

# **FIC FS35 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT**

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**Product Version:**     *V 1.1*

**BIOS Version:**        **IDB44**

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**Revision:**              **1.05**

Supervisor	Tester



### Revision History

Document Release	Date	Change Item	ECN
Revision 1.00	10/30/2000	Initial Release.	
Revision 1.01	2/06/2001	BIOS update version to IDB42 Add support Intel Celeron 800MHz CPU.	
Revision 1.02	5/17/2001	Add support Intel Celeron 850MHz.(D-Step) Add support Intel Coppermine 1GHz.(D-Step)	
Revision 1.03	5/21/2001	BIOS update to IDB43 Add support Intel Celeron 900MHz.(D-Step)	
Revision 1.04	9/13/2001	Add support PCI Audio Card	
Revision 1.05	5/02/2002	BIOS update to IDB44 Add support Intel Celeron 1.0/1.1GHz CPU.	M00802-E-034

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## 1. Introduction

FIC's motherboards undergo a comprehensive suite of stringent software and hardware compatibility tests to ensure that they can not only run a complete range of operating systems and software packages, but that they can also be installed with a full selection of add-on cards and peripheral devices, such as AGP,VGA, SCSI, and network adapters as well as HDDs, FDDs, CD-ROM Drives and Fax/Modems. A board is deemed to have passed the compatibility testing suite when it has met the following criteria:

- All application software available for IBM compatible products works properly.
- All common internal and external hardware available to the IBM AT-Bus and PCI compatible systems functions properly.
- All hardware and software can be installed according to the instructions provided to the user.
- All legal configurations (IRQ , I/O addresses, DMA levels ) function properly.
- All applications have been tested with and without drivers provided on the support disk.
- All operating systems have been installed and tested with each processor, with and without the most critical mode selected by setup.

## 2. Mainboard Features

**Model Name** : FS35 PCB Rev 1.1  
**Product Name** : Intel 815E Based Mainboard  
**System BIOS** : Award BIOS Version IDB44  
**PCI IDE** : Internal PCI Mastre dual IDE  
**I/O** : WinBond W83627HF-AW

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## 3. Mainboard CPU Supports:

### Intel :

Intel Processors	Bus	Package	Status
Celeron 533MHz	66	FC-PGA	Pass
Celeron 566MHz	66	FC-PGA	Pass
Celeron 600MHz	66	FC-PGA	Pass
Celeron 633MHz	66	FC-PGA	Pass
Celeron 667MHz	66	FC-PGA	Pass
Celeron 700MHz	66	FC-PGA	Pass
Celeron 766MHz	66	FC-PGA	Pass
Celeron 800MHz	100	FC-PGA	Pass
Celeron 850MHz	100	FC-PGA	Pass
Celeron 900MHz	100	FC-PGA	Pass
Celeron 1.0GHz	100	FC-PGA	Pass
Celeron 1.1GHz	100	FC-PGA	Pass
Pentium III 500MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 533MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 550MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 600MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 600MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 667MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 700MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 733MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 750MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 800MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 850MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 866MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 933MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 1GHz (Coppermine)	133	FC-PGA	Pass

### Cyrix :

Cyrix Processors	Bus	Package	Status
Cyrix III 533MHz (Samuel)	133	FPGA	Pass
Cyrix III 550MHz (Samuel)	100	FPGA	Pass

Cyrix III 600MHz (Samuel)	100	FPGA	Pass
Cyrix III 600MHz (Samuel)	133	FPGA	Pass

## 4 System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	Intel 815E (82815+82801BA)
System Cache	128K/256K Pipeline Burst SRAM Built-in CPU
System Display	Intel 82815 Graphics and AGP Memory Controller Hub (GMCH)
System Memory	Maximum : 512MB SDRAM 168 pins single RAS and Double RAS DIMM RAM Module
System Slots	1 AGP and 3 PCI and 1 CNR slots
Audio	Intel 815 AC'97 Audio with AD1885 codec
LPC	WinBond W83627HF-AW Support Normal,EPP,ECP mode and IR interface

### 4.1 Main Functionality :

Num.	M/B function	Result
1	ACPI Ready (under Win 98 SE/ME/Win 2000)	PASS
2	Wake On LAN / Wake On Ring	PASS
3	RTC Alarm Function	PASS
4	H/W Monitoring (+/-12V,+/-5V,+5VR)	PASS
5	Logo Genie	PASS
6	BIOS Easy Kit	PASS
7	BIOS Flash Protect (Guardian feature)	PASS
8	Ultra ATA-33/66/100 Enhanced IDE Interface	PASS
9	CNR slot	PASS
10	USB Function	PASS
11	Power Failure feature	PASS
12	Year 2000 Compliance	PASS

### 4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	Intel ATA Storage driver for Win 9x/NT/ME/2000	6.03	PASS
2	Intel 815E graphics driver for Win 9x/NT/ME/2000	6.0	PASS
3	Intel Chipset Software Install Utility	2.3	PASS
4	AD1885 codec driver for Win 9x/ME/2000	5.12.01.3005	PASS
5	AD1885 codec driver for Win NT	4.02.00.0035	PASS
6	Award BIOS Flash ROM Utilities	7.79	PASS





## 5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPK	Open	Pass
Power LED	PW_LED	Open	Pass
Safe Mode	Safe_Mode	Open	Pass
IDE LED Connector	IDE_LED	Open	Pass
Reset Switch	RST	Open	Pass
Remote Power Switch	RPW_SW	Open	Pass
CPU FAN Connector	CPU_FAN	Open	Pass
Chassis FAN Connector	SYS_FAN	Open	Pass
Clear CMOS	SW1-1	Off	Pass
Clear Password	SW1-2	Off	Pass
IR interface	IR	Open	Pass

## 6. Stability Test

### 6.1 CPU Over Clock Test: (1days)

System Configuration	
<b>CPU</b> : Intel P-III 866	<b>FDD</b> : NEC FD1231T 1.44MB
<b>Cache Memory</b> : 256 K	<b>Audio</b> : Onboard AD1885 AC'97 Audio
<b>Memory</b> : SDRAM 128MB (64MB x 2)	<b>Mouse</b> : Microsoft PS/2 mouse
<b>HDD (ATA/66)</b> : IBM DJNA-352030 20GB	<b>PowerSupply</b> : SEC TEC SI-C145M2 145W
<b>VGA</b> : Intel 815 onboard	<b>O.S. Environment:</b> Windows 98 SE
<b>DVD-ROM</b> : Creative DVD8400E 8X	

NO.	Over clock level		Test Result				
	FSB	CPU ID	Cool boot	Install OS	PM	Winstone 99	3D Winbench
1	140MHz	910MHz	Pass	Pass	Pass	Pass	Pass

