

FIC FA33 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

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BIOS Version: **VAD402**

Supervisor	Tester

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Revision History

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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 : FA33 PCB Rev 2.1
Product Name : VIA Apollo pro 133A Based Mainboard
System BIOS : Award BIOS Version VAD402
PCI IDE : Internal PCI Mastre dual IDE
I/O : VIA VT82C686B

3. Mainboard CPU Supports:

Intel :

Intel Processors	Bus	Package	Status
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
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

4 System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	VIA Apollo pro 133A (694X_E+686B_B)
System Cache	128K/256K Pipeline Burst SRAM Built-in CPU
System Memory	Maximum : 1GB SDRAM
	168 pins single RAS and Double RAS DIMM RAM Module
System Slots	3 PCI and 1 CNR 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/ME/Win 2000)	PASS
2	APM 1.2	PASS
3	Wake On LAN / Wake On Ring	PASS
4	RTC Alarm Function	PASS
5	Ultra ATA-33/66/100 Enhanced IDE Interface	PASS
6	CPU with DRAM Asynchronous interface	PASS
7	USB Function	PASS
8	Power Failure feature	PASS
9	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	Onboard VIA VT686B Audio driver for Win 9x/ME	1.20a	PASS
7	Onboard VIA VT686B Audio driver for Win NT	1.20a	PASS
8	Award BIOS Flash ROM Utilities	7.79	PASS

5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPEAKER	Open	Pass
Power LED	POWER LED	Open	Pass
Sleep Button	Green Switch	Open	Pass
IDE LED	IDE Activity LED	Open	Pass
Reset Button	Reset Switch	Open	Pass
Remote Power Button	PWR BTN	Open	Pass
CPU FAN Connector	CPU FAN	Open	Pass
Chassis FAN Connector	System FAN	Open	Pass
CPU Frequency Rate	JP2	On,Off,On,Off	Pass
Clear CMOS	JP1	1-2	Pass
System Bus Clock	JP3,JP4	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	
CPU : Intel P-III 866	FDD : NEC FD1231T 1.44MB
Cache Memory : 256 K	Audio : Onboard 686B AC'97 Audio
Memory : SDRAM 128MB (64MB x 2)	Mouse : Microsoft PS/2 mouse
HDD (ATA/66) : Seagate ST313032A 13GB	PowerSupply : HIPRO HP-1463F5 150W SFX
VGA : ATI Xpert 2000	O.S. Environment: Windows ME
DVD-ROM : Toshiba SD-M1202 4.8X	

NO.	Over clock level		Test Result				
	FSB	CPU ID	Cool boot	Install OS	PM	Winstone 99	3D Mark2000
1	140MHz	910MHz	Pass	Pass	Pass	Pass	Pass

6.2 PCB Cool Boot Test: (1days)

System Configuration	
CPU : Intel P-III 1GHz	FDD : NEC FD1231T 1.44MB
Cache Memory : 256 K	PowerSupply : Enlight SFX-1215A 145W SFX
Memory : SDRAM 256MB (128MB x 3)	
VGA : ATI Xpert 2000	

Test Result	
Cool Boot (over 1500 times)	Pass

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

Software Name	Duration	Result
Winstone 99 Under WIN98 SE	12hr.	Pass
Test Configurations for Win 98	Intel Celeron 766MHz WD AC313000 Ultra DMA66 13GB HDD Buffalo 128MB SDRAM Memory.(Hitachi) VIA PLE133 Onboard AGP	
Winstone 99 Under WIN2000	12hr.	Pass

Test Configurations for Win 2000	Intel Pentium III 800MHz Maxtor 91021U2 Ultra DMA66 10.2GB HDD KingSton 256MB SDRAM Memory.(IBM) VIA PLE133 Onboard AGP
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8. Hardware Compatibility Test Suite

8.1 Memory

Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222A .

