

# **FIC FS39T PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT**

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Supervisor	Tester

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## Revision History

Document Release	Date	Change Item	ECN
Revision 1.00	7/11/2001	Initial Release.	
Revision 1.01	8/21/2001	Add support Intel Pentium III 1.1GHz(FSB 100MHz) CPU Add support Intel Celeron 950MHz/1.1GHz (FSB 100MHz) CPU	
Revision 1.02	10/25/2001	BIOS update version to IDI42 Add support Intel Celeron 1.2GHz CPU Add support Microsoft Win XP/Home Edition	

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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** : FS39T PCB Rev 1.1  
**Product Name** : Intel 815EP Based Mainboard  
**System BIOS** : Award BIOS Version IDI42  
**PCI IDE** : Internal PCI Mastre dual IDE  
**I/O** : WinBond W83627HF-AW

## 3. Mainboard CPU Supports:

### Intel :

Intel Processors	Bus	Package	Status	Remark
Celeron 533MHz	66	FC-PGA	Pass	C-Step
Celeron 566MHz	66	FC-PGA	Pass	C-Step
Celeron 600MHz	66	FC-PGA	Pass	C-Step
Celeron 633MHz	66	FC-PGA	Pass	C-Step
Celeron 667MHz	66	FC-PGA	Pass	C-Step
Celeron 700MHz	66	FC-PGA	Pass	C-Step
Celeron 766MHz	66	FC-PGA	Pass	C/D-Step
Celeron 800MHz	100	FC-PGA	Pass	C-Step
Celeron 850MHz	100	FC-PGA	Pass	C/D-Step
Celeron 900MHz	100	FC-PGA	Pass	C/D-Step
Celeron 950MHz	100	FC-PGA	Pass	D-Step
Celeron 1.1GHz	100	FC-PGA	Pass	D-Step
Celeron 1.2GHz (Tualatin)	100	FC-PGA	Pass	
Pentium III 500MHz (Coppermine)	100	FC-PGA	Pass	C-Step
Pentium III 533MHz (Coppermine)	133	FC-PGA	Pass	C-Step
Pentium III 550MHz (Coppermine)	100	FC-PGA	Pass	C-Step
Pentium III 600MHz (Coppermine)	100	FC-PGA	Pass	C-Step
Pentium III 600MHz (Coppermine)	133	FC-PGA	Pass	C-Step
Pentium III 667MHz (Coppermine)	133	FC-PGA	Pass	C-Step
Pentium III 700MHz (Coppermine)	100	FC-PGA	Pass	C-Step
Pentium III 733MHz (Coppermine)	133	FC-PGA	Pass	C-Step
Pentium III 750MHz (Coppermine)	100	FC-PGA	Pass	C-Step
Pentium III 800MHz (Coppermine)	133	FC-PGA	Pass	C-Step
Pentium III 850MHz (Coppermine)	100	FC-PGA	Pass	C/D-Step
Pentium III 866MHz (Coppermine)	133	FC-PGA	Pass	C-Step
Pentium III 933MHz (Coppermine)	133	FC-PGA	Pass	C-Step
Pentium III 1GHz (Coppermine)	133	FC-PGA	Pass	C/D-Step
Pentium III 1.1GHz (Coppermine)	100	FC-PGA	Pass	D-Step
Pentium III 1.13GHz (Coppermine)	133	FC-PGA	Pass	D-Step
Pentium III 933MHz (Tualatin)	133	FC-PGA	Pass	
Pentium III 1GHz (Tualatin)	133	FC-PGA	Pass	
Pentium III 1.13GHz (Tualatin)	133	FC-PGA	Pass	
Pentium III 1.2GHz (Tualatin)	133	FC-PGA	Pass	

### Cyrix :

Cyrix Processors	Bus	Package	Status
Cyrix III 667MHz (Samuel 2)	133	FPGA	Pass

Cyrix III 700MHz (Samuel 2)	100	FPGA	Pass
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## 4. System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	Intel 815EP (82815EP+82801BA)
System Cache	128K/256K Pipeline Burst SRAM Built-in CPU
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 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	6.10.011	PASS
2	Intel 815E graphics driver for Win 9x/NT/ME/2000	6.31	PASS
3	Intel Chipset Software Install Utility	2.90.007	PASS
4	AD1885 codec driver for Win 9x/ME/2000	5.12.01.3009	PASS
5	AD1885 codec driver for Win NT	4.02.00.0035	PASS
6	Award BIOS Flash ROM Utilities	8.02A	PASS

## 5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPK	Open	Pass
Power LED (Single color)	PW_LED	Open	Pass
Power LED (Dual color)	LED_G/LED_Y	Open	Pass
IDE LED Connector	HD_LED	Open	Pass
Reset Switch	RST	Open	Pass
Remote Power Switch	PW_SW	Open	Pass



