

# **FIC FR31 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 1.01	2/06/2001	BIOS update version to VFA42 Add support Intel Celeron 800MHz CPU	
Revision 1.02	10/04/2001	BIOS update version to VFA43 Add support Intel Celeron 900/950/1G/1.1GHz CPU	M99C05-E-026

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Internet  
CD Title Game



## 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** : FR31 PCB Rev 1.3  
**Product Name** : VIA ProSavage PM133 Based Mainboard  
**System BIOS** : Award BIOS Version VFA43  
**PCI IDE** : Internal PCI Mastre dual IDE  
**I/O** : VIA VT686B

## 3. Mainboard CPU Supports:

### Intel :

Intel Processors	Bus	Package	Status
Celeron 300MHz (with 128K cache)	66	PPGA	Pass
Celeron 333MHz	66	PPGA	Pass
Celeron 366MHz	66	PPGA	Pass
Celeron 400MHz	66	PPGA	Pass
Celeron 433MHz	66	PPGA	Pass
Celeron 466MHz	66	PPGA	Pass
Celeron 500MHz	66	PPGA	Pass
Celeron 533MHz	66	PPGA/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 900MHz	100	FC-PGA	Pass
Celeron 950MHz	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 650MHz (Coppermine)	100	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	VIA ProSavage PM133 (VT8605_E+686B_B)
System Cache	128K/256K Pipeline Burst SRAM Built-in CPU
System Memory	Maximum : 1.5GB SDRAM/ VCM-SDRAM 168 pins single RAS and Double RAS DIMM RAM Module
System Slots	1 AGP and 2 PCI and 1 AMR slots
Audio	OnChip VIA VT686B AC'97 Audio on board
IO Corelogic	VIA VT686B Support Normal,EPP,ECP mode and IR interface

### 4.1 Main Functionality :

Num.	M/B function	Result
1	ACPI Ready (under Win 98 SE/Win 2000)	PASS
2	APM 1.2	PASS
3	Wake On LAN / Wake On Ring	PASS
4	RTC Alarm Function	PASS
5	H/W Monitoring (+/-12V,+/-5V,Vccp,+5VR)	PASS
6	Audio Alert II	PASS
7	Logo Genie	PASS
8	BIOS Easy Kit	PASS
9	Overclock Partner	PASS
10	BIOS Flash Protect (Guardian feature)	PASS
11	Ultra ATA-33/66/100 Enhanced IDE Interface	PASS
12	Virtual Channel Memory (VCM) SDRAM	PASS
13	CPU with DRAM Asynchronous interface	PASS
14	USB Function	PASS
15	Power Failure feature	PASS
16	Year 2000 Compliance	PASS

### 4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	VIA IDE Bus Master for Win 98	2.1.49	PASS
2	VIA IDE Bus Master for Win NT	2.1.49	PASS
3	VIA AGP VxD Utilities for Win 95/98	4.03	PASS
4	VIA INF Driver	1.02	PASS
5	VIA IRQ Routing Miniport driver	1.30	PASS
6	VIA ProSavage PM133 VGA driver for Win 9x	4.12.01.1012	PASS



7	VIA ProSavage PM133 VGA driver for Win ME	4.12.02.1012	PASS
8	VIA ProSavage PM133 VGA driver for Win NT	5.12.01.1001	PASS
9	VIA ProSavage PM133 VGA driver for Win 2000	4.1024.1010	PASS
10	Onboard VIA VT686B Audio driver for Win 9x	1.11C	PASS
11	Onboard VIA VT686B Audio driver for Win NT	1.10	PASS
12	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
Sleep Switch	SP_SW	Open	Pass
IDE LED Connector	IDE_LED	Open	Pass
Reset Switch	RST	Open	Pass
Remote Power Switch	RPW_SW	Open	Pass
Sleep LED	SP_LED	Open	Pass
CPU FAN Connector	J2	Open	Pass
Chassis FAN Connector	J6	Open	Pass
CPU Clock Rate	SW1-1~4	On,Off,Off,On	Pass
Clear CMOS	SW1-5	Off	Pass
Clear Password Switch	SW1-6	Off	Pass
System Bus Clock	J3/J4/J5	2-3/1-2/1-2	Pass
LAN Wake Up	WOL	Open	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 686B AC'97 Audio
<b>Memory</b> : SDRAM 256MB (128MB x 2)	<b>Mouse</b> : Microsoft PS/2 mouse
<b>HDD (ATA/66)</b> : Quantum Fireball lct 15GB	<b>PowerSupply</b> : Seventeam ST-150MK 150W
<b>VGA</b> : VIA ProSavage PM133 onboard	<b>O.S. Environment</b> : Windows 98 SE
<b>DVD-ROM</b> : Toshiba SD-M1202 4.8X	