### 6.2 Full Loading Test: (1days)

System Configuration	
<b>CPU</b> : Intel P-III 866	<b>PCI 1</b> : 3Com 3C905B LAN card
<b>Cache Memory</b> : 256 K	<b>PCI 2</b> : Accton EN1207D LAN card
<b>Memory</b> : SDRAM 128MB (64MB x 2)	<b>PCI 3</b> : Intel 82559 LAN card
<b>HDD 1</b> : IBM DJNA-352030 20GB	<b>Audio</b> : Onboard AD1885 AC'97 Audio
<b>HDD2</b> : Quantum Fireball 8.4GB	<b>Mouse</b> : Microsoft PS/2 mouse
<b>DVD-ROM1</b> : Pioneer DVD-105S 16X	<b>PowerSupply</b> : SEC TEC SI-C145M2 145W
<b>DVD-ROM2</b> : Creative DVD8400E 8X	<b>O.S. Environment:</b> Windows 2000
<b>VGA</b> : Intel 815 onboard	
<b>FDD</b> : NEC FD1231T 1.44MB	

Test Result						
Cool boot	BIOS detect	Install OS	All devices Driver install	PM	Winstone 99	3D Winbench 99
Pass	Pass	Pass	Pass	Pass	Pass	Pass

### 6.3 PCB Cool Boot Test: (1days)

System Configuration	
<b>CPU</b> : Intel P-III 850	<b>FDD</b> : NEC FD1231T 1.44MB
<b>Cache Memory</b> : 256 K	<b>PowerSupply</b> : Delta DPS-145PB 145W SFX
<b>Memory</b> : SDRAM 384MB (128MB x 3)	
<b>VGA</b> : Intel 815 onboard	

Test Result	
Cool Boot (over 1500 times)	Pass

## 7. Field (Stress) Test: Dynamic Burn-in Tests

Software Name	Duration	Result
CC Winstone 99 Under WIN98 SE	24hr.	<i>Pass</i>
Test Configurations for Win 98	Intel Pentium III 800MHz Quamtum Fireball LM Ultra DMA66 20.5GB HDD KingStone 256MB SDRAM Memory.(IBM) Intel 815 Onboard AGP	
CC Winstone 2000 Under WIN2000	24hr.	<i>Pass</i>
Test Configurations for Win 2000	Intel Pentium III 600MHz Maxtor 90871U2 Ultra DMA66 8.7GB HDD SIMONS 64MB SDRAM Memory.(NEC) Intel 815 Onboard AGP	
Winstone 99 Under Windows NT 4.0	24hr.	<i>Pass</i>
Test Configurations for Windows NT 4.0	Intel Pentium III 866MHz Fujitsu MPE3102AT Ultra DMA66 10.2GB HDD Apacer 64MB SDRAM Memory. Intel 815 Onboard AGP	

## 8. Hardware Compatibility Test Suite

### 8.1 Memory

#### Test Configuration:

**OS Ver** ☒ Win 2000 Ver: 5.00.2195  
**CPU** Intel Pentium III 850MHz (Bus clock 100MHz) ☒ Intel  
 Intel Pentium III 1GHz (Bus clock 133MHz)  
**HDD** Fujitsu MPE3102AH 10.2GB IDE ☐ PIO4 ☒ UDMA/66  
**Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**VGA** Intel 815 ☒ Onboard ☐ AGP 4X  
**CD-ROM** Acer DVP 1640A 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**Sound** AD1885 AC'97 **PCI Slot:** ☐ On board  
**Mouse** Microsoft IntelliMouse PS/2 Mouse **COM** ☒ PS/2

The following SDRAM module test Winstone 99 V1.3 under Windows 2000 with BIOS set up default value and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

#### 8.1.1 SDRAM DIMM Module (PC100)

Vender	IC Part No.	ECC	Size	Side	Module No.
KingSton	TC59SM716FT-80	No	64MB	S	KGM100X64C2/64
	PTT3S128081T-8	No	128MB	S	DT100128M8-T01151
SIMONS	D45128163G5-A10B-9JF	No	64MB	S	
SIEMENS	HYB39S64160AT-8	No	32MB	S	HYS64V4200GU-8
	HYB39S64800AT-8	No	64MB	S	HYS64V8200GU-8
	HYB39S64800AT-8	Yes	128MB	D	HYS72V16220GU-8
	HYB39S64800BT-8	No	64MB	S	HYS64V8200GU-8
	HYB39S64800BT-8	Yes	128MB	D	HYS72V16220GU-8
	HYB39S64800CT-8	No	64MB	S	HYS64V8300GU-8-C
	HYB39S64800CT-8	Yes	128MB	D	HYS72V16220GU-8-C
SEC	KM48S2020CT-GH	Yes	32MB	D	BUFFALO VSJ-D32M
	KM48S8030BT-GH	Yes	64MB	S	BUFFALO VSJ-ES64M2
	KM48S8030BT-GH	No	128MB	D	BUFFALO VSJ-D128M2
	KM48S16030T-GL	Yes	256MB	D	
KingMAX	KSV884T4A1A-08A	No	64MB	S	MPC643S-882
	KSV884T4A1A-08A	No	128MB	D	MPCA83S-882
Apacer	GM72V66841XT7J	No	64MB	S	71.63320.065 (HYUNDAI)
	GM72V66841ET7K	No	128MB	D	71.73323.065 (HYUNDAI)
Winbond	W981216AH-75	No	64MB	S	VSJ-S64M2
NEC	D4564841G5-A80-9JF	Yes	128MB	D	BUFFALO VSJ-ED128M2
Hyundia	HY57V658020B-10P	No	128MB	D	VSJ-D128M2

