl+Alt+Del [Close Program]	V		
F8 Start up Boot Up Menu	V		
F4 Boot Up from Previous – Text Mode	V		
Shutdown – Start Menu			
Standby	V		
Shutdown the Computer	V		
Shutdown Restart	V		
Shutdown to MS-DOS Mode	V		
Close all Prog. & Login Other User	V		

F. O.S. Compatibility-Windows ME

Platform Information:

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 1G / 133
Memory Type	NEC D45128841G5-A75-9JF/ PC133/ 256MB
Monitor Type	ViewSonic E70
Primary IDE Master	IBM DTLA-307075 / 76.8GB / ATA-100
Primary IDE Slave	TEAC CD-540E / 40X
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 11-27-2001
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 06-08-2000
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 06-08-2000

Installation Software:

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

VGA Driver Testing:

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

Test Results:

Test Item	Pass	Fail	Note
Installation From Storage Device			
Install to IDE HDD	V		
DOC Device – Read / Write			
DOC 16 MB / D400 Address	V		
DOC 16 MB / D800 Address	V		
DOC 16 MB / DC00 Address	V		
Boot [F8 Start up Boot Up Menu] Item Test			
Normal	V		
Logged (\BOOTLOG.TXT)	V		
Safe Mode	V		
Step By Step	V		
Function Test			
Serial Mouse	V		
FDD Format/Copy/Read/Write	V		
PS/2 Mouse	V		
USB Mouse/ Keyboard	V		
IR Mode	N/A		
System Clock	V		
Keyboard Function Test			
Alt+F4 [Quit a Program]	V		
Ctrl+Esc [Display the Start Menu]	V		
Alt+Tab [Switch To Last Windows]	V		
Ctrl+Alt+Del [Close Program]	V		
F8 Start up Boot Up Menu	V		
F4 Boot Up from Previous	N/A		
Shutdown – Start Menu			
Standby	V		
Shutdown the Computer	V		
Shutdown Restart	V		
Shutdown to MS-DOS Mode	N/A		
Close all Prog. & Login Other User	A		

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

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 933 / 133
Memory Type	NANYA NT56V6620C0T-75/ PC133/ 64MB
Monitor Type	ViewSonic E70
Primary IDE Master	Fujitsu MPC3043AT/ 4.3GB/ ATA33
Primary IDE Slave	CREATIVE CD5220E 52X
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 4.03.1381.2687,4.0.32
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 4.00.5000
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 4.03.00.3004

Installation Software:

Installation(With SP6)	Result		Note
	Pass	Fail	
WINDOWS NT4.0 Workstation English	V		
WINDOWS NT4.0 Server English	V		
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	V		V		256C
	16bits	V		V		65536C
	24bits	V		V		16777216C
	32bits					
800X600	16					
	256	V	V	V		256C
	16bits	V	V	V		65536C
	24bits	V	V	V		16777216C
	32bits					
1024X768	16					
	256	V	V	V		256C
	16bits	V	V	V		65536C
	24bits	V	V	V		16777216C
	32bits					
1280X1024	16					
	256	V	V	V		256C
	16bits	V	V	V		65536C
	24bits	V	V	V		16777216C
	32bits					
1600X1200	16					
	256	V	V	V		256C
	16bits					65536C
	24bits					16777216C
	32bits					

Test Results:

Test Item	Pass	Fail	Note
Installation From CD-ROM			
Install to IDE HDD	V		
DOC Device – Read / Write			
DOC 16 MB / D400 Address	V		
DOC 16 MB / D800 Address	V		
DOC 16 MB / DC00 Address	V		
Boot			
Boot to Windows NT	V		
Boot to MS-DOS	V		
Last known good configuration	V		
Original Configuration	V		
Shutdown	V		
Shutdown & Restart	V		
CPU/Memory/File System			
Memory size less than 64MB	V		
Memory size Larger than 64MB	V		
Virtual memory	V		
System tasking settings	V		
FAT	V		
NTFS	V		
Network	V		
System clock	V		
Task switching	V		
Function Test			
Serial Mouse	V		
FDD Format/Copy/Read/Write	V		
PS/2 Mouse	V		
System Clock	V		
Keyboard Function Test			
CapLock,NumLock,ScrLock	V		
Ctrl+Alt+Del	V		
Ctrl+Esc,Alt+Tab/Esc/Space	V		
Alt+Tab,Alt+Esc,Alt+Space	V		
Ctrl+Alt+Pause/Print Screen	V		
COM Port			
Serial Mouse	V		
Security/Audit/Control			
User manager	V		
Disk administrator	V		
Performance monitor	V		
User profile editor	V		
Event Viewer	V		
Windows NT Diagnostics	V		