NO.	Over clock level		Test Result				
	FSB	CPU ID	Cool boot	Install OS	PM	Winstone 99	3D Mark2000
1	138MHz	897MHz	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> : Intel 82559 LAN card
<b>Memory</b> : SDRAM 192MB (64MB x 3)	<b>Mouse</b> : Microsoft PS/2 mouse
<b>HDD 1</b> : Maxtor 90871U2 8.7GB	<b>PowerSupply</b> : Hipro HP-200NLXAA 200W
<b>HDD2</b> : Maxtor 92049U4 20.4GB	<b>O.S. Environment:</b> Windows 2000
<b>DVD-ROM1</b> : Creative DVD8400E 8X	
<b>DVD-ROM2</b> : Toshiba SD-M1202 4.8X	
<b>VGA</b> : VIA ProSavage PM133 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 800	<b>FDD</b> : NEC FD1231T 1.44MB
<b>Cache Memory</b> : 256 K	<b>PowerSupply</b> : Enlight SI-X145M3 145W SFX
<b>Memory</b> : SDRAM 192MB (64MB x 3)	
<b>VGA</b> : VIA ProSavage PM133 onboard	

Test Result	
<b>Cool Boot (over 1500 times)</b>	Pass

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

Software Name	Duration	Result
Winstone 99 Under WIN98 SE	24hr.	Pass
Test Configurations for Win 98	Intel Pentium III 866MHz IBM DPTA-372730 Ultra DMA66 27.3GB HDD Buffalo 128MB SDRAM Memory.(Hitachi) VIA ProSavage PM133 Onboard AGP	
CC Winstone 2000 Under WIN2000	24hr.	Pass



Test Configurations for Win 2000	Intel Pentium III 866MHz IBM DPTA-372730 Ultra DMA66 27.3GB HDD Buffalo 128MB SDRAM Memory.(NEC) VIA ProSavage PM133 Onboard AGP	
Winstone 99 Under Windows NT 4.0	24hr.	<b><i>Pass</i></b>
Test Configurations for Windows NT 4.0	Intel Pentium III 866MHz IBM DPTA-372730 Ultra DMA66 27.3GB HDD SIEMENS 128MB SDRAM Memory. VIA ProSavage PM133 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 Maxtor 91024U4 10.2GB IDE ☒ PIO4 ☒ UDMA/66  
Channel: ☒ PM ☒ PS ☒ SM ☒ SS

VGA VIA ProSavage PM133 ☒ Onboard ☒ AGP 4X

CD-ROM Pioneer DVD-114 10X IDE DVD Channel: ☒ PM ☒ PS ☒ SM ☒ SS

Sound VIA VT686B ☒ ISA\_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	

### 8.1.3 VCM RAM Module (VC133)

Vender	IC Part No.	ECC	Size	Side	Module No.
Apacer	D4565821G5-A75-9JF	No	64MB	S	71.63384.614
	D4565821G5-A75-9JF	No	128MB	D	71.73384.614

## 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 1GHz ☒ Intel

Memory Buffalo 64MB(GM72V66841ET7K) Total: 192MB ☐ PC100 ☒ PC133



HDD IBM DTLA-307060 60GB

UDMA/66 ☒ UDMA/100Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM Creative DVD1242E 12X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Sound VIA VT686B