Sleep Switch	SP_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	IRRX/IRTX	Open	Pass
Host Frequency Jumper	JP3	1-3,2-4	Pass

## 6. Stability Test

### 6.1 CPU Over Clock Test:

System Configuration			
<b>CPU</b>	: Intel P-III 933	<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 256MB (128MB x 2)	<b>Mouse</b>	: Microsoft PS/2 mouse
<b>HDD (ATA/66)</b>	: IBM DJNA-371350 13.5GB	<b>PowerSupply</b>	: Delta DPS-200PB-103 200W
<b>VGA</b>	: ASUS AGP-V6800 AGP	<b>O.S. Environment</b>	: Windows 2000
<b>DVD-ROM</b>	: Afreedy DD-4008E 8X		

NO.	Over clock level		Test Result				
	FSB	CPU ID	Cool boot	Install OS	PM	Winstone 2001	3D Winbench
1	140MHz	980MHz	Pass	Pass	Pass	Pass	Pass

## 6.2 Full Loading Test:

System Configuration	
<b>CPU</b> : Intel P-III 933	<b>PCI 1</b> : Creative Digital 128 Sound card
<b>Cache Memory</b> : 256 K	<b>PCI 2</b> : Accton Cheetah PCI LAN card
<b>Memory</b> : SDRAM 256MB (128MB x 2)	<b>PCI 3</b> : Adaptec AHA-39160 SCSI card
<b>HDD 1</b> : IBM DTLA-371350 13.5GB	<b>Audio</b> : Onboard AD1885 AC'97 Audio
<b>HDD2</b> : Seagate ST317242A 17.2GB	<b>Mouse</b> : Microsoft PS/2 mouse
<b>HDD3</b> : WD 310200 10.2GB	<b>PowerSupply</b> : Delta DPS-200PB-103 200W
<b>DVD-ROM1</b> : Afreedy DD-4008E 8X	<b>O.S. Environment:</b> Windows ME
<b>VGA</b> : ASUS AGP-V6800 AGP	
<b>FDD</b> : NEC FD1231T 1.44MB	

Test Result						
Cool boot	BIOS detect	Install OS	All devices Driver install	PM	Winstone 2001	3D Mark 2001
Pass	Pass	Pass	Pass	Pass	Pass	Pass

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

System Configuration	
<b>CPU</b> : Intel P-III 1.0GHz	<b>FDD</b> : NEC FD1231T 1.44MB
<b>Cache Memory</b> : 256 K	<b>PowerSupply</b> : Seventeam ST-150MK 145W SFX
<b>Memory</b> : SDRAM 256MB (128MB x 2)	
<b>VGA</b> : ATI Radeon AGP	

Test Result	
Cool Boot (over 1500 times)	Pass

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

Software Name	Duration	Result
Winstone 2001 Under WIN ME	12hr.	Pass
Test Configurations for Win ME	Intel Pentium III 1.0GHz IBM DTLA-307045 ATA/100 45GB HDD KingSton 256MB SDRAM Memory.(IBM) X 2 ELSA GLADIAC AGP	
CC Winstone 2001 Under WIN 2000	12hr.	Pass





Test Configurations for Windows 2000	Intel Celeron 900MHz Fujitsu MPG3204AT ATA/100 20.4GB HDD KingSton 256MB SDRAM Memory.(IBM) X 2 ELSA GLADIAC AGP
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## 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 Maxtor 53073H6 30.6GB IDE ☒ ATA/66 ☒ ATA/100  
Channel: ☒ PM ☒ PS ☒ SM ☒ SS

VGA ELSA GLADIAC MX ☒ Onboard ☒ AGP 4X  
Channel: ☒ PM ☒ PS ☒ SM ☒ SS

CD-ROM TEAC CD-540E 40X  
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 2001/3D Mark 2001 under Windows ME/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	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
KingMAX	KSV884T4A1A-07	No	64MB	S	MPG643S-883
	KSV884T4A1A-07	No	128MB	D	MPGA83S-883
	KSV884T4A1A-06	No	128MB	D	MPGA83S-883
	KSV684T4A1A-06	No	256MB	D	MPJB63S-68KX
Transcend	K4S640832D-TC75	No	256MB	D	TS16MLS64V6W (SEC)
Apacer	HYB39S64800BT-7.5	No	64MB	S	71.63350.114 (Infineon)
	AM2V648C2T75	No	64MB	S	71.63350.034 (Apacer)
	HYB39S64800BT-7.5	No	128MB	D	71.73350.114 (Infineon)
	GM72V66841XT75	No	128MB	D	71.73350.064 (Hyundai)
	AM2V648C2T75	No	128MB	D	71.73350.034 (Apacer)
Buffalo	W981208AH-75	No	128MB	S	VS133-128M (Winbond)
	5264805FTT75	No	64MB	S	VS133-64M (Hitachi)
	5264805FTT75	No	128MB	D	VS133-128M (Hitachi)
	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(Toshiba)
	HYB39S64800BT-7.5	No	64MB	S	KVR-PC133/64 (Infineon)
	HYB39S64800BT-7.5	No	128MB	D	KVR-PC133/128 (Infineon)
	0312804CT3A-75A	No	256MB	D	KVR-PC133/256 (IBM)
	V54C3128804VAT7	No	256MB	D	KVR133X64C3/256(Mosel)
	W981208BH-75	No	256MB	D	KVR133X64C3/256(Winbond)
	D45128841G5-A75-9JF	No	256MB	D	KVR133X64C3/256 (NEC)
SIMONS	D45128841G5-A80-9JF	No	128MB	S	