Network Function Testing			
Test Item	Pass	Fail	Note
Transceiver	V		
Receiver	V		
CRC error	V		
Collision back-off generation	V		
Auto-negotiation	V		
Network Operation System Function Testing			
Test Item	Pass	Fail	Note
Windows NT 4.0	V		
Network Testing			
Test Item	Pass	Fail	Note
Connect to Neighborhood	V		
Workstation Application Function Testing			
Test Item	Pass	Fail	Note
Windows 98 for NetBEUI	V		
Windows 98 for TCP/IP	V		
Windows NT 4.0 for NetBEUI	V		
Windows NT 4.0 for TCP/IP	V		
Transfer Data Between SRV And WK	V		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	N/A
CPU Type & FSB	
Memory Type	
Monitor Type	
Primary IDE Master	
Primary IDE Slave	
Backplane	
Riser Card	
VGA Card & Driver Version	
LAN Card & Driver Version	
Audio Card & Driver Version	

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	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 850 / 100
Memory Type	HYUNDAI HY57V1291620LTC-10S/ PC100/ 64MB
Monitor Type	ViewSonic E70
Primary IDE Master	Seagate ST34520A/ 4.5GB/ ATA33
Primary IDE Slave	NEC BCD F541B 50x
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller 11-27-2000
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC 10-19-1999
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller 03-27-2001

Installation Software:

Installation(With SP6)	Result		Note
	Pass	Fail	
WINDOWS 2000 Professional English	V		
WINDOWS 2000 Server English	V		
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	V	V	V		
	16bits	V	V	V		
	24bits	V	V	V		
	32bits					
800X600	16					
	256	V	V	V		
	16bits	V	V	V		
	24bits	V	V	V		
	32bits					
1024X768	16					
	256	V	V	V		
	16bits	V	V	V		
	24bits	V	V	V		
	32bits					
1280X1024	16					
	256	V	V	V		
	16bits	V	V	V		
	24bits	V	V	V		
	32bits					
1600X1200	16					
	256	V	V	V		
	16bits					
	24bits					
	32bits					

Test Results:

Test Item	Pass	Fail	Note
Installation From Storage Device			
Install to IDE HDD	V		
DOC Device – Read / Write			
DOC 16 MB / D400 Address		V	Note ¹
DOC 16 MB / D800 Address		V	
DOC 16 MB / DC00 Address		V	
Boot - Windows 2000 Advanced Options Menu			
Safe Mode	V		
Safe Mode with Networking	V		
Safe Mode with Command Prompt	V		
Enable Boot Logging	V		
Enable VGA Mode	V		
Last known Good Configuration	V		
Directory Services Restore Mode (windows 2000 domain controllers only)	V		
Debugging Mode	V		
Boot Normally	V		
Return to OS Choices Menu	V		
Function Test			
Serial Mouse	V		
FDD Format/Copy/Read/Write	V		
PS/2 Mouse	V		
USB Mouse/ Keyboard	V		
IR Mode	N/A		
System Clock	V		
Keyboard Function Test			
Alt+F4 [Quit a Program]	V		
Ctrl+Esc [Display the Start Menu]	V		
Alt+Tab [Switch To Last Windows]	V		
Alt+Esc Switch Windows	V		
Ctrl+Alt+Del Windows Security Window	V		
F8 Start up Windows 2000 Advanced Options Menu Menu	V		
Shutdown – Start Menu			
Log off User	V		
Shut down		V	Note ²
Restart	V		

Note¹ : DOC can not be use under Windows 2000P

Note² : Can not shutdown under the environment of Windows 2000P

J. O.S. Compatibility-DOS and DOS Utility Compatibility Testing Platform Information:

PCB Model & Version	X-900 Rev.A0.1 BIOB.A1.0 (10) 07/20/2001
CPU Type & FSB	Pentium III 1G / 133
Memory Type	NEC D45128841G5-A75-9JF/ PC133/ 256MB
Primary IDE Master	ViewSonic E70
Primary IDE Slave	IBM DTLA-307075 / 76.8GB / ATA-100
Backplane	N/A
Riser Card	COTEK84
VGA Card & Driver Version	On Board Intel (R) 82815E Graphics Controller
LAN Card & Driver Version	On Board Realtek RTL8139 Family PCI Fast Ethernet NIC
Audio Card & Driver Version	On Board Avance AC'97 Audio Intel (R) Audio Controller

Test Results:

Test Item	Result		Note
	Pass	Fail	
Installation MS-DOS6.22 From FDD			
Install to IDE HDD	V		
DOC Device – Read / Write			
DOC 16 MB / D400 Address	V		
DOC 16 MB / D800 Address	V		
DOC 16 MB / DC00 Address	V		
DOS Commander			
MSD.COM	V		
EDIT.COM	V		
EMM386.EXE	V		
HIMEN.SYS	V		