☒ Win NT 4.0 + SP6☒ Win 2000 Ver: 5.00.2195 .

CPU Intel Pentium III 850MHz (Bus clock 100MHz) ☒ Intel
Intel Pentium III 1GHz (Bus clock 133MHz)

HDD Seagate ST330631A 30.6GB **•UDMA/66** ☒UDMA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

VGA YUAN 3D Xtreme2

PCI_Slot:____. ☒ AGP 2X

CD-ROM ASUS DVDE608 8X IDE DVD

Channel: ☐PM ☐PS ☒SM ☐SS

Sound VIA VT686B

ISA_Slot: . ☒ On board

Mouse Microsoft IntelliMouse PS/2 Mouse

ÿCOM ☒ **PS/2**

The following SDRAM module test Winstone 99 V1.3 under OS 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.
NEC	D4564841G5-A80-9JF	Yes	128MB	D	BUFFALO VSJ-ED128M2
Hyundia	HY57V658020B-10P	No	128MB	D	VSJ-D128M2
SIMONS	D45128163G5-A10B-9JF	No	64MB	S	
KingSton	PTT3S128081T-8	No	128MB	S	DT100128M8-T01151
	TC59SM716FT-80	No	64MB	S	KGM100X64C2/64 (Toshiba)
SIEMENS	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	
Apacer	GM72V66841XT7J	No	64MB	S	71.63320.065 (HYUNDAI)

	GM72V66841ET7K	No	128MB	D	71.73323.065 (HYUNDAI)
KingMax	KSV884T4A1A-08A	No	64MB	S	MPC643S-882
	KSV884T4A1A-08A	No	128MB	D	MPCA83S-882
Winbond	W981216AH-75	No	64MB	S	VSJ-S64M2

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
MICRON	MT48LC8M8A2-75B	No	64MB	S	MT8LSDT864AG-133B4
	MT48LC8M8A2-75B	Yes	64MB	S	MT9LSDT872AG-133B4
	MT48LC8M8A2-75B	No	128MB	D	MT16LSDT1664AG-133B4
Mitsubishi	M2V64S30BTP	No	64MB	S	MH8S64BALD-6
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
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 (Hyundai)
	AM2V648C2T75	No	128MB	D	71.73350.034
Buffalo	GM72V66841ET7K	No	64MB	S	VS133-64MB (Hyundai)
	W981208ah-75	No	128MB	S	VS133-128M (Winbond)
	GM72V66841ET7K	No	128MB	D	VS133-128M (Hyundai)
	K4S6408320-TC1H	No	128MB	D	VS133-128M (SEC)
V-TEC	GM72V66841ET75	No	64MB	S	
SIMONS	D45128841G5-A80-9JF	No	128MB	S	
KingSton	HYB39S64800BT-7.5	No	64MB	S	KVR-PC133/64
	TC59SM708FT-75	No	128MB	S	KGM133X64C3/128
	HYB39S64800BT-7.5	No	128MB	D	KVR-PC133/128
	0312804CT3A-75A	No	256MB	D	KVR-PC133/256
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

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 866MHz ☒ Intel
 Memory Buffalo 128MB(W981208AH-75) Total: 256 MB ☐ PC100 ☒ PC133
 HDD Maxtor 54098U8 40GB ☐ UDMA/66 ☒ UDMA/100
 Channel: ☒ PM ☐ PS ☐ SM ☐ SS
 CD-ROM SONY CDU4811 48X 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 200 V1.0 /3Dmark 2001/Final Reality 1.01 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
ASUS	GeForce256	AGP-V6800	4.12.01.0631
	Riva Geforce2 GTS	AGP-V7700 Deluxe (TV out)	4.12.01.0631
Leadtek	GeForce2 MX	Winfast GeForce2 MX	4.12.01.0648
Creative	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra	4.12.01.0650
YUAN	Riva TNT2 M64	3D Xtreme2	4.12.01.0368
Cardex	S3 Savage 2000	Cardexpert Savage 2000	4.12.01.9015
ELSA	Riva TNT2	ERAZOR III	4.12.01.0667
	Riva GeForce 256	ERAZOR X	4.12.01.0667
	Riva TNT2 Pro	ERAZOR III Pro	4.12.01.0667
	Riva TNT2 Vanta	ERAZOR III LT-16	4.12.01.0667
	Riva GeForce 256 DDR	ERAZOR X ²	4.12.01.0667
	GeForce2 MX	GLADIAC MX	4.12.01.0667
	Geforce2 Ultra	GLADIAC Ultra	4.12.01.0667