ISA\_Slot: ☐ Onboard

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 128GL	Rage Fury	4.12.6281
	Rage pro Turbo	XPRT 98	4.12.2632
	Rage 128GL	All-In-Wonder 128	4.12.6281
	Rage 128GL	XPRT 128	4.12.6281
	Rage 128VR	XPRT 2000	4.12.6281
	Rage XL	Rage XL	4.12.2632
ASUS	Riva TNT	AGP-V3400TNT	4.12.01.0618
	Riva GeForce 256	AGP-V6600	4.12.01.0618
	Riva TNT2 Pro	AGP-V3800 Pro	4.12.01.0618
	GeForce256 DDR	AGP-V6800	4.12.01.0618
	GeForce2 MX	AGP-V7100	4.12.01.0618
	Riva GeForce2 GTS	AGP-V7700	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	Intel i740	Stealth II G460	4.10.01.1400
	Voodoo Banshee	Monster Fusion	4.10.01.0213
Creative	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra	4.12.01.2303
Top Solution	SiS 300 + 301	VR300DH	4.12.01.1040
3D labs	Glint R3	Oxygen VX1	4.12.01.2107
Gigabyte	S3 Savage 4	GA-650	4.11.01.8006
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	Riva TNT2 Vanta	Cardexpert TNT2 Vanta	4.12.01.0618
	GeForce2 MX	GeForce2 MX	4.12.01.0618
	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
	SiS 6326 DVD	Winfast 3D S700	4.10.01.0905
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
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Diamond	Riva TNT2 Ultra	Viper V770 Ultra	4.12.01.0368
	S3 Savage 2000	Viper II (mode Z200)	4.12.01.9007
Leadtek	Riva TNT2 M64	WinFast 3D S325	4.11.01.0240
	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
Cardex	S3 Savage 2000	Cardexpert Savage 2000	4.11.01.9001
Hercules	Riva GeForce 256	3D Prophet DDR-DVI	4.12.01.0522
Creative	Savage 4	3D Blaster Savage 4	4.11.01.2104
	Riva TNT2 M64	Riva TNT2 Value	4.12.01.2303
	Riva Geforce 256	3D Blaster GeForce256	4.12.01.2303
	GeForce2 GTS	3D Blaster Geforce2 GTS	4.12.01.2303
ELSA	Riva TNT2	ERAZOR III	4.12.01.0204
	Riva TNT2	Synergy II	4.12.01.0204
	Savage 4	Winner II	4.11.01.0310
	Riva TNT2 M64	ERAZOR III LT	4.12.01.0204
	Riva TNT2 Vanta	ERAZOR III LT-16	4.12.01.0204
	Riva TNT2 Pro	ERAZOR III Pro	4.12.01.0204
	Riva Geforce2 GTS	GLADIAC	4.12.01.0204
	Riva GeForce 256 DDR	ERAZOR X <sup>2</sup>	4.12.01.0204
	GeForce2 MX	GLADIAC MX	4.12.01.0204

### 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 933MHz ☒ Intel  
Memory Buffalo 128MB (5264805FTT75) Total: 256 MB ☐ PC100 ☒ PC133  
VGA VIA ProSavage PM133 ☒ 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 VIA VT686B ☐ ISA\_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 /AMR Modem Products

### Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222A .  
CPU Intel Pentium III 800MHz ☒ Intel  
Memory Buffalo 128MB(5264805FTT75) Total: 256 MB ☐ PC100 ☒ PC133  
VGA VIA ProSavage PM133 ☒ Onboard ☐ AGP 4X  
HDD IBM DTLA-305020 20.5GB IDE ☐ UDMA/66 ☒ UDMA/100  
Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
CD-ROM Pioneer DVD-115 16X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS  
Sound VIA VT686B ☐ ISA\_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
TAICOM	MP56A-FCC 56K BPS FCC Fax/Modem	AMR



Askey	1456VQH82 56K BPS FCC Fax/Modem	AMR
GVC	56K FLEX ASVD	External
Motorola	VoiceSURFR 56K	External
Diamond	Supra MAX 56K ITU & flex	Internal/PCI
CIS	PSL 56K data/Fax/RTAP	Internal/PCI
HSP	V1456VQH-P1 56Kbps PCI	Internal/PCI
GVC	F-1156IV/R2 KB3497	Internal/PCI
Turbo	Motorola SM56 Voice PCI	Internal/PCI
Askey	1456VQH75	Internal/PCI
Archtek	A12PW19085A 56Kbps	Internal/PCI