## 8.2 Add-on Cards

### 8.2.1 Display Adapter Products

#### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000 .  
CPU Intel Pentium III 1.0GHz ☒ Intel  
Memory Buffalo 128MB(Winbond) Total: 256 MB ☐ PC100 ☒ PC133  
HDD Maxtor 93072U6 30.7GB ☐ ATA/66 ☒ ATA/100  
Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
CD-ROM Acer DVP1640A 16X 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 3Dmark 2001/Final Reality 1.01 /Suspend to Disk(S4) under Windows ME 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 128GL	Rage Fury	4.13.7110
	Rage 128GL	XPERT 128	4.13.7110
	Rage 128VR	XPERT 2000	4.13.7110
	Rage 128 Pro	Rage Fury MAXX	4.12.7942
	Rage XL	Rage XL	4.12.2647
ASUS	Riva TNT	AGP-V3400TNT	4.12.01.0631
Matrox	MGA-G200	Millennium G200	4.12.01.2730
	MGA-G200A	Millennium G200 LE	4.12.01.2730
	MGA-G400	Millennium G400 DH	4.12.01.1810
Creative	Riva TNT2 M64	3D Blaster Riva TNT2 Value	4.12.01.0680
	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra	4.12.01.0680
ELSA	Riva TNT	ERAZOR II	4.12.01.0680
Cardex	3D Labs Permedia 3	Cardexpert P3	4.12.01.2107
Mitac	Voodoo 3 1000	Voodoo 3 1000	4.12.01.0666
	Riva TNT2 Vanta LT	Riva TNT2 Vanta LT	4.12.01.0680
Leadtek	Riva TNT2 Ultra	Winfast 3D 320II Ultra	4.12.01.06
	SiS 300	Winfast VR300	4.12.01.1030
3dfx	Voodoo 3 2000	Voodoo 3 2000	4.12.01.0666
	Voodoo 3 3000	Voodoo 3 3000	4.12.01.0666
	Voodoo 3 3500	Voodoo 3 3500 TV	4.12.01.0666
	Voodoo 5 5500	Voodoo 5 5500	4.12.01.0666

#### 8.2.1.2 4X AGP Display Adapter Products

Vendor	Model Name	Product Description	Driver version
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Leadtek	Riva TNT2 M64	WinFast 3D S325	4.12.01.0627
	Riva TNT2 Vanta	WinFast 3D S320V	4.12.01.0648
	GeForce256	Winfast GeForce256	4.12.01.0648
	GeForce256 GTS	Winfast GeForce 2 GTS	4.12.01.0648
	GeForce2 MX	Winfast GeForce2 MX	4.12.01.0648
	Riva TNT2 Pro	WinFast 3D S320 II Pro	4.12.01.0648
	Riva Geforce3	WinFast Geforce3	4.13.01.1200
Matrox	MGA-G400	Millennium G400 SH	4.12.01.1810
	MGA-G400	Millennium G400 MAX	4.12.01.1810
	MGA-G450	Millennium G450	4.12.01.1810
ATI	Rage 128 Pro	Rage Fury Pro	4.13.7110
	Rage 128 Pro	XPERT 2000 Pro	4.13.7110
	Rage 128 Pro	All-In-Wonder 128 Pro	4.13.7103
	Radeon	Radeon	4.13.7103
	Radeon	All-In-Wonder Radeon	4.13.7103
Cardex	Savage 2000	Cardexpert Savage 2000	4.12.01.9015
	Riva TNT2 Vanta	Cardexpert TNT2 Vanta	4.12.01.0650
ASUS	Riva TNT2 Pro	AGP-V3800 Pro	4.12.01.0631
	Riva GeForce 256	AGP-V6600	4.12.01.0631
	GeForce256 DDR	AGP-V6800	4.12.01.0631
	GeForce2 MX	AGP-V7100	4.12.01.0533
	Riva GeForce2 GTS	AGP-V7700	4.12.01.0533
	Riva GeForce2 GTS	AGP-V7700 Deluxe	4.12.01.0533
Creative	Riva Geforce 256	3D Blaster GeForce256	4.12.01.0680
	Riva Geforce 256	3D Blaster GeForce Pro	4.12.01.0680
	GeForce2 GTS	3D Blaster Geforce2 GTS	4.12.01.0680
ELSA	Riva TNT2	ERAZOR III	4.12.01.0756
	Riva TNT2	Synergy II	4.12.01.0756
	Riva TNT2 M64	ERAZOR III LT	4.12.01.0756
	Riva TNT2 Vanta	ERAZOR III LT-16	4.12.01.0756
	Riva TNT2 Pro	ERAZOR III Pro	4.12.01.0756
	Riva GeForce 256	ERAZOR X	4.12.01.0756
	Riva GeForce 256 DDR	ERAZOR X <sup>2</sup>	4.12.01.0756
	Riva Geforce2 GTS	GLADIAC	4.13.01.1240
	GeForce2 MX	GLADIAC MX	4.13.01.1240
	Riva Geforce2 Ultra	GLADIAC Ultra	4.13.01.1240
	GeForce2 MX 400	GLADIAC 511	4.13.01.1240
	GeForce2 GTS Pro	GLADIAC Pro	4.13.01.1240