8.2.1.2 4X AGP Display Adapter Products

Vendor	Model Name	Product Description	Driver version
Matrox	MGA-G400	Millennium G400 MAX	4.12.01.1710
	MGA-G450	Millennium G450	4.12.01.1710
ATI	Rage 128 Pro	XPRT 2000 Pro	4.13.7078
	Radeon	Radeon	4.13.7072

8.2.1.3 PCI Display Adapter Products

Vendor	VGA Chip	Product Description
3dfx	Voodoo 3-3000	3dfx Voodoo 3-3000 PCI
	Voodoo 3-3000	3dfx Voodoo 3-3000 PCI
Creative	S3 Savage 4	3D Blaster Savage 4

ASUS	Riva TNT2	PCI-V3800
Cardex	SiS 6326	Cardexpert 6326
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 850MHz ☒ Intel
 Memory SIEMENS 128MB(HYB39S64800CT-8) Total: 128 MB ☒ PC66 ☒ PC100
 VGA ATI Xpert 2000 ☒ PCI_Slot: ____ . ☒ AGP 4X
 HDD Seagate ST392IBM04LW 20.4GB ☒ Ultra SCSI ☒ Ultra Wide
 CD-ROM TEAC CD-532S 32X SCSI ☒ 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-2940U2W	Adaptec AHA-2940U2W PCI SCSI card	PCI

8.2.3 FAX /AMR Modem Products

Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000 .
 CPU Intel Pentium III 866MHz ☒ Intel

Memory Micron 64MB(MT48LC8M8A2-75B) **Total: 128 MB** ☒PC100 ☒PC133
VGA Matrox Millennium G400 MAX **PCI_Slot:** ___. ☒AGP 4X
HDD IBM DJNA-371350 13.5GB IDE **UDMA/33** ☒UDMA/66
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 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

8.3 Storage

8.3.1 IDE Fixed Disk Drive Products

Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222A .
☒ Win 2000 Ver: 5.00.2195 .
CPU Intel Pentium III 850MHz ☒Intel
Memory KingSton 64MB (TC59SM716FT-80) **Total: 128 MB** ☒PC66 ☒PC100
CD-ROM Creative CD5220E 52X IDE CD-ROM **Channel:** ☒PM ☒PS ☒SM ☒SS
VGA ASUS AGP-V7700 **PCI_Slot:** ___. ☒AGP 2X
Sound VIA VT686B **ISA_Slot:** ___. ☒On board
Mouse Logitech First Mouse+ Mouse **COM** ☒PS/2

The following IDE devices test WinStone 99 under Windows 98/2000 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.

6.3.1.1 IDE Ultra DMA/66

Vendor	Model Name	Mode	Capacity
WD	AC313000	Ultra ATA 66	13GB
	AC205B	Ultra ATA 66	20.5GB
Seagate	ST-317242A	Ultra ATA 66	17.2GB
	ST-320423A	Ultra ATA 66	20.4GB
Fujitsu	MPE3204AT	Ultra ATA 66	20.4GB
IBM	DPTA-353750	Ultra ATA 66	37.5GB
Maxtor	92040U6	Ultra ATA 66	20GB