### 8.1.2 SDRAM DIMM Module (PC133)

Vender	IC Part No.	ECC	Size	Side	Module No.
SIEMENS	HYB39S64800BT-7.5	No	64MB	S	HYS64V8300GU-7.5
	HYB39S64800BT-7.5	No	128MB	D	HYS64V16220GU-7.5
	HYB39S256800BT-7.5	Yes	512MB	D	HYS72V64220GU-7.5
MICRON	MT48LC8M8A2-75B	No	64MB	S	MT8LSDT864AG-133B4
	MT48LC8M8A2-75B	Yes	64MB	S	MT9LSDT872AG-133B4
	MT48LC8M8A2-75B	No	128MB	D	MT16LSDT1664AG-133B4
	MT48LC8M8A2-75B	Yes	128MB	D	MT18LSDT1672AG-133B4
Hyundai	HY57V658020B TC-75	No	64MB	S	HYM7V63801BTFG-75
	HY57V658020B TC-75	No	128MB	D	HYM7V631601BTFG-75
	HY57V658020B TC-75	Yes	128MB	D	HYM7V73A1601BTFG-75
NEC	D4564841G5-A75-9JF	No	64MB	S	MC-458CB647LF-A75
Winbond	W981208AH-75	No	128MB	S	VS133-128M
KingMAX	KSV884T4A1A-07	No	64MB	S	MPG643S-883
	KSV884T4A1A-07	No	128MB	D	MPGA83S-883
	KSV884T4A1A-06	No	128MB	D	MPGA83S-883
Hitachi	5264805FTT75	No	64MB	S	VS133-64M
	5264805FTT75	No	128MB	D	VS133-128M
Mitsubishi	M2V64S30BTP	No	64MB	S	MH8S64BALD-6
Apacer	HYB39S64800BT-7.5	No	64MB	S	71.63350.114
	AM2V648C2T75	No	64MB	S	71.63350.034
	HYB39S64800BT-7.5	No	128MB	D	71.73350.114
	GM72V66841XT75	No	128MB	D	71.73350.064
	AM2V648C2T75	No	128MB	D	71.73350.034
Buffalo	GM72V66841ET7K	No	64MB	S	VS133-64MB (Hyundai)
	GM72V66841ET7K	No	128MB	D	VS133-128M (Hyundai)
	K4S6408320-TC1H	No	128MB	D	VS133-128M (SEC)
V-TEC	GM72V66841ET75	No	64MB	S	
KingSton	TC59SM708FT-75	No	128MB	S	KGM133X64C3/128
	HYB39S64800BT-7.5	No	64MB	S	KVR-PC133/64 (8X64)
	HYB39S64800BT-7.5	No	128MB	D	KVR-PC133/128
	0312804CT3A-75A	No	256MB	D	KVR-PC133/256 (32X64)
SIMONS	D45128841G5-A80-9JF	No	128MB	S	

## 8.2 Add-on Cards

### 8.2.1 Display Adapter Products

#### Test Configuration:

**OS Ver** ☒ Win 98 SE Ver: 4.10.222A  
**CPU** Intel Pentium III 866MHz ☒ Intel  
**Memory** KingMAX 128MB(KSV884T4A1A-06) **Total:** 256 MB ☐ PC100 ☒ PC133  
**HDD** IBM DTLA-307075 76.8GB ☐ UDMA/66 ☒ UDMA/100  
**Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** Panasonic SR-8584B 6X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**Sound** AD1885 AC'97 **PCI Slot:**     ☒ On board  
**Mouse** Logitech MouseMan Mouse ☐ COM ☒ PS/2

The following PCI/AGP VGA cards test 3D WinBench 2000 /3Dmark 2000/Final Reality 1.01 under Windows 98 SE with their respective VGA drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

#### 8.2.1.1 2X AGP Display Adapter Products

Vendor	Model Name	Product Description	Driver version
ATI	Rage pro Turbo	XPERT @Play 98	4.12.2632
	Rage 128GL	Rage Fury	4.12.6281
	Rage pro Turbo	XPERT 98	4.12.2632
	Rage 128GL	All-In-Wonder 128	4.12.6281
	Rage 128GL	XPERT 128	4.12.6281
	Rage 128VR	XPERT 2000	4.12.6281
	Rage XL	Rage XL	4.12.2632
ASUS	Riva TNT	AGP-V3400TNT	4.12.01.0618
Matrox	MGA-G200	Millennium G200	4.12.01.2640
	MGA-G200A	Millennium G200 LE	4.12.01.2640
	MGA-G400	Millennium G400 DH	4.12.01.1640
Diamond	Voodoo Banshee	Monster Fusion	4.10.01.0213
Creative	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra	4.12.01.2303
3D labs	Glint R3	Oxygen VX1	4.12.01.2107
ELSA	3Dlabs Permedia II	Gloria Synergy (UP802PII)	4.10.01.0203
	Riva TNT	ERAZOR II	4.12.01.0206
	Voodoo Banshee	Victory II	4.11.01.0300
Cardex	3D Labs Permedia 3	Cardexpert P3	4.12.01.2107
Leadtek	Riva TNT2 Ultra	Winfast 3D 320II Ultra	4.11.01.0240
	SiS 300	Winfast VR300	4.12.01.1030
3dfx	Voodoo 3 2000	Voodoo 3 2000	4.12.01.1225
	Voodoo 3 3000	Voodoo 3 3000	4.12.01.1225
	Voodoo 3 3500	Voodoo 3 3500 TV	4.12.01.1225
	Voodoo 5 5500	Voodoo 3 5500	4.12.01.0584

### 8.2.1.2 4X AGP Display Adapter Products

Vendor	Model Name	Product Description	Driver version
Diamond	Riva TNT2 Ultra	Viper V770 Ultra	4.12.01.0368
Leadtek	Riva TNT2 M64	WinFast 3D S325	4.11.01.0240
	GeForce256	Winfast GeForce 256	4.12.01.0522
	GeForce256 GTS	Winfast GeForce 2 GTS	4.12.01.0522
	GeForce2 MX	Winfast GeForce2 MX	4.12.01.0522
	Riva TNT2 Pro	WinFast 3D S320 II Pro	4.11.01.0240
Matrox	MGA-G400	Millennium G400 SH	4.12.01.1640
	MGA-G400	Millennium G400 MAX	4.12.01.1640
ATI	Rage 128 Pro	Rage Fury Pro	4.12.6281
	Rage 128 Pro	XPert 2000 Pro	4.12.6281
	Rage 128 Pro	All-In-Wonder 128 Pro	4.12.6281
Hercules	Riva GeForce 256	3D Prophet DDR-DVI	4.12.01.0522
Cardex	Riva TNT2 Vanta	Cardexpert TNT2 Vanta	4.12.01.0618
	GeForce2 MX	GeForce2 MX	4.12.01.0618
ASUS	Riva TNT2 Pro	AGP-V3800 Pro	4.12.01.0618
	Riva GeForce 256	AGP-V6600	4.12.01.0618
	GeForce2 MX	AGP-V7100	4.12.01.0618
	Riva GeForce2 GTS	AGP-V7700	4.12.01.0618
	GeForce256 DDR	AGP-V6800	4.12.01.0618
Creative	Riva TNT2 M64	Riva TNT2 Value	4.12.01.2303
	Riva Geforce 256	3D Blaster GeForce256	4.12.01.2303
	Riva Geforce 256	3D Blaster GeForce Pro	4.12.01.2303
	GeForce2 GTS	3D Blaster Geforce2 GTS	4.12.01.2303
ELSA	Riva TNT2	ERAZOR III	4.12.01.0206
	Riva TNT2	Synergy II	4.12.01.0206
	Savage 4	Winner II	4.11.01.0310
	Riva TNT2 M64	ERAZOR III LT	4.12.01.0206
	Riva TNT2 Vanta	ERAZOR III LT-16	4.12.01.0206
	Riva TNT2 Pro	ERAZOR III Pro	4.12.01.0206
	Riva Geforce2 GTS	GLADIAC	4.12.01.0206
	Riva GeForce 256	ERAZOR X	4.12.01.0206
	Riva GeForce 256 DDR	ERAZOR X <sup>2</sup>	4.12.01.0206
	GeForce2 MX	GLADIAC MX	4.12.01.0206