### 8.2.1.3 PCI Display Adapter Products

Vendor	VGA Chip	Product Description
Creative	S3 Savage 4	3D Blaster Savage 4
ASUS	Riva TNT2	PCI-V3800
3dfx	Voodoo3 3000	Voodoo3 3000
3dfx	Voodoo5 5500	Voodoo5 5500

### 8.2.2 SCSI Adapter Products

#### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000

☒ Win 2000 Ver: 5.00.2195 .  
**CPU** Intel Pentium III 866MHz ☒ Intel  
**Memory** Buffalo 128MB (Hyundai) **Total:** 256 MB ☐ PC100 ☒ PC133  
**VGA** ELSA GLADIAC 511 ☐ Onboard ☒ AGP 4X  
**HDD** IBM DMVSIEC-950 9.1GB ☐ Ultra II SCSI ☒ Ultra Wide  
**CD-ROM** Plextor PX-40TX 40X 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 2001 under Windows ME/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-29160N	Adaptec Ultra 160 PCI SCSI card 29160N	PCI
	ASC-39160	Adaptec Ultra 160 PCI SCSI card 39160	PCI
Tekram	DC-390U3W	Tekram DC-390U3W PCI SCSI	PCI

### 8.2.3 PCI /CNR Modem Products

#### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000 .  
**CPU** Intel Pentium III 933MHz ☒ Intel  
**Memory** KingMax 128MB(KingMax) **Total:** 256 MB ☐ PC100 ☒ PC133  
**VGA** ASUS AGP-V7700 Dulex ☐ Onboard ☒ AGP 4X  
**HDD** Seagate ST-330631A 30.6GB IDE ☐ ATA/66 ☒ ATA/100  
**CD-ROM** Acer DVP1640P 16X IDE DVD **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS  
**Sound** AD1885 AC'97 **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS  
**Mouse** Microsoft IntelliMouse PS/2 Mouse ☐ PCI\_Slot:     ☒ On board  
☐ COM ☒ PS/2

The following modem test includes connecting to the internet and download files under under Windows ME 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
Diamond	Supra MAX 56K ITU & flex	PCI
CIS	PSL 56K data/Fax/RTAP	PCI
HSP	V1456VQH-P1 56Kbps PCI	PCI
Archtek	A12PW19085A 56Kbps	PCI



Askey	1456VQH75	PCI
Origo	V.90 56K FAX Modem	PCI

## 8.2.4 PCI IDE RAID Products

### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000 .  
CPU Intel Pentium III 1.0GHz ☒ Intel  
Memory Buffalo 128MB(Hitachi) Total: 256 MB ☒ PC100 ☒ PC133  
VGA Leadtek Winfast 3D S320II Pro ☒ Onboard ☒ AGP 4X  
HDD1 Seagate ST-330631A 30.6GB IDE ☒ ATA/66 ☒ ATA/100  
HDD2 Samsung SV3063H 30.6GB IDE ☒ ATA/66 ☒ ATA/100  
HDD3 IBM DTLA-307015 15.3GB IDE ☒ ATA/66 ☒ ATA/100  
HDD4 Fujitsu MPG3204AT 20.4GB IDE ☒ ATA/66 ☒ ATA/100  
CD-ROM Pioneer DVD-105S 16X IDE DVD Channel: ☒ YPM ☒ YPS ☒ SM ☒ SS  
Sound AD1885 AC'97 ☒ PCI\_Slot:     ☒ On board  
Mouse Microsoft IntelliMouse PS/2 Mouse ☒ COM ☒ PS/2

The following PCI RAID card test RAID 0/1 under Windows ME with their respective drivers installed

Vendor	Product Description	Chip
Promise	Fast TRAK100 ATA RAID Controller Card	PROMISE PDC20267

## 8.3 Storage

### 8.3.1 SCSI Peripheral Products

#### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000 .  
☒ Win 2000 Ver: 5.00.2195 .  
CPU Intel Pentium III 866MHz ☒ Intel  
Memory Buffalo 64MB (Hyundai) Total: 128 MB ☒ PC100 ☒ PC133  
VGA ATI All-In-Wonder 128 Pro ☒ 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 2001 under Windows ME/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.