8.3.1.2 IDE Ultra DMA/100

Vendor	Model Name	Mode	Capacity
IBM	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	53073H6	Ultra ATA 100	30.6GB
	54098H8	Ultra ATA 100	40.9GB
	98196H8	Ultra ATA 100	80GB
Seagate	Barracuda ST320414A	Ultra ATA 100	20GB

8.3.2 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 SIEMENS 128MB (HYB39S64800CT-8) Total: 256 MB ☒ PC66 ☒ PC100
 VGA Creative TNT2 Ultra ☒ PCI Slot: ☒ AGP 2X
 Sound VIA VT686B ☒ ISA Slot: ☒ On board
 Mouse Logitech First Mouse+ Mouse ☒ COM ☒ PS/2

The following IDE devices test CD Winbench 99 and play VCD/DVD over night under indows 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.

8.3.2.1 ATAPI CD-ROM:

Vendor	Model Name	Product Description
ASUS	CD-S500/A	ATAPI CD-ROM 50X UDMA2
BTC	BCD 48SB	ATAPI CD-ROM 48X UDMA2
Pioneer	DR-744	ATAPI CD-ROM 36X Mode4
SONY	CDU-4811	ATAPI CD-ROM 48X UDMA2
Mitsumi	CRMC-FX4820T	ATAPI CD-ROM 48X UDMA2
LITE-ON	LTN-485S	ATAPI CD-ROM 48X UDMA2
TEAC	CD-540E	ATAPI CD-ROM 40X Mode3

8.3.2.2 ATAPI DVD-ROM:

Vendor	Model Name	Product Description
Hitachi	GD-2500	ATAPI DVD-ROM 6X
ASUS	DVD-E608	ATAPI DVD-ROM 8X
	DVD-E612	ATAPI DVD-ROM 12X
Panasonic	SR-8585-B	ATAPI DVD-ROM 8.0X
Pioneer	DVD-114	ATAPI DVD-ROM 10X
	DVD-115	ATAPI DVD-ROM 16X
	DVD-105S	ATAPI DVD-ROM 16X
Acer	DVP1640A	ATAPI DVD-ROM 16X
SONY	DDU-220E	ATAPI DVD-ROM 5.0X
Creative	DVD1242E	ATAPI DVD-ROM 12X
Lite-on	LTD-122	ATAPI DVD-ROM 12X

8.4 Peripherals

8.4.1 Parallel/Serial Port Products

Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222A .
CPU Intel Pentium III 800MHz ☒ Intel
Memory Buffalo 64MB (GM72V66841ET7K) Total: 128 MB ☒ PC100 ☒ PC133
HDD IBM DTLA-305020 20.4GB IDE ☒ UDMA/66 ☒ UDMA/100
Channel: ☒ PM ☒ PS ☒ SM ☒ SS
CD-ROM Lite-On LTN-122 12X IDE DVD **Channel:** ☒ PM ☒ PS ☒ SM ☒ SS
VGA ASUS AGP-V7100 **PCI_Slot:** ____ ☒ AGP 2X
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 with VIA IDE Bus Master drivers installed.

Vendor	Product Description	Bus I/F
EPSON	Stylus Color 900	LPT
iomega	Parallel ZIP 250	LPT
Kodak	DC210 InfraRed/Serial port Digital camera	COM

8.4.2 Mouse Products

Test Configuration:

CPU Intel Pentium III 800MHz ☒ Intel
Memory Buffalo 64MB (GM72V66841ET7K) **Total: 128 MB** ☐ PC100 ☒ PC133
HDD IBM DTLA-305020 20.4GB IDE ☐ UDMA/66 ☒ UDMA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM Lite-On LTN-122 12X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA ASUS AGP-V7100 **PCI_Slot:** ____ ☒ AGP 2X
Sound VIA VT686B **ISA_Slot:** ____ ☒ On board
Mouse Logitech TrackMan Marble Mouse **COM** ☒ PS/2