### 8.2.1.3 PCI Display Adapter Products

Vendor	VGA Chip	Product Description
ATI	ATI Rage II	ATI Rage II 3D
	ATI Mach64	ATI Mach64 VT
ELSA	S3 Virge/VX	Winner 3000L 3D
Creative	S3 Savage 4	3D Blaster Savage 4
Diamond	S3 964	Stealth 64 Video
Cardex	SiS 6326	Cardexpert 6326
ASUS	Riva TNT2	PCI-V3800
Matrox	MGA-1064SG	Mystique 4MB SGRAM

### 8.2.2 SCSI Adapter Products

#### Test Configuration:

**OS Ver** ☒ Win 98 SE Ver: 4.10.2222A   
☒ Win NT Ver: 4.0 + SP6   
☒ Win 2000 Ver: 5.00.2195   
**CPU** Intel Pentium III 866MHz ☒ Intel   
**Memory** Micron 64MB (MT48LC8M8A2-75B) Total: 128 MB ☐ PC100 ☒ PC133   
**VGA** Intel 815 ☒ Onboard ☐ AGP 4X   
**HDD** IBM DDYS-T36950 36GB SCSI HDD ☐ Ultra II SCSI ☒ Ultra Wide   
**CD-ROM** TEAC CD-R56S 32X SCSI CD-ROM ☒ Ultra SCSI ☐ Ultra Wide   
**Sound** AD1885 AC'97 ☐ PCI\_Slot:     ☒ On board   
**Mouse** Logitech MouseMan Mouse ☐ COM ☒ PS/2

The following PCI SCSI cards run Winstone 99 under Windows 98/NT/2000 with their respective SCSI drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

Vendor	Model Name	Product Description	Bus I/F
Adaptec	AHA-2940UW	Adaptec AHA-2940UW PCI SCSI card	PCI
	AHA-2940U2W	Adaptec AHA-2940U2W PCI SCSI card	PCI
	ASC-19160	Adaptec Ultra 160 PCI SCSI card 19160	PCI
	ASC-29160	Adaptec Ultra 160 PCI SCSI card 29160	PCI
	ASC-29160N	Adaptec Ultra 160 PCI SCSI card 29160	PCI
	ASC-39160	Adaptec Ultra 160 PCI SCSI card 39160	PCI
Tekram	DC-390U2W	Tekram DC-390U2W PCI SCSI	PCI



### 8.2.3 FAX /CNR Modem Products

#### Test Configuration:

**OS Ver** ☒ Win 98 SE Ver: 4.10.2222A .  
**CPU** Intel Pentium III 667MHz ☒ Intel  
**Memory** Apacer 64MB(AM2V648C2T75) **Total: 128 MB** ☐ PC100 ☒ PC133  
**VGA** Intel 815 ☒ Onboard ☐ AGP 4X  
**HDD** Fujitsu MPE3102AT 10.2GB IDE ☐ UDMA/33 ☒ UDMA/66  
**Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** Panasonic SR-8583B 5X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**Sound** AD1885 AC'97 **PCI\_Slot:** ☐ On board  
**Mouse** Microsoft IntelliMouse PS/2 Mouse ☐ COM ☒ PS/2

The following modem test includes connecting to the internet and download files under under Windows 98 SE with their respective modem drivers installed .

Vendor	Product Description	Bus I/F
Castle Net	56KV.90 Modem Riser Card (MC810)	CNR
TAICOM	56KV.90 Modem Riser Card (MC810)	CNR
GVC	56K FLEX ASVD	External
ADI	CommuPack 56K SVD	External
USR	Sportster 56K Faxmodem	External
Diamond	Supra MAX 56K ITU & flex	Internal/PCI
CIS	PSL 56K data/Fax/RTAP	Internal/PCI
HSP	V1456VQH-P1 56Kbps PCI	Internal/PCI
Archtek	A12PW19085A 56Kbps	Internal/PCI
Turbo	Motorola SM56 Voice PCI	Internal/PCI
Askey	1456VQH75	Internal/PCI
Archtek	A12PW19085A 56Kbps	Internal/PCI

### 8.2.4 PCI Audio Products

#### Test Configuration:

**OS Ver** ☒ Win 98 SE Ver: 4.10.2222A .  
**CPU** Intel Pentium III 800MHz ☒ Intel  
**Memory** KingMAX 128MB(KSV884T4A1A-06) **Total: 128 MB** ☐ PC100 ☒ PC133  
**VGA** Intel 815 ☒ Onboard ☐ AGP 4X  
**HDD** Seagate ST-320420A 20.4GB IDE ☐ PIO4 ☒ UDMA/66  
**Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** BTC BCD 48SB 48X IDE **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**Mouse** Microsoft IntelliMouse PS/2 Mouse ☐ COM ☒ PS/2



The following PCI sound cards test play WAV/MIDI/CD audio and Video CD under Windows 98 SE with their respective sound drivers installed .

Vendor	Model Name	Product Description
Creative	CT-4860	Sound Blaster Live! Platinum
	CT-4750	Sound Blaster PCI128 Digital
	CT-4790	Sound Blaster PCI512 Digital

## 8.3 Storage

### 8.3.1 SCSI Peripheral Products

#### Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222A .  
☒ Win NT Ver: 4.0 + SP6  
 CPU Intel Pentium III 600MHz ☒ Intel  
 Memory Apacer 128MB (GM72V66841ET7K) Total: 256 MB ☒ PC100 ☒ PC133  
 VGA Intel 815 ☒ Onboard ☒ AGP 4X  
 SCSI ASC -29160N Ultra2 Wide SCSI ☒ ISA ☒ PCI\_Solt: 2.  
 Mouse Logitech First Mouse+ Mouse ☒ COM ☒ PS/2

The following SCSI devices test and WinStone 99 under Windows 98/NT with their respective SCSI drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

ITEM	Vendor	Model Name	Product Description
Hard Disk	IBM	DDRS-39130	UltraII SCSI HDD 9.1GB
		DMVS IEC-950	Ultra2 Wide 36GB
	Seagate	ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST318436LW	Barracuda Ultra160 Wide 18GB
		ST318404LW	Cheetah Ultra160 Wide 18GB
		ST-34502LW	Cheetah 9LP Ultra2 Wide 4.5GB
CD-ROM CD-RW	Plextor	PX-40Tsi	Ultra SCSI CD-ROM 40X
	Toshiba	XM-6210B	Ultra SCSI CD-ROM 32X
	NEC	CDR-1910	Ultra SCSI CD-ROM 32X
	SONY	CDU-625	SCSI-II CD-ROM 24X
	TEAC	CD-523S	Ultra SCSI CD-ROM 32X
		CD-R56S	SCSI-II CD-ROM 24R/6W/4RW