ITEM	Vendor	Model Name	Product Description
Hard Disk	IBM	COMP IEC-950	Ultra2 Wide 9.1GB
		DDYS-T36950	Ultra2 Wide 36GB
	Seagate	ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST318436LW	Barracuda Ultra160 Wide 18GB
		ST318404LW	Cheetah Ultra160 Wide 18GB
		ST39236LW	Barracuda Ultra160 Wide 9GB
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
	Nichimen	CDR-BP3N	32R12W10RW SCSI CD-RW

### 8.3.2 IDE Fixed Disk Drive Products

#### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000 .

☒ Win 2000 Ver: 5.00.2195 .

CPU Intel Pentium III 850MHz ☒ Intel

Memory KingMax 128MB(KingMax) Total: 256 MB ☒ PC100 ☒ PC133

CD-ROM Creative DVD1242E 12X IDE DVD Channel: ☒ YPM ☒ YPS ☒ SM ☒ YSS

VGA Leadtek Geforce2 GTS ☒ 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 2001/Copy large files under Windows ME/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 ATA 66	13GB
	AC205B	Ultra ATA 66	20.5GB
Seagate	ST-313032A	Ultra ATA 66	13GB
	ST-317242A	Ultra ATA 66	17.2GB
	ST-328040A	Ultra ATA 66	28.5GB
Fujitsu	MPE3102AH	Ultra ATA 66	10.2GB
	MPE3204AT	Ultra ATA 66	20.4GB
	MPE3204AH	Ultra ATA 66	20.4GB
IBM	DJNA-352030	Ultra ATA 66	20.3GB
	DPTA-372730	Ultra ATA 66	27.3GB
	DPTA-353750	Ultra ATA 66	37.5GB
Maxtor	91021U2	Ultra ATA 66	10.2GB





	91360U4	Ultra ATA 66	13.6GB
	91531U3	Ultra ATA 66	15.3GB
	92040U6	Ultra ATA 66	20GB
	92049U4	Ultra ATA 66	20GB
	92720U8	Ultra ATA 66	27GB
	93073U6	Ultra ATA 66	30.7GB
	53073U6	Ultra ATA 66	30.7GB
	94098U8	Ultra ATA 66	40GB
	54098U8	Ultra ATA 66	40GB

### 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-307030	Ultra ATA 100	30.7GB
	DTLA-307045	Ultra ATA 100	46.1GB
	DTLA-307060	Ultra ATA 100	61.4GB
	DTLA-307075	Ultra ATA 100	76.8GB
Maxtor	51536H2	Ultra ATA 100	15.3GB
	52049H4	Ultra ATA 100	20.4GB
	53073H6	Ultra ATA 100	30.6GB
	54098H8	Ultra ATA 100	40.9GB
	5T060H6	Ultra ATA 100	61GB
	98196H8	Ultra ATA 100	80GB
Seagate	ST320414A	Ultra ATA 100	20GB
	ST330631A	Ultra ATA 100	30.6GB
	ST340824A	Ultra ATA 100	40GB
WD	Caviar WD300	Ultra ATA 100	30GB
	Caviar WD400	Ultra ATA 100	40GB
Fujitsu	MPG3204AT	Ultra ATA 100	20.4GB
	MPG3307AT	Ultra ATA 100	30.7GB
	MPG3049AT	Ultra ATA 100	40.9GB
Samsung	SV3063H	Ultra ATA 100	30.6GB

### 8.3.3 Floppy Disk Drive Products

#### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000

CPU Intel Pentium III 866MHz ☒ Intel

Memory KingSton 256MB (NEC)

Total: 256 MB ☐ PC100 ☒ PC133

VGA ATI XPERT 2000 Pro

☐ Onboard ☒ AGP 4X

HDD Maxtor 53073H6 30.6GB IDE

☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM BTC BCD 48SB 48X IDE

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Sound AD1885 AC'97

☐ PCI\_Slot:    ☒ On board

Mouse Logitech MouseMan Mouse

☐ COM ☒ PS/2

The following Floppy devices were tested by format disk, boot and read/write file under under Windows ME 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 ME Ver: 4.90.3000 .  
 CPU Intel Pentium III 866MHz ☒ Intel  
 Memory Apacer 128MB (Infineon) Total: 256 MB ☐ PC100 ☒ PC133  
 HDD Seagate ST-320414A 20GB IDE ☐ ATA/66 ☒ ATA/100  
 Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
 VGA Matrox Millennium G400 MAX ☐ Onboard ☒ AGP 4X  
 Sound AD1885 AC'97 ☐ PCI\_Slot: \_\_ ☒ On board  
 Mouse Logitech TrackmanMarble Mouse ☐ COM ☒ PS/2

