

# **FIC FA11 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT**

<b>Product Version:</b>	<b><i>V 1.3</i></b>
<b>BIOS Version:</b>	<b>VBA42</b>
<b>Report Date:</b>	<b>2/06/2001</b>
<b>Revision:</b>	<b>1.06</b>



## Revision History

Document Release	Date	Change Item	ECN
Revision 1.01	7/07/2000	BIOS update version to VBA42 Add support Intel Celeron 700MHz CPU Add support Cyrix III(Samuel) 533/550/600MHz CPU Remove "Power Failure" feature	M99A04-E-004
Revision 1.02	7/31/2000	Add support PROMISE ATA/100 PCI IDE card Add support IBM DTLA series ATA/100 IDE HDD	
Revision 1.03	10/17/2000	Add support Windows ME (Millennium Edition)	
Revision 1.04	11/07/2000	Add support Intel Celeron 766MHz CPU	
Revision 1.05	11/28/2000	Add support Intel Celeron 633MHz CPU	
Revision 1.06	2/06/2001	Add support Intel Celeron 800MHz CPU	

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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** : FA11 PCB Rev 1.3  
**Product Name** : VIA Apollo pro 133A Based Mainboard  
**System BIOS** : Award BIOS Version VBA42  
**PCI IDE** : Internal PCI Mastre dual IDE  
**I/O** : Winbond 83977EF-AW

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## 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	Pass
Celeron 533MHz	66	FC-PGA	Pass
Celeron 566MHz	66	FC-PGA	Pass
Celeron 600MHz	66	FC-PGA	Pass
Celeron 633MHz	66	FC-PGA	Pass
Celeron 667MHz	66	FC-PGA	Pass
Celeron 700MHz	66	FC-PGA	Pass
Celeron 766MHz	66	FC-PGA	Pass
Celeron 800MHz	100	FC-PGA	Pass
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

## Cyrix :

Cyrix Processors	Bus	Package	Status
Cyrix III 533MHz	133	FPGA	Pass
Cyrix III 550MHz	100	FPGA	Pass
Cyrix III 600MHz	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 Apollo pro 133A (694X_E+596B_E)
System Cache	128K/256K Pipeline Burst SRAM Built-in CPU card
System Memory	Maximum : 1.5GB SDRAM 168 pins single RAS and Double RAS DIMM RAM Module
PCI Bus Clock	Synchronous mode (depended on CPU Clock divide by 2)
System Slots	1 AGP and 5 PCI and 1 ISA slots
Audio	Creative CT5880 PCI 4 channel Audio on board (Option)
IO Corelogic	Winbond 83977EF-AW Support Normal,EPP,ECP mode and IR interface
PCI IDE	VIA VT82C596B internal Bus Master PCI IDE.

### 4.1 Main Functionality Support:

Num.	M/B function	Result
1	ACPI Ready (under Win 98/Win 2000)	PASS
2	APM 1.2	PASS
3	Wake On LAN / Wake On Ring	PASS
4	RTC Alarm Function	PASS
5	Logo Genie	PASS
6	BIOS Easy Kit	PASS
7	Overclock Partner	PASS
8	BIOS Flash Protect (Guardian feature)	PASS
9	Audio Alert (Option)	PASS
10	Ultra ATA-33/66 Enhanced IDE Interface	PASS
11	CPU with DRAM Asynchronous interface	PASS
12	USB Function	PASS
13	Keyboard/PS2 mouse Power On	PASS
14	Year 2000 Compliance	PASS

### 4.2 Main Software Utilities Support:

Num.	M/B function	Version	Result
1	VIA IDE Bus Master for Win 98	1.47	PASS
2	VIA IDE Bus Master for Win NT	2.1.47	PASS
3	VIA AGP VxD Utilities for Win 95/98	4.00	PASS
4	VIA chipset function' Registry for Win 95/98	1.09	PASS
5	VIA IRQ Routing Table	1.30	PASS
6	FirstAID	1.2	PASS
7	Onboard Creative CT5880 Audio driver for Win 9x	4.06.1167	PASS
8	Award BIOS Flash ROM Utilities	7.64A	PASS
9	Award DMICFG Utilities for DOS	2.3Du	PASS