### 8.3.2 IDE Fixed Disk Drive Products

#### Test Configuration:

**OS Ver** ☒ Win 98 SE Ver: 4.10.2222A .  
☒ Win NT Ver: 4.0 + SP6  
☒ Win 2000 Ver: 5.00.2195 .  
**CPU** Intel Pentium III 800MHz ☒ Intel  
**Memory** KingStone 128MB(HYB39S64800BT-7.5)Total: 256 MB ☐ PC100 ☒ PC133  
**CD-ROM** Pioneer DVD-105S 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**VGA** Intel 815 ☒ Onboard ☐ AGP 4X  
**Sound** AD1885 AC'97 ☐ PCI\_Slot:    ☒ On board  
**Mouse** Logitech First Mouse+ Mouse ☐ COM ☒ PS/2

The following IDE devices test and WinStone 99/Copy large files under Windows 98/NT/2000 with Intel ATA Storage drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

#### 8.3.2.1 IDE Ultra DMA/66

Vendor	Model Name	Mode	Capacity
WD	AC313000	Ultra DMA 66	13GB
	AC205B	Ultra DMA 66	20.5GB
Seagate	ST-313032A	Ultra DMA 66	13GB
	ST-317242A	Ultra DMA 66	17.2GB
	ST-328040A	Ultra DMA 66	28.5GB
Fujitsu	MPE3102AT	Ultra DMA 66	10.2GB
	MPE3102AH	Ultra DMA 66	10.2GB
	MPE3204AT	Ultra DMA 66	20.4GB
	MPE3204AH	Ultra DMA 66	20.4GB
Quantum	Fireball KA	Ultra DMA 66	13.6GB
	Fireball lct LC	Ultra DMA 66	15GB
	Fireball lct LC	Ultra DMA 66	20GB
	Fireball Plus LM	Ultra DMA 66	20.5GB
	Fireball LM	Ultra DMA 66	30GB
IBM	DJNA-352030	Ultra DMA 66	20.3GB
	DPTA-372730	Ultra DMA 66	27.3GB
	DPTA-353750	Ultra DMA 66	37.5GB
Maxtor	91021U2	Ultra DMA 66	10.2GB
	91360U4	Ultra DMA 66	13.6GB
	91531U3	Ultra DMA 66	15.3GB
	92040U6	Ultra DMA 66	20GB
	92049U4	Ultra DMA 66	20GB
	92720U8	Ultra DMA 66	27GB
	93073U6	Ultra DMA 66	30.7GB
	53073U6	Ultra DMA 66	30.7GB
	94098U8	Ultra DMA 66	40GB
	54098U8	Ultra DMA 66	40GB
Samsung	SV2046D	Ultra DMA 66	20.4GB



### 8.3.2.2 IDE Ultra DMA/100

Vendor	Model Name	Mode	Capacity
IBM	DTLA-307015	Ultra ATA 100	15.3GB
	DTLA-305020	Ultra ATA 100	20.5GB
	DTLA-307020	Ultra ATA 100	20.5GB
	DTLA-307060	Ultra ATA 100	61.4GB
	DTLA-307075	Ultra ATA 100	76.8GB
Maxtor	54098H8	Ultra ATA 100	40.9GB

### 8.3.3 Floppy Disk Drive Products

#### Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222A
☒ Win NT Ver: 4.0 + SP6

CPU Intel Pentium III 700MHz

☒ Intel

Memory NEC 128MB (D4564841G5-A80-9JF)

Total: 128 MB ☐ PC66 ☒ PC100

VGA Intel 815

☒ Onboard ☐ AGP 4X

HDD Quantum Fireball KA 13GB IDE

☐ PIO4 ☒ UDMA/66

CD-ROM BTC BCD 48SB 48X IDE

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

Sound AD1885 AC'97

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Mouse Logitech MouseMan Mouse

☐ PCI\_Slot:     ☒ On board

☐ COM ☒ PS/2

The following Floppy devices were tested by format disk, boot and read/write file under Windows 98/NT with Intel ATA Storage drivers installed.

Vendor	Model Name	Product Description
Panasonic	JU-257A606P	1.44MB Floppy Disk Drive
TEAC	FD-235HF	1.44 MB Floppy Disk Drive
SONY	MPF920-E	1.44 MB Floppy Disk Drive
ALPS	DF354N901C	1.44 MB Floppy Disk Drive

### 8.3.4 ATAPI CD-ROM /DVD-ROM Device Product

#### Test Configuration:

**OS Ver** ☒ Win 98 **SE Ver:** 4.10.2222A  
**CPU** Intel Pentium III 866MHz ☒ Intel  
**Memory** Apacer 128MB (HYB39S64800BT-7.5) **Total:** 256 MB ☐ PC100 ☒ PC133  
**HDD** Maxtor 91531U3 15.3GB IDE ☐ PIO4 ☒ UDMA/66  
**Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**VGA** Intel 815 ☒ Onboard ☐ AGP 4X  
**Sound** AD1885 AC'97 ☐ PCI\_Slot:     ☒ On board  
**Mouse** Logitech TrackmanMarble Mouse ☐ COM ☒ PS/2

The following IDE devices test CD Winbench 99 and play VCD/DVD over night under indows 98 with Intel ATA Storage drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

#### 8.3.4.1 ATAPI CD-ROM:

Vendor	Model Name	Product Description
Panasonic	CR-587-D	ATAPI CD-ROM 32X Mode4
Mitsumi	CRMC-FX4820T	ATAPI CD-ROM 48X UDMA2
TEAC	CD-540E	ATAPI CD-ROM 40X UDMA2
LITE-ON	LTN-403L	ATAPI CD-ROM 40X UDMA2
	LTN-485S	ATAPI CD-ROM 48X UDMA2
Acer	650P	ATAPI CD-ROM 50X UDMA2
BTC	BCD 48SB	ATAPI CD-ROM 48X UDMA2
Philips	PCA323CD	ATAPI CD-ROM 32X UDMA2
Creative	CD4834E	ATAPI CD-ROM 48X Mode4
	CD5220E	ATAPI CD-ROM 52X Mode4
ASUS	CD-S400/A	ATAPI CD-ROM 40X UDMA2
	CD-S500/A	ATAPI CD-ROM 50X UDMA2
SONY	CDU-4811	ATAPI CD-ROM 48X UDMA2