The following IDE devices test play VCD or DVD under windows ME 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
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
AOpen	CD-952E/AKH	ATAPI CD-ROM 52X UDMA2
BTC	BCD 48SB	ATAPI CD-ROM 48X 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
ASUS	DVD-E608	ATAPI DVD-ROM 8X
	DVD-E612	ATAPI DVD-ROM 12X
SONY	DDU1211	ATAPI DVD-ROM 12X



Pioneer	DVD-114	ATAPI DVD-ROM 10X
	DVD-115	ATAPI DVD-ROM 16X
	DVD-105S	ATAPI DVD-ROM 16X
	DVD-116	ATAPI DVD-ROM 16X (UDMA66)
Panasonic	SR-8585-B	ATAPI DVD-ROM 8.0X
	SR-8587-B	ATAPI DVD-ROM 16X
Acer	DVP1640A	ATAPI DVD-ROM 16X
Afreedy	DD-4008E	ATAPI DVD-ROM 8X
	DD-4010E	ATAPI DVD-ROM 10X
Creative	DVD1242E	ATAPI DVD-ROM 12X
Lite-On	LTD-122	ATAPI DVD-ROM 12X

## 8.4 Peripherals

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

#### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000

CPU Intel Pentium III 1.0GHz ☒ Intel

Memory KingSton 128MB(Infineon)

Total: 256 MB ☐ PC100 ☒ PC133

HDD Maxtor 94098U8 40.9GB IDE

☒ ATA/66 ☐ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM ASUS CD-S400/A 40X IDE

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA Matrox Millennium G200 LE

☐ Onboard ☒ AGP 2X

Sound AD1885 AC'97

☐ PCI Slot:     ☒ On board

Mouse Logitech TrackMan Marble Mouse

☐ COM ☒ PS/2

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

Vendor	Product Description	Bus I/F
EPSON	Stylus Color 900	LPT
Mustek	Mustek 1200CP Scanner	LPT
IOMEGA	Parallel ZIP 250	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
IRwave	IRwave320F	IR

## 8.4.2 Mouse Products

### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000 .  
CPU Intel Pentium III 1.13GHz ☒ Intel  
Memory SIMONS 128MB (NEC) Total: 256 MB ☐ PC100 ☒ PC133  
HDD Maxtor 54098H8 40.9GB IDE ☐ ATA/66 ☒ ATA/100  
Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
CD-ROM Lite-On LTD-122 12X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS  
VGA Matrox Millennium G400 Max ☐ Onboard ☒ AGP 4X  
Sound AD1885 AC'97 ☐ PCI Slot:     ☒ On board

The following Mouse devices test Office 2000 and Game under Windows ME with Mouse drivers installed.

Vendor	Product Description	Bus I/F
Microsoft	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 Wheel Mouse (Optical)	USB/PS2
Samsung	Cyber Beetle Mouse (Optical)	PS2
Genius	NetScroll Optical	PS2

## 8.4.3 USB Device Products

### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000 .  
CPU Intel Pentium III 1.0GHz ☒ Intel  
Memory KingSton 128MB (Infineon) Total: 256 MB ☐ PC100 ☒ PC133  
HDD Maxtor 94098U8 40.9GB IDE ☐ ATA/66 ☒ ATA/100  
Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
CD-ROM ASUS DVD-E612 12X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA Matrox Millennium G400 Max

☐ 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 ME with Win ME 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
	XNTC	98NS1-U2
	Cypress	7-895 Mouse
HUB	Belkin	Express Bus F5U001
Camera	Kodak	DVC323
	IBM	XVP610
Keyboard	BTC	8113W
	Jetime	ACK-298H
	Microsoft	Natural Keyboard Pro
Printer	EPSON	Stylus Color 740
		Stylus Color 900
Scanner	EPSON	GT-7000
	HP	ScanJet 4200C
Ethernet	CATC	USB Ethernet Link
Monitor	CTX	PR711F
ZIP	iomega	ZIP 250
GamePad	Creative	Cobra USB GamePad
	Logitech	WingMan Extreme USB GamePad
Joystick	Logitech	WingMan Formula Force joystick
	Microsoft	SideWinder Precision 2
	Genius	Flight2000 F-22X
	Thrustmaster	TOP Gun

#### 8.4.4 Joystick & Game Pad

##### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000

CPU Intel Pentium III 1.13GHz ☒ Intel

Memory SIMONS 128MB (NEC)

Total: 256 MB ☐ PC100 ☒ PC133

HDD Maxtor 54098H8 40.9GB IDE

☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM Lite-On LTD-122 12X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA Matrox Millennium G400 Max

☐ 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 ME with themselves default driver installed.