## 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 933MHz ☒ Intel

Memory Buffalo 128MB (5264805FTT75) Total: 256 MB ☒ PC100 ☒ PC133

VGA VIA ProSavage PM133 ☒ Onboard ☒ AGP 4X

SCSI AHA -2940U2W Ultra 2 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	Quantum	Atlas III	Ultra Wide SCSI HDD 9.1GB
		Atlas V	Ultra Wide SCSI HDD 18GB
		Atlas 10K	Ultra2 SCSI HDD 18.2GB
	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
	IBM	DMVS IEC-950	Ultra2 Wide SCSI HDD 36GB
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 Hyundai 128MB(HY57V658020B TC-75) Total: 384 MB ☒ PC100 ☒ PC133

CD-ROM Pioneer DVD-105S 16X IDE DVD Channel: ☒ PM ☒ PS ☒ SM ☒ SS

VGA VIA ProSavage PM133 ☒ Onboard ☒ AGP 4X

Sound VIA VT686B ☒ ISA 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 VIA IDE Bus Master 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	AC310200	Ultra DMA 66	10.2GB
	AC313000	Ultra DMA 66	13GB
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 CX	Ultra DMA 66	10GB

	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-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	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 VIA ProSavage PM133 ☒ Onboard ☐ AGP 4X

HDD Quantum Fireball CX 10.2GB IDE ☐ PIO4 ☒ UDMA/66

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM BTC BCD 48SB 48X IDE Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Sound VIA VT686B ☐ ISA\_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 Windows 98/NT with VIA IDE Bus Master 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 VIA ProSavage PM133 ☒ Onboard ☐ AGP 4X  
 Sound VIA VT686B ☐ ISA Slot: ☒ On board  
 Mouse Logitech Trackman Marble Mouse ☐ COM ☒ PS/2

The following IDE devices test CD Winbench 99 and play VCD/DVD over night under windows 98 with VIA IDE Bus Master 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-FX320S	ATAPI CD-ROM 32X Mode4
	CRMC-FX4820T	ATAPI CD-ROM 48X UDMA2
LITE-ON	LTN-301	ATAPI CD-ROM 32X UDMA2
	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-711	ATAPI CD-ROM 32X UDMA2
	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

### 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 VIA ProSavage PM133 ☒ Onboard ☒ AGP 4X

HDD Seagate ST-317242A 17.2GB IDE ☒ PIO4 ☒ UDMA/66

Channel: ☒ PM ☒ PS ☒ SM ☒ SS

CD-ROM Acer 650P 50X IDE

Channel: ☒ PM ☒ PS ☒ SM ☒ SS

Sound VIA VT686B

☒ ISA\_Slot:   , ☒ On board

Mouse Microsoft IntelliMouse Mouse

☒ 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 VIA IDE Bus Master drivers installed .

Vendor	Product Description
Panasonic	LKM-F434-105 LS-120
Zip	Z250ATAPI ZIP device 250MB
	Z100iDE 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 866MHz ☒ Intel

Memory KingMAX 128MB (KSV884T4A1A-07) Total: 256 MB ☒ PC100 ☒ PC133

HDD Maxtor 91360U4 13.6GB IDE ☒ PIO4 ☒ UDMA/66

Channel: ☒ PM ☒ PS ☒ SM ☒ SS

**CD-ROM** Creative DVD1242E 12X IDE DVD      Channel: ☐PM ☐PS ☒SM ☐SS  
**VGA** VIA ProSavage PM133      ☒Onboard ☐AGP 4X  
**Sound** VIA VT686B      ☐ISA\_Slot: \_\_ ☒On board  
**Mouse** Logitech TrackMan Marble Mouse      ☐COM ☒PS/2

The following Parallel/Serial devices be tested under Windows 98 SE with VIA IDE Bus Master drivers installed.