#### 8.3.4.2 ATAPI DVD-ROM:

Vendor	Model Name	Product Description
Toshiba	SD-M1202	ATAPI DVD-ROM 4.8X
SONY	DDU-220E	ATAPI DVD-ROM 5.0X
Hitachi	GD-2500	ATAPI DVD-ROM 6X
Pioneer	DVD-114	ATAPI DVD-ROM 10X
	DVD-115	ATAPI DVD-ROM 16X
	DVD-105S	ATAPI DVD-ROM 16X
Panasonic	SR-8584-B	ATAPI DVD-ROM 6.0X
	SR-8585-B	ATAPI DVD-ROM 8.0X
Acer	DVP1640A	ATAPI DVD-ROM 16X
Afreey	DD-4008E	ATAPI DVD-ROM 8X
	DD-4010E	ATAPI DVD-ROM 10X
Creative	DVD1242E	ATAPI DVD-ROM 12X





### 8.3.5 ATAPI Disk Drive (IDE Interface)

#### Test Configuration:

**OS Ver** ☒ **MS-DOS Ver:** 6.22 .  
☒ **Win 98 SE Ver:** 4.10.2222A .  
**CPU** Intel Pentium III 650MHz ☒ **Intel**  
**Memory** SEC 64MB (KM48S8030BT-GH) **Total:** 128 MB ☐ PC66 ☒ PC100  
**VGA** Intel 815 ☒ **Onboard** ☐ AGP 4X  
**HDD** Seagate ST-317242A 17.2GB IDE ☐ PIO4 ☒ UDMA/66  
**CD-ROM** Acer 650P 50X IDE **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**Sound** AD1885 AC'97 **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**Mouse** Microsoft IntelliMouse Mouse **PCI\_Slot:**     ☒ On board  
☐ COM ☒ PS/2

The following Floppy devices were tested by format disk, boot and read/write file (large file) under DOS 6.22/Windows 98 with Intel ATA Storage drivers installed .

Vendor	Product Description
Panasonic	LKM-F434-105 LS-120
Zip	Z250ATAPI ZIP device 250MB
	Z100iIDE ZIP device 100MB

## 8.4 Peripherals

### 8.4.1 Parallel/Serial Port Products (Including IR)

#### Test Configuration:

**OS Ver** ☒ Win 98 SE Ver: 4.10.2222A .  
**CPU** Intel Pentium III 800MHz ☒ Intel  
**Memory** V-TEC 64MB (GM72V66841ET75) **Total:** 128 MB ☐ PC100 ☒ PC133  
**HDD** IBM DTLA-307030 30GB IDE ☐ UDMA/66 ☒ UDMA/100  
**CD-ROM** Creative DVD1242E 12X IDE DVD **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**VGA** Intel 815 **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**Sound** AD1885 AC'97 ☒ Onboard ☐ AGP 4X  
**Mouse** Logitech TrackMan Marble Mouse ☐ PCI\_Slot:     ☒ On board  
☐ COM ☒ PS/2

The following Parallel/Serial devices be tested under Windows 98 SE with Intel ATA Storage drivers installed.

Vendor	Product Description	Bus I/F
HP	HP LaserJet 6P support IR Interface	LPT/IR
EPSON	Stylus Color 900	LPT
Mustek	Mustek 1200CP Scanner	LPT
Parallel	DirectParallel universal cable	LPT
iomega	Parallel ZIP 250	LPT
Logitech	WingMan Formula Force joystick	COM
Kodak	DC210 InfraRed/Serial port Digital camera	COM/IR
ACTisys	ACT-IR210L	IR
	ACT-IR220L	COM(IR)
IRwave	IRwave320F	IR
	IRwave320S	COM(IR)

### 8.4.2 Mouse Products

#### Test Configuration:

**OS Ver** ☒ Win 95 Ver: OSR2.5 .  
☒ Win 98 SE Ver: 4.10.2222A .  
**CPU** Intel Pentium III 750MHz ☒ Intel  
**Memory** KingSton 64MB (TC59SM716FT-80) **Total:** 128 MB ☐ PC66 ☒ PC100  
**HDD** Seagate ST-320420A 20.4GB IDE ☐ PIO4 ☒ UDMA/66  
**CD-ROM** BTC BCD 48SB 48X IDE **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**VGA** Intel 815 **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**Sound** AD1885 AC'97 ☒ Onboard ☐ AGP 4X  
☐ PCI\_Slot:     ☒ On board  
☐ COM ☒ PS/2

The following Mouse devices test Office 2000 and Game under Windows 95/98 with Mouse drivers installed.

Vendor	Product Description	Bus I/F
Microsoft	IntelliMouse Serial Mouse	Serial/ PS2
	IntelliMouse USB/PS2 Mouse (w IntelliEye)	USB/PS2
	IntelliMouse USB/PS2 Mouse (Optical)	USB/PS2
	IntelliMouse explorer USB/PS2 Mouse	USB/PS2
Logitech	Logitech MouseMan Serial Mouse	Serial/ PS2
	Logitech First Mouse+ Serial Mouse	Serial/ PS2
	Logitech TrackMan Marble Serial Mouse	Serial/ PS2
	Logitech Wheel Mouse (Optical)	USB/PS2
Genius	NetMouse	PS2
	NetScroll Optical	PS2
Samsung	Cyber Beetle Mouse (Optical)	PS2

### 8.4.3 USB Device Products

#### Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222A

CPU Intel Pentium III 800MHz ☒ Intel

Memory SIEMENS 128MB (HYB39S64800CT-8) Total: 256 MB ☐ PC66 ☒ PC133

HDD Maxtor 91021U2 10.2GB IDE ☐ PIO4 ☒ UDMA/66

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM Panasonic SR-8584B 8X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA Intel 815 ☒ Onboard ☐ AGP 4X

Sound AD1885 AC'97 ☐ PCI Slot:    ☒ On board

Mouse Logitech First Mouse+ Mouse ☐ COM ☒ PS/2

The following USB devices be tested under Windows 98 SE with Win 98 default driver installed.