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

Vendor	Product Description	Bus I/F
Microsoft	IntelliMouse Serial Mouse	Serial/ PS2
	IntelliMouse explorer USB/PS2 Mouse	USB/PS2
Logitech	Logitech MouseMan Serial Mouse	Serial/ PS2
	Logitech First Mouse+ Serial Mouse	Serial/ PS2
Genius	NetScroll Optical	PS2

8.4.3 USB Device Products

Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222A
CPU Intel Pentium III 1GHz ☒ Intel
Memory Ramaxel 64MB(GM72V66841ET7K) **Total: 128 MB** ☐ PC66 ☒ PC100
HDD Seagate ST317242A 17.5GB IDE ☒ UDMA/66 ☐ UDMA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM Pioneer DVD-115 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA ATI Xpert 2000 **PCI_Slot:** ____ ☒ 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 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 Optical USB Mouse
		IntelliMouse explorer USB Mouse
HUB	Belkin	Express Bus F5U001

Camera	Kodak	DVC323
	IBM	XVP610
Keyboard	BTC	8113W
	Microsoft	Natural Keyboard Pro
Ethernet	CATC	USB Ethernet Link
Printer	EPSON	Stylus Color 740
		Stylus Color 900
ZIP	iomega	ZIP 250
Scanner	EPSON	GT-7000
	HP	ScanJet 4200C
Joystick	Logitech	WingMan Formula Force joystick
	Thrustmaster	TOP Gun
	Genius	Flight2000 F-22X
GamePad	Creative	Cobra USB GamePad
	Logitech	WingMan Extreme USB GamePad

8.4.4 Joystick & Game Pad

Test Configuration:

OS Ver ☒ Win 98 **SE Ver:** 4.10.2222A .
CPU Intel Pentium III 1GHz ☒ Intel
Memory Ramaxel 64MB(GM72V66841ET7K) **Total:** 128 MB ☒ PC66 ☒ PC100
HDD Seagate ST317242A 17.5GB IDE ☒ UDMA/66 ☒ UDMA/100
Channel: ☒ PM ☒ PS ☒ SM ☒ SS
CD-ROM Pioneer DVD-115 16X IDE DVD **Channel:** ☒ PM ☒ PS ☒ SM ☒ SS
VGA ATI Xpert 2000 **PCI Slot:** ____, ☒ AGP 4X
Sound VIA VT686B **ISA Slot:** ____, ☒ On board
Mouse Logitech First Mouse+ 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	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: 4.30.9000 .
CPU Intel Pentium III 750MHz ☒ Intel
Memory Apacer 128MB(GM72V66841ET7K) **Total: 256 MB** ☒ PC66 ☒ PC100
HDD WD AC310200 10.2GB IDE ☒ UDMA/33 ☒ UDMA/66
Channel: ☒ PM ☒ PS ☒ SM ☒ SS
CD-ROM Pioneer DVD-115 16X IDE DVD **Channel:** ☒ PM ☒ PS ☒ SM ☒ SS
VGA Creative TNT2 Ultra **☒ PCI_Slot:_____** ☒ 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 2000 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-101B Rev:02	145W	SFX
	DPS-145PB-111 A Rev:00	145W	SFX
SIR TEC	SI-X145M3 REV:B1	145W	SFX
HIPRO	HP-146SSG Rev:X01	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

9. Software Compatibility Test Suite

9.1 Base Operating System

9.1.1 Microsoft Windows 98 SE:

Test Configuration:

CPU Intel Pentium III 933MHz ☒ Intel

Memory Buffalo 128MB(GM72V66841ET7K) Total: 256 MB ☐ PC100 ☒ PC133

HDD Fujitsu MPG3307AT 30.7GB IDE ☐ UDMA/66 ☒ UDMA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

VGA ASUS AGP-V7700 Deluxe

☐ PCI_Slot: ___. ☒ AGP

Sound VIA VT686B

☐ ISA_Slot: ___. ☒ On board

CD-ROM ASUS DD-E612 12X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Mouse Logitech TrackMan Marble Mouse