Vendor	Product Description	Bus I/F
HP	HP LaserJet 6P support IR Interface	LPT/IR
Mustek	Mustek 1200CP Scanner	LPT
Parallel	DirectParallel universal cable	LPT
iomega	Parallel ZIP 250	LPT
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

Channel: ☒PM ☐PS ☐SM ☐SS

CD-ROM BTC BCD 48SB 48X IDE

Channel: ☐PM ☐PS ☒SM ☐SS

VGA VIA ProSavage PM133

☒Onboard ☐AGP 4X

Sound VIA VT686B

☐ISA\_Slot: \_\_ ☒On board

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 VIA ProSavage PM133 ☒ Onboard ☐ AGP 4X

Sound VIA VT686B ☐ ISA\_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 VIA ProSavage PM133 ☒ Onboard ☐ AGP 4X  
 Sound VIA VT686B ☐ ISA\_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 800MHz ☒ Intel  
 Memory V-TEC 64MB(GM72V66841ET75) Total: 256 MB ☐ PC100 ☒ PC133  
 HDD IBM DTLA-305020 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 VIA ProSavage PM133 ☒ Onboard ☐ AGP 4X  
 Sound VIA VT686B ☐ ISA\_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 866MHz ☒ Intel

Memory Hyundai 128MB(HY57V658020B TC-75) Total: 256 MB ☐ PC100 ☒ PC133

HDD Seagate ST-317242A 17.2GB IDE ☐ PIO4 ☒ UDMA/66

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM Hitachi GD-2500 6X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA VIA ProSavage PM133

☒ Onboard ☐ AGP 4X

Sound VIA VT686B

☐ ISA\_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 95/98/98 SE:

### Test Configuration:

CPU Intel Pentium III 866MHz ☒ Intel

Memory KingSton 128MB(HYB39S64800BT-7.5) Total: 384 MB ☐ PC100 ☒ PC133

HDD Maxtor 54098H8 40.9GB IDE ☐ UDMA/66 ☒ UDMA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS





VGA VIA ProSavage PM133

☒ Onboard ☐ AGP 4X

Sound VIA VT686B

☐ ISA\_Slot: \_\_, ☒ On board

CD-ROM Panasonic SR-8585B 8X 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</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>80082</b>
<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>LS-120/ZIP install &amp; working</b>	PASS	
<b>Year 2000 test</b>	PASS	
<b>VCD play (name: Mercury Rising )</b>	PASS	
<b>GAME play (name: Need For Speed III )</b>	PASS	
<b>PM function by WIN98 (H/W )</b>	PASS	
<b>WinStone 99 (Business WS99)</b>	PASS	<b>28.2</b>
<b>CC WinStone 2000</b>	PASS	<b>33.8</b>
<b>WinBench 99 (BD/BG/CPU/FPU/HD/HG)</b>	PASS	
<b>3D Winbench 99 (3D Quality/3D Winmark)</b>	PASS	<b>19.7</b>

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 95 OSR2.5	950C	English	Microsoft	Pass
MS Windows 98	1998	English	Microsoft	Pass
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
MS Windows 98 OPK	4.10.1998	German	Microsoft	Pass
	4.10.1998	Chinese(simp)	Microsoft	Pass

### 9.1.2 Microsoft Windows 2000:

## Test Configuration:

**CPU** Intel Pentium III 800MHz ☒ Intel  
**Memory** Micron 128MB(MT48LC8M8A2-75B) Total: 384 MB ☐ PC100 ☒ PC133  
**HDD** WD AC313000 13GB IDE ☐ PIO4 ☐ UDMA/66 ☒ UDMA/100  
Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
**VGA** VIA ProSavage PM133 ☒ Onboard ☐ AGP 4X  
**Sound** VIA VT686B ☐ ISA\_Slot: \_\_ ☒ On board  
**CD-ROM** Pioneer DVD-115 16X 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
	Sleep button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
Hibernate (Suspend To Disk)	Power button	PASS
	Sleep button	PASS
	Start → Hibernate item	PASS
	Time Out	PASS
System Shutdown	Power button	PASS
	Sleep button	PASS
	Start → Shut down item	PASS
WinStone 99 (Business WS99)	PASS	30.9/37.4
CC WinStone 2000	PASS	30.2
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:

## Test Configuration:

**CPU** Intel Pentium III 933MHz ☒ Intel  
**Memory** KingMAX 128MB(KSV884T4A1A-06) Total: 384 MB ☐ PC100 ☒ PC133  
**HDD** IBM DTLA-307020 20GB IDE ☐ PIO4 ☐ UDMA/66 ☒ UDMA/100  
Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
**VGA** VIA ProSavage PM133 ☒ Onboard ☐ AGP 4X  
**Sound** VIA VT686B ☐ ISA\_Slot: \_\_ ☒ On board  
**CD-ROM** Pioneer DVD-105S 16X 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 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	42/50.5
CC WinStone 2000	PASS	44.9
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