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

## 8.5 Power Supply Products

### Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222ACPU Intel Pentium III 1.0GHz ☒ Intel

Memory Buffalo 128MB(SEC)

Total: 128 MB ☒ PC100 ☒ PC133

HDD WD 300B 30GB IDE

☒ ATA/66 ☒ ATA/100Channel: ☒ PM ☒ PS ☒ SM ☒ SS

CD-ROM Pioneer DVD-115 16X IDE DVD

Channel: ☒ PM ☒ PS ☒ SM ☒ SS

VGA ATI Radeon

☒ 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-145PB-91 A Rev:00	145W	SFX
	DPS-145PB-101 A Rev:02	145W	SFX
	DPS-145PB-111 A Rev:00	145W	SFX
Seventeam	ST-150MK	150W	SFX
Enlight	SFX-1215A	150W	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
HIPRO	HP-A1463F5 Rev:03	145W	SFX
	HP-146SSG Rev:X01	145W	SFX



## 8.6 MPEG-2 DVD Display Products

### Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000.

CPU Intel Pentium III 1.0GHz ☒ Intel

Memory Buffalo 64MB(Hyundai) Total: 128 MB ☐ PC100 ☒ PC133

HDD Maxtor 93073U6 30.7GB IDE ☒ ATA/66 ☐ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM Creative DVD1242E 12X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA Matrox Millennium G400 Max ☐ Onboard ☒ AGP 2X

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

Mouse Microsoft IntelliMouse Mouse ☐ COM ☒ PS/2

The following DVD play under Windows ME 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 1.0GHz ☒ Intel  
 Memory Buffalo 128MB(Hyundai) Total: 256 MB ☐ PC100 ☒ PC133  
 HDD Fujitsu MPG3307AT 30.7GB IDE ☐ ATA/66 ☒ ATA/100  
 Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
 VGA ASUS AGP-V7700 Deluxe ☐ Onboard ☒ AGP 4X  
 Sound AD1885 AC'97 ☐ PCI Slot:     ☒ On board  
 CD-ROM ASUS DD-E612 12X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS  
 Mouse Microsoft IntelliMouse Mouse ☐ COM ☒ PS/2

Test Item	Result	Remark
<b>FDISK (FAT32)</b>	PASS	
<b>Install Win OS</b>	PASS	
<b>Format FDD</b>	PASS	
<b>Diskcopy</b>	PASS	
<b>Large file Copy (one file over 500MB)</b>	PASS	
<b>Cool boot 2 times under every combination</b>	PASS	
<b>Reboot 2 times under every combination</b>	PASS	
<b>FIC CD-PRO all Application Install &amp; Test</b>	PASS	
<b>CoreTest 92 (Transfer Rate test)</b>	PASS	
<b>Device Management check (No Caution)</b>	PASS	
<b>VGA Resolution/Color change</b>	PASS	
<b>Install Office 2000</b>	PASS	
<b>Auto Shutdown (system power off)</b>	PASS	
<b>Defrag test</b>	PASS	
<b>VCD play (name: <i>Runaway Bride</i> )</b>	PASS	
<b>Power Management</b>	<b>Power button</b>	PASS
	<b>Keyboard Sleep Key</b>	PASS
	<b>Start → Stand By item</b>	PASS
	<b>Time Out</b>	PASS
<b>System Shutdown</b>	<b>Power button (Setting from PM)</b>	PASS
	<b>Start → Shut down item</b>	PASS
<b>WinStone 2001</b>	PASS	38.2
<b>CC WinStone 2001</b>	PASS	43.5
<b>WinBench 99 (BD/BG/HD/HG)</b>	PASS	
<b>3D Mark2001</b>	PASS	2692

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



**9.1.2 Microsoft Windows 2000:****Test Configuration:**

CPU Intel Pentium III 1.0GHz ☒ Intel  
 Memory Buffalo 128MB(SEC) Total: 256 MB ☐ PC100 ☒ PC133  
 HDD IBM DTLA-307060 61.4GB IDE ☐ PIO4 ☐ ATA/66 ☒ ATA/100  
 Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
 VGA ATI Radeon ☐ Onboard ☒ AGP 4X  
 Sound AD1885 AC'97 ☐ PCI\_Slot: \_\_ ☒ On board  
 CD-ROM Creative DVD1242E 12X 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: <i>Runaway Bride</i> )		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 2001		PASS	40.2
CC WinStone 2001		PASS	48.1
3D Mark2001		PASS	2557
WinBench 99 (BD/BG/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 1.0GHz ☒ Intel  
 Memory KingMAX 128MB(KingMAX) Total: 256 MB ☐ PC100 ☒ PC133