Type	Vendor	Description
Mouse	Logitech	USB Wheel Mouse (M-BB48)
		USB MouseMan Wheel (M-BA47)
		USB Wheel optical Mouse (M-BD58)
	Microsoft	IntelliMouse Mouse (w IntelliEye)
		IntelliMouse Optical USB Mouse
		IntelliMouse explorer USB Mouse
	Justy	UM-400
	XNTC	98NS1-U2
	Cypress	7-895 Mouse
HUB	Belkin	Express Bus F5U001
Camera	Kodak	DVC323
	IBM	XVP610
	AXIS	PCAM-QU

Faxmodem	USRobotics	56K Voice Faxmodem
Keyboard	BTC	8113W
	Jetime	ACK-298H
	Microsoft	Natural Keyboard Pro
Printer	EPSON	Stylus Color 740
		Stylus Color 900
Ethernet	CATC	USB to Lan 10BASE-T
Scanner	EPSON	GT-7000
CD-RW	SONY	Spessa CD-ReWritable Recorder
GamePad	Creative	Cobra USB GamePad
	Logitech	WingMan Extreme USB GamePad
Joystick	Logitech	WingMan Formula Force joystick
	Thrustmaster	TOP Gun

#### 8.4.4 Joystick & Game Pad

##### Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222A

CPU Intel Pentium III 750MHz

☒ Intel

Memory SEC 64MB (KM48S8030BT-GH)

Total: 192 MB ☐ PC66 ☒ PC100

HDD Seagate ST-320420A 20.4GB IDE

☐ PIO4 ☒ UDMA/33

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM Lite-On LTN-485S 48X IDE

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA Intel 815

☒ Onboard ☐ AGP 4X

Sound AD1885 AC'97

☐ PCI\_Slot:     ☒ On board

Mouse Microsoft IntelliMouse Mouse

☐ COM ☒ PS/2

The following Joystick & Game Pad devices test Game under Windows 98 SE with themselves default driver installed.

Type	Vendor	Product Description
GamePad	Logitech	ThunderPad Digital
Joystick	Microsoft	SideWinder 3D Pro joystick
		SideWinder force feedback pro joystick
	Logitech	Wing Man Extreme digital joystick
		WingMan Force joystick
		CyberMan2 Digital Game Controller

## 8.5 Power Supply Products

### Test Configuration:

**OS Ver** ☒ Win ME Ver: 4.90.3000 .  
**CPU** Intel Pentium III 850MHz ☒ Intel  
**Memory** Apacer 64MB(HYB39S64800BT-7.5) Total: 128 MB ☐ PC100 ☒ PC133  
**HDD** Maxtor 52049h4 20.5GB IDE ☐ UDMA/66 ☒ UDMA/100  
**Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** Creative CD-4834E 48X IDE **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**VGA** Intel 815 ☒ Onboard ☐ AGP 4X  
**Sound** AD1885 AC'97 ☐ PCI\_Slot: \_\_. ☒ On board  
**Mouse** Logitech TrackMan Marble Mouse ☐ COM ☒ PS/2

The following Power supply devices test Cool/Warm boot, restart and power management under Windows 98 SE with over 10 times.

Vendor	Product Description	Power	Type
DELTA	DPS-75UB-1	75W	SFX
	DPS-88AB	88W	SFX
	DPS-145PB-91 A Rev:00	145W	SFX
	DPS-145PB-111 A Rev:00	145W	SFX
Seventeam	ST-150MK	150W	SFX
Enlight	SFX-1215A	150W	SFX
	SI-X145M2 REV:A0-01	145W	SFX
	SI-X145M3 REV:B0	145W	SFX
Liteon	PS-5141-4	145W	SFX
SIR TEC	SI-C145M2 REV:C0	145W	SFX
	SI-X145M3 REV:B1	145W	SFX

## 8.6 MPEG-2 DVD Display Products

### Test Configuration:

**OS Ver** ☒ Win 98 SE Ver: 4.10.2222A .  
**CPU** Intel Pentium III 800MHz ☒ Intel  
**Memory** KingStone 128MB(HYB39S64800BT-7.5) Total: 256 MB ☐ PC100 ☒ PC133  
**HDD** Fujitsu MPE3204AT 20.4GB IDE ☐ PIO4 ☒ UDMA/66  
**Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** Hitachi GD-2500 6X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**VGA** Intel 815 ☒ Onboard ☐ AGP 4X  
**Sound** AD1885 AC'97 ☐ PCI\_Slot: \_\_. ☒ On board

**Mouse**    Microsoft IntelliMouse Mouse**COM**    ☒ **PS/2**

The following DVD player over night under Windows 98 with their respective DVD drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

Vendor	VGA Chip	Product Description
Realmagic	Sigma Designs EM8300	DVDmagic Pro DVD card
Creative	Creative CT7235-VBQ	PC-DVD ENCORE
Formosa	Sigma Designs EM8300	DVD8300 DVD card

## 9. Software Compatibility Test Suite

### 9.1 Base Operating System

#### 9.1.1 Microsoft Windows 98 SE:

##### Test Configuration:

**CPU** Intel Pentium III 866MHz ☒ Intel  
**Memory** Micron 128MB(MT48LC8M8A2-75B) **Total: 256 MB** ☐ PC100 ☒ PC133  
**HDD** IBM DTLA-307060 60.9GB IDE ☐ UDMA/66 ☒ UDMA/100  
**Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**VGA** Intel 815 ☒ Onboard ☐ AGP 4X  
**Sound** AD1885 AC'97 ☐ PCI\_Slot:\_\_\_ ☒ On board  
**CD-ROM** Afreedy DD-4008E 8X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**Mouse** Microsoft IntelliMouse Mouse ☐ COM ☒ PS/2

Test Item	Result	Remark
FDISK (FAT32)	PASS	
Install Win OS	PASS	
Format FDD	PASS	
Diskcopy	PASS	
Large file Copy	PASS	
Cool boot 2 times under every combination	PASS	
Reboot 2 times under every combination	PASS	
FIC CD-PRO all Application Install & Test	PASS	
CoreTest 92 (Transfer Rate test)	PASS	85294
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Install Office 2000	PASS	
Auto Shutdown (system power off)	PASS	
Defrag test	PASS	
LS-120/ZIP install & working	PASS	
Year 2000 test	PASS	
VCD play (name: Mercury Rising )	PASS	
GAME play (name: __Need For Speed III __)	PASS	
PM function by WIN98 (H/W )	PASS	
WinStone 99 (Business WS99)	PASS	28.2
CC WinStone 2000	PASS	34.1
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	PASS	
3D Winbench 99 (3D Quality/3D Winmark)	PASS	15.2

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
MS Windows 98 SE	4.10.2222A	English	Microsoft	Pass
	4.10.2222A	Chinese(trad)	Microsoft	Pass
	4.10.2184.1	Chinese(simp)	Microsoft	Pass

### 9.1.2 Microsoft Windows 2000:

#### Test Configuration:

**CPU** Intel Pentium III 866MHz ☒Intel  
**Memory** Winbond 128MB(W981208AH-75) **Total: 256 MB** ☐PC100 ☒PC133  
**HDD** IBM DTLA-305020 20GB IDE ☐PIO4 ☐UDMA/66 ☒UDMA/100  
**VGA** Intel 815 ☒Onboard ☐AGP 4X  
**Sound** AD1885 AC'97 ☐PCI\_Slot: \_\_ ☒On board  
**CD-ROM** Pioneer DVD-114 15X IDE DVD **Channel:** ☐PM ☐PS ☒SM ☐SS  
**Mouse** Microsoft IntelliMouse Mouse ☐COM ☒PS/2