### 9.1.4 IBM OS/2 4.0:

## Test Configuration:

**CPU** Intel Pentium III 800MHz ☒ Intel  
**Memory** KingMAX 64MB (KSV884T4A1A-07) Total: 128 MB ☐ PC100 ☒ PC133  
**HDD** Fujitsu MPB3032AT 3.2GB IDE ☐ PIO4 ☒ UDMA/33  
Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
**VGA** S3 Trio64+ ☒ PCI\_Slot: \_2\_ ☐ AGP  
**CD-ROM** Mitsumi CRMC-FX4820T 48X IDE 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 866MHz ☒ Intel  
**Memory** KingMAX 128MB (KSV884T4A1A-07) Total: 256 MB ☐ PC100 ☒ PC133  
**HDD** Quantum Fireball LM 20.5GB IDE ☐ PIO4 ☒ UDMA/66  
Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
**VGA** VIA ProSavage PM133 ☒ Onboard ☐ AGP 4X  
**CD-ROM** SONY DDU-220E 5X IDE DVD 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	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** IBM DTLA-305020 20GB IDE ☐ PIO4 ☐ UDMA/66 ☒ UDMA/100  
Channel: ☒ PM ☐ PS ☐ SM ☐ SS  
**VGA** VIA ProSavage PM133 ☒ Onboard ☐ AGP 4X  
**Sound** VIA VT686B ☐ ISA\_Slot: ☒ On board  
**CD-ROM** Mitsumi CRMC-FX4820T 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
	Sleep button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
Hibernate (Suspend To Disk)	Power button	PASS
	Sleep button	PASS
	Start → Hibernate item	PASS
	Time Out	PASS
	Power button	PASS
System Shutdown	Sleep 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	28.4
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	PASS	
3D Winbench 2000 (3D Quality/3D Winmark)	PASS	19.9

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

## 9.2 Software Applications

Item	Descriptions	Version	O.S.	Language	Status
Suites	MS Office 97 for Windows	7.0	Windows 95	English	Pass
	MS Office 2000		Windows 95/98	Chinese	Pass
		9.0.2720	Windows 95/98	English	Pass
Communication	BITWare	3.30.10	Windows 95/98	English	Pass
	WinFAX Pro for Win 95	4.0	Windows 95/98	English	Pass
	LapLink	7.0A	Windows 95	English	Pass
	Norton Anywhere	1.0	Windows	English	Pass
Database	FoxPro Microsoft	6.0	Windows	English	Pass
Graphics	Corel Draw	9.0	Windows 95	English	Pass
	MS PowerPoint	4.0	Windows	English	Pass
	Photo Shop Pro	3.05	Windows 95	English	Pass
Presentation Program	MS PowerPoint	7.0	Windows 95	English	Pass
	MS Visual Basic	4.0	Windows 95	English	Pass
	MS Visual C++	6.0	Windows 95/98	English	Pass
	Borland Delphi	4.0	Windows 95	English	Pass
Diagnostic Utility	Bapco 4.0 for Win NT	4.0	Windows NT	English	Pass
	ZD 3D Winbench 99	1.2	Windows 95/98	English	Pass
	ZD Winstone 99	1.2	Windows 95/98	English	Pass
	QAPLus	5.52	DOS	English	Pass
	AMIDiag	6.0	DOS	English	Pass
	Landmark(Speedcom)	2.0	DOS	English	Pass
	Check IT Pro	5.01	Windows 95/98	English	Pass
	CheckIt 98		Windows 95/98	English	Pass
Tools	Norton Utility 2000		Windows 98	English	Pass
	Norton Ghost 2000	6.0	DOS, Win 9X	English	Pass
	PartitionMagic 4.0	4.0	DOS, Win 9X	English	Pass
Scan	PC-cillin 98 Plus	4.1	Windows 95/98	English	Pass
	Norton Antivirus	5.0	Windows 95/98	English	Pass
Internet	Netscape	4.6	Windows 95	English	Pass
	Internet Explore	4.0	Windows 95/98	English	Pass
		5.0	Windows 95/98	English	Pass
CD Title Game	3D Vltra Pin Ball	1.0	Windows 95	English	Pass
	Duke Nukem 3D	1.0	DOS	English	Pass
	Mech Warrior2	1.0	Windows 95	English	Pass
	AH-64D longbow	1.0	DOS	English	Pass
	NFL Football Trivia Challenge	1.0	DOS	English	Pass
	Wing Commander III	4.0	DOS	English	Pass
	Poker Cowboy Casino MPEG Version	1.0	Window 95	English	Pass
	MDK (Exclusive North American Version)	1.0	Window 95	English	Pass
	Master of Orion II Battle at Antares	1.0	Window 95	English	Pass
	The Lion King	1.0	Window 95	English	Pass
	DIABLO BLIZZARD (CD)		Win95 / NT4.0	English	Pass