**HDD** IBM DTLA-307045 46.1GB IDE ☐PIO4 ☐ATA/66 ☒ATA/100  
Channel: ☒PM ☐PS ☐SM ☐SS  
**VGA** Matrox Millennium G450 ☐Onboard ☒AGP 4X  
**Sound** AD1885 AC'97 ☐PCI\_Slot: \_\_ ☒On board  
**CD-ROM** Panasonic SR-8585B 8X IDE DVD 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 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	
Large file Copy (one file Over 500MB)	PASS	
VCD/DVD play (name: <i>Runaway Bride</i> )	PASS	
PM function by Win NT	PASS	
WinStone 2001	PASS	36.9
CC WinStone 2001	PASS	41.8
WinBench 99 (BD/BG/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
Windows NT Workstation Service Pack	6.0	English	Microsoft	Pass

#### 9.1.4 IBM OS/2 4.0:

##### Test Configuration:

**CPU** Intel Pentium III 1.0GHz ☒Intel  
**Memory** Buffalo 128MB (Hitachi) Total: 256 MB ☐PC100 ☒PC133  
**HDD** Fujitsu MPB3032AT 3.2GB IDE ☐PIO4 ☒ATA/33  
Channel: ☒PM ☐PS ☐SM ☐SS  
**VGA** Matrox Millennium G400 MAX ☒PCI\_Slot: 2 ☐AGP

CD-ROM Acer DVP 1640A 16X IDE DVD

Channel: ☐PM ☐PS ☒SM ☐SS

Mouse Logitech Mouse+ Mouse

☐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

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 1.0GHz

☒Intel

Memory KingSton 64MB (Infineon)

Total: 128 MB ☐PC100 ☒PC133

HDD IBM DTLA-305020 20GB IDE

☐ATA/66 ☒ATA/100

Channel: ☒PM ☐PS ☐SM ☐SS

VGA Matrox Millennium G200 LE

☐Onboard ☒AGP 2X

CD-ROM ASUS CD-S400/A 40X IDE

Channel: ☐PM ☐PS ☒SM ☐SS

Mouse Logitech Mouse+ Mouse

☐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	7.1	English	Pass
Open Linux	2.4	English	Pass

### 9.1.6 Microsoft Windows ME:

#### Test Configuration:

CPU Intel Pentium III 1.0GHz

☒Intel

Memory KingSton 256MB(IBM)

Total: 512 MB ☐PC100 ☒PC133

HDD Maxtor 54098H8 40.9GB IDE

☐PIO4 ☐ATA/66 ☒ATA/100

Channel: ☒PM ☐PS ☐SM ☐SS

VGA ELSA GLADIAC MX

☐Onboard ☒AGP 4X

Sound AD1885 AC'97

☐PCI\_Slot: \_\_. ☒On board

CD-ROM Pioneer DVD-105S 16X IDE DVD

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	
VCD/DVD play (name: <i>Runaway Bride</i> )	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 2001	PASS	41.2
CC WinStone 2001	PASS	42.4
WinBench 99 (BD/BG/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 ME	4.90.3000	English	Microsoft	Pass

### 9.1.7 Microsoft Windows XP/Home Edition:

#### Test Configuration:

CPU Intel Pentium III 1.0GHz

☒ Intel

Memory KingSton 256MB(Hyundai)

Total: 512 MB ☐ PC100 ☒ PC133

HDD IBM IC35L040A 40GB IDE

☐ PIO4 ☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

VGA ELSA GLADIAC MX

☐ Onboard ☒ AGP 4X

Sound AD1885 AC'97

☐ PCI\_Slot: \_\_ ☒ On board

CD-ROM ASUS DVD-E612 12X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Mouse Microsoft IntelliMouse Mouse

☐ COM ☒ PS/2

Test Item	Result	Result
FDISK (NTFS)	PASS	
Install OS	PASS	
Large file Copy from CD/DVD-ROM (one file Over 500MB)	PASS	
Install Office XP	PASS	



Media Player 8.0 (play MIDI/MP3/CD Audio)		PASS	
Defrag test		PASS	
VCD/DVD play (name: Mercury Rising )		PASS	
Power Management (Stand By function)	Power button	PASS	
	Keyboard Sleep Key (98keyboard)	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
S3 (Suspend To Memory)	Power button	PASS	
	Keyboard Sleep Key (98keyboard)	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 (Setting from PM)	PASS	
	Start → Shut down item	PASS	
RTC Alarm to power on system	Power On from S3	PASS	
	Power On from S4	PASS	
	Power On from S5	PASS	
WinStone 2001		PASS	38.2
CC WinStone 2001		PASS	53.3
WinBench 99 V2.0 (BD/BG/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 XP /Home Edition	5.01.2600	English	Microsoft	Pass

## Test Engineer:

BIOS: Benson Shen

OS: Scott Lin

I/O : Brad Su

Audio: Stevent Huang

CPU/Memory: Lion Liou

VGA: Leon Liang

Logo: Joy Tsai

IDE Devices: Scott Lin

Check by: Lion Liou

Ownership: Benson Shen