Test Item	Result	Remark
Install Win 2000 with NTFS (boot from CD )	PASS	
Install OS	PASS	
Format FDD	PASS	
FIC CD-PRO all M/B drivers Install & Test	PASS	
FIC CD-PRO all Application Install & Test	PASS	
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Large file Copy (one file Over 500MB)	PASS	
Install Office 2000	PASS	
VCD/DVD play (name: Mercury Rising )	PASS	
Power Management (Stand By function)	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
Hibernate (Suspend To Disk)	Power button	PASS
	Start → Hibernate item	PASS
	Time Out	PASS
System Shutdown	Power button	PASS
	Start → Shut down item	PASS
WinStone 99 (Business WS99)	PASS	38.6/48.6



CC WinStone 2000	PASS	39.2
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	PASS	

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
MS Windows 2000 Professional	5.00.2195	English	Microsoft	Pass

### 9.1.3 Microsoft Windows NT 4.0 + Service Pack 6:

#### Test Configuration:

**CPU** Intel Pentium III 866MHz ☒ Intel  
**Memory** Apacer 128MB(GM72V66841XT75) **Total: 256 MB** ☐ PC100 ☒ PC133  
**HDD** IBM DTLA-307020 20GB IDE ☐ PIO4 ☐ UDMA/66 ☒ UDMA/100  
**VGA** Intel 815 ☒ Onboard ☐ AGP 4X  
**Sound** AD1885 AC'97 ☐ PCI\_Slot: \_\_ ☒ On board  
**CD-ROM** Lite-On LTN-485S 48X IDE **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**Mouse** Logitech Mouse+ Mouse ☐ COM ☒ PS/2

Test Item	Result	Remark
Install Win NT with NTFS (boot from CD )	PASS	
Install Service Pack 5.0/6.0	PASS	
Format FDD	PASS	
Cool boot 2 times under every combination	PASS	
Reboot 2 times under every combination	PASS	
VGA Resolution/Color change	PASS	
VCD/DVD play (name: Mercury Rising )	PASS	
PM function by Win NT	PASS	
WinStone 99 (Business/High End WS99)	PASS	40/52.4
CC WinStone 2000	PASS	44.6
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	PASS	

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
Windows NT Workstation	4.0	English	Microsoft	Pass
	4.0	Japanese	Microsoft	Pass



Windows NT Workstation Service Pack	6.0	English	Microsoft	Pass
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#### 9.1.4 IBM OS/2 4.0:

##### Test Configuration:

**CPU** Intel Pentium III 866MHz ☒ Intel  
**Memory** Micron 128MB (MT48LC8M8A2-75B) Total: 256 MB ☐ PC100 ☒ PC133  
**HDD** Fujitsu MPB3032AT 3.2GB IDE ☐ PIO4 ☒ UDMA/33  
**VGA** S3 Trio64+ ☒ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** Afreedy DD-4008E 8X IDE DVD ☒ PCI\_Slot: 2 ☐ AGP  
**Mouse** Logitech Mouse+ Mouse Channel: ☐ PM ☐ PS ☒ SM ☐ SS  
☐ COM ☒ PS/2

Test Item	Result	Remark
Install OS/2 (HPFS)	PASS	
Format FDD	PASS	
XCOPY	PASS	
Diskcopy	PASS	
VGA Resolution/Color change	PASS	
DOS Windows	PASS	
OS/2 Windows	PASS	
PM function (H/W & BIOS)	PASS	

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board.Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
IBM OS/2 Warp	4.0	English	IBM	Pass

#### 9.1.5 LINUX :

##### Test Configuration:

**CPU** Intel Pentium III 866MHz ☒ Intel  
**Memory** Buffalo 64MB (GM72V66841ET7K) Total: 128 MB ☐ PC100 ☒ PC133  
**HDD** Quantum Fireball LM 20.5GB IDE ☐ PIO4 ☒ UDMA/66  
**VGA** Intel 815 ☒ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** Pioneer DVD-114S 15X IDE DVD ☒ Onboard ☐ AGP 4X  
**Mouse** Logitech Mouse+ Mouse Channel: ☐ PM ☐ PS ☒ SM ☐ SS  
☐ COM ☒ PS/2

The board is tested to ensure that it runs a complete a range of Operating Systems.

Operating System	Version	Language	Status
Red Hat	6.2	English	Pass
Open Linux	2.4	English	Pass

### 9.1.6 Microsoft Windows ME:

#### Test Configuration:

**CPU** Intel Pentium III 866MHz ☒Intel  
**Memory** KingSton 128MB(HYB39S64800BT-7.5)Total: 256 MB ☐PC100 ☒PC133  
**HDD** Maxtor 54098H8 40.9GB IDE ☐PIO4 ☐UDMA/66 ☒UDMA/100  
**Channel:** ☒PM ☐PS ☐SM ☐SS  
**VGA** Intel 815 ☒Onboard ☐AGP 4X  
**Sound** AD1885 AC'97 ☐PCI\_Slot:\_\_\_ ☒On board  
**CD-ROM** Sony CDU-4811 48X IDE **Channel:** ☐PM ☐PS ☒SM ☐SS  
**Mouse** Microsoft IntelliMouse Mouse ☐COM ☒PS/2

Test Item	Result	Remark
FDISK (FAT32)	PASS	
Install OS	PASS	
Format FDD	PASS	
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Large file Copy (one file Over 500MB)	PASS	
Install Office 2000	PASS	
Media Player 7.0 (play MIDI/MP3/CD Audio)	PASS	
LS-120/ZIP install & working	PASS	
VCD/DVD play (name: Mercury Rising )	PASS	
Power Management (Stand By function)	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
Hibernate (Suspend To Disk)	Power button	PASS
	Start → Hibernate item	PASS
	Time Out	PASS
System Shutdown	Power button	PASS
	Start → Shut down item	PASS
IE 5.5 (Install LAN card to connect to Internet)	PASS	
System Restore	PASS	
WinStone 99 (Business WS99)	PASS	29.9
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	PASS	
3D Winbench 2000 (3D Quality/3D Winmark)	PASS	14.8

The board is tested to ensure that it runs a complete a range of Operating Systems and thus operate in all network environments The board Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
MS Windows ME	4.90.3000	English	Microsoft	Pass



**Test Engineer:**

**BIOS:**         *Benson Shen*    

**OS:**         *Scott Lin*    

**I/O :**         *Peter Churg*    

**Audio:**     *Brad Su*    

**CPU/Memory:**     *Leon Liang*    

**VGA:**     *Lion Liou*    

**Logo:**     *Joy Tsai*    

**IDE Devices:**     *Scott Lin*    

**Check by:**     *Lion Liou*    

**Ownership:**     *Benson Shen*