WARCRAFT II TIDES OF DARKNESS		DOS/WIN95	English	Pass
DOOM II	1.0	Window 95	English	Pass
War Wind		Window 95	English	Pass
Magic 2 Carpet		Window 95	English	Pass
YAMARAJA		Window 95	English	Pass
TOMB RAIDER II		Window 95	English	Pass
Lands of Lore II		Window 95	English	Pass
The Magic School Bus			English	Pass
Flight Simulator 98		Window 95	English	Pass
Dagger fall		Window 95	English	Pass
Quake II		Window 95	English	Pass
Test Drive 4		Window 95	English	Pass
AGE of EMPIRES		Window 95	English	Pass
Mech Warrior 2 Mercenaries			English	Pass
Blood & Magic		DOS/WIN95	English	Pass
Wing Commander III		DOS/WIN95	English	Pass
Wing Commander IV		Window 95	English	Pass
Descent II			English	Pass
TOMB Raider III		Window 95/98	English	Pass
AGE of EMPIRES(Expansion)		Window 95/98	English	Pass
Moto Racer 2		Window 95/98	English	Pass
Need for Speed III		Window 95/98	English	Pass
Klingon Honor Gurd		Window 95/98	English	Pass
F-15		Window 95/98	English	Pass
SIM City 3000		Window 95/98	English	Pass
Baldur's Gate		Window 95/98	English	Pass
STAR WARS ROGUE SQUADRON 3D		Window 95/98	English	Pass
X-WING COLLECTOR SERIES		Window 95/98	English	Pass
TUOK SEED OF EV 2		Window 95/98	English	Pass
Lands of Lore III		Window 95/98	English	Pass
Popvlov		Window 95/98	English	Pass
Need For Speed -High Stakes		Window 95/98	English	Pass
Civilization		Window 95/98	English	Pass
DESCENT III		Window 95/98	English	Pass
Starcraft		Window 95/98	English	Pass
Starcraft – Expansion Set(Brood War)		Window 95/98	English	Pass
TIBERIAN SUN		Window 95/98	English	Pass
Flight Unlimited III		Window 95/98	English	Pass
Black Moon Chronicles		Window 95/98	English	Pass
Unreal – Return to NA Pali		Window 95/98	English	Pass
Discworld NOIR		Window 95/98	English	Pass
Return to Krondor		Window 95/98	English	Pass
DRAKAN – Order of the Flame		Window 95/98	English	Pass
Outcast		Window 95/98	English	Pass
Age of Empires II		Window 95/98	English	Pass
Might and Magic VII – For Blood and Honor		Window 95/98	English	Pass
TOMB RAIDER 4		Window 95/98	English	Pass



	QUAKE III – ARENA		Window 98	English	Pass
	Final Fantasy VIII		Window 98	English	Pass
	DELTA FORCE II		Window 98	English	Pass
	FIFA 2000		Window 98	English	Pass
	TRIGGER		Window 98	English	Pass
	Need For Speed V – Porsche 2000		Window 98	English	Pass

**Test Engineer:**BIOS: Benson ShenOS: Scott LinI/O : Peter ChurgAudio: Brad SuCPU/Memory: Leon LiangVGA: Lion LiouLogo: Joy TsaiIDE Devices: Scott LinCheck by: Lion LiouOwnership: Benson Shen