☐ COM ☒ PS/2

Test Item	Result	Remark
FDISK (FAT32)	PASS	
Install Win OS	PASS	

Format FDD	PASS	
Diskcopy	PASS	
Large file Copy (one file over 500MB)	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	
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Install Office 2000	PASS	
Auto Shutdown (system power off)	PASS	
Defrag test	PASS	
VCD play (name: <i>Runaway Bride</i>)	PASS	
Power Management	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
System Shutdown	Power button (Setting from PM)	PASS
	Start → Shut down item	PASS
WinStone 2001	PASS	
CC WinStone 2001	PASS	
WinBench 99 (BD/BG/HD/HG)	PASS	
3D Mark2000	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 98 SE	4.10.2222A	English	Microsoft	Pass

9.1.2 Microsoft Windows 2000:

Test Configuration:

CPU Intel Pentium III 933MHz ☒ Intel
 Memory Buffalo 128MB(K4S6408320-TC1H)Total: 256 MB ☐ PC100 ☒ PC133
 HDD IBM DTLA-307060 60GB IDE ☐ PIO4 ☐ UDMA/66 ☒ UDMA/100
 Channel: ☒ PM ☐ PS ☐ SM ☐ SS
 VGA ATI Radeon ☐ Onboard ☒ AGP 4X
 Sound VIA VT686B ☐ ISA_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	
CC WinStone 2001		PASS	
3D Mark2000		PASS	
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 933MHz ☒ Intel
 Memory KingMax 128MB(KSV884T4A1A-06) Total: 256 MB ☐ PC100 ☒ PC133
 HDD IBM DTLA-307045 46.1GB IDE ☐ PIO4 ☐ UDMA/66 ☒ UDMA/100
 Channel: ☒ PM ☐ PS ☐ SM ☐ SS
 VGA Matrox Millennium G450 ☐ Onboard ☒ AGP 4X
 Sound VIA VT686B ☐ ISA_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	
WinStone 2001	PASS	
CC WinStone 2001	PASS	
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 1GHz ☒ Intel
 Memory Buffalo 128MB (5264805FTT75) Total: 256 MB ☒ PC100 ☒ PC133
 HDD Fujitsu MPB3032AT 3.2GB IDE ☒ PIO4 ☒ UDMA/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	
DOS Windows	PASS	
OS/2 Windows	PASS	
PM function (H/W)	PASS	

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 1GHz ☒ Intel
Memory Hyundai 128MB (HY57V658020B-10P) **Total: 256 MB** ☒ PC66 ☒ PC100
HDD Maxtor 91360U4 13.6GB IDE ☒ PIO4 ☒ UDMA/66
Channel: ☒ PM ☒ PS ☒ SM ☒ SS
VGA Creative TNT2 Ultra ☒ PCI_Slot: ____ ☒ AGP
CD-ROM Creative DVD8400E 8X 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
Open Linux	2.4	English	Pass

9.1.6 Microsoft Windows ME:

Test Configuration:

CPU Intel Pentium III 933MHz ☒ Intel
Memory SIEMENS 512MB(HYB39S256800T-7.5) **Total: 512 MB** ☒ PC100 ☒ PC133
HDD Maxtor 54098H8 40.9GB IDE ☒ PIO4 ☒ UDMA/66 ☒ UDMA/100
Channel: ☒ PM ☒ PS ☒ SM ☒ SS
VGA ELSA GLADIAC MX ☒ 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
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	
CC WinStone 2001	PASS	
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

Test Engineer:

BIOS: Benson Shen OS: Scott Lin

I/O : Kun Tai Audio: Brad Su

CPU/Memory: Lion Liou VGA: Leon Liang



Logo: Joy Tsai

IDE Devices: Scott Lin

Check by: Lion Liou

Ownership: Benson Shen