## 5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPEAKER	Open	Pass
Power LED	POWER LED	Open	Pass
Sleep Button	SLP BTN	Open	Pass
Sleep LED	SLP LED	Open	Pass
IDE LED	HDD LED	Open	Pass
Reset Button	RST BTN	Open	Pass
Remote Power Button	PWR BTN	Open	Pass
Message LED	MSG LED	Open	Pass
CPU FAN Connector	CPUFAN	Open	Pass
Chassis FAN Connector	CHSFAN	Open	Pass
CPU Clock Rate	SW1-1~4	On,Off,On,Off	Pass
Clear CMOS	SW1-5	Off	Pass
Clear Password Switch	SW1-6	Off	Pass
System Bus Clock	J1/J2/J3	2-3/1-2/1-2	Pass
Magic Tunner	JOCK	2-3	Pass
Keyboard Power-On Select	KBWAKE	2-3	Pass
LAN Wake Up	WOL	Open	Pass
IR interface	IR	Open	Pass

## 6. Stability Test



**1. Full Loading Test : ( 1 days)**

System Configuration			
<b>CPU</b>	: Pentium III 733	<b>VGA/Audio</b>	: Creative TNT2 Value AGP
<b>Cache Memory</b>	: 256 K	<b>Audio</b>	: Onboard
<b>Memory</b>	: SEC 64MB SDRAM x 3	<b>Power Supply</b>	: Hipro HP-200NLXAG 200W
<b>HDD</b>	: Quantum Fireball CX 13GB Maxtor 92040U6 20GB Sony CDU220E DVD Creative CD5220E CD-ROM		
<b>FDD</b>	: Mitsumi D353F3 1.44MB		

**Test Conditions:**

- All memory banks loaded.
- Both IDE channels are used.
- Diagnostic Program: ZD WinStone 99 burn in test.

NO.	Test Engineer	Test Result	Remark
1.	Peter Churg	PASS	

**2. Power Cycling test (Power On/Off Test): (12 hours)**

System Configuration			
<b>CPU</b>	: Pentium III 850	<b>VGA/Audio</b>	: Creative TNT2 Ultra AGP
<b>Cache Memory</b>	: 256 K	<b>Mouse</b>	: Microsoft PS/2 mouse
<b>On Board Memory</b>	: Hitachi SDRAM 256MB	<b>Power Supply</b>	: Enlight ATX-723B 250W
<b>FDD</b>	: Mitsumi D353F3 1.44MB		

**Test Conditions:**

Temperature range: 25°C

Power On/Off ten times in each condition

NO.	Test Engineer	Test Result	Remark
1.	Peter Churg	PASS	Cool boot total: 1500 times

**7. Base Operating Systems HCT Tests For PC99**

Operating System	Company	HCT Name	Result
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Windows 2000	Microsoft	Microsoft WHQL HCT 9.6	<i>Pass</i>
Test Configurations	Intel Pentium III 750MHz 128MB Memory. ELSA ERAZOR III LT 32MB SDRAM AGP VGA		

## 8. Hardware Compatibility Test Suite

### 8.1 Memory

#### Test Configuration:

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

CPU Intel Celeron 566MHz (Bus clock 66MHz) ☐ Intel  
Intel Pentium III 850MHz (Bus clock 100MHz)  
Intel Pentium III 866MHz (Bus clock 133MHz)

HDD Maxtor 91531U3 15GB IDE ☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA Creative GeForce pro 32MB SDRAM ☐ PCI\_Slot: \_\_\_\_ ☐ AGP 4X

CD-ROM Creative CD4834E 48X IDE Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Sound Creative CT5880 PCI ☐ ISA\_Slot: \_\_\_\_ ☐ On board

Mouse Microsoft IntelliMouse PS/2 Mouse ☐ COM ☐ PS/2

The following SDRAM module test cool boot, Install Win 98 and run Winstone 99 V1.3 under Windows 98 SE/NT 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 (PC66)

Vender	IC Part No.	ECC	Size	Side	Module No.
Fujitsu	81117622A-100FN	No	16MB	S	
	81117822E-100FN	No	32MB	D	
	81164842A-100FN	Yes	128MB	D	
HYUNDIA	HY57V168010A-10	No	16MB	S	HYM7V64200 TFG-10
	HY57V168010A-10	No	16MB	S	MEMDIMO12AAWW
	HY57V168010A-10	Yes	32MB	D	HYM7V72A400 TFG-10
	HY57V658020TC-10	Yes	64MB	S	HYM7V72A801
	HY57V658020TC-10	No	128MB	D	U8
Micron	MT48LC2M8A-10	No	16MB	S	MTBLSDT264AG
	MT48LC2M8A1-10	No	16MB	S	MT8LSDT264AG-662C1
	MT48LC2M8A1-10	No	32MB	S	MT16LSDT464AG-66CL2
	MT48LC2M8A1-10	Yes	32MB	D	MT16LSDT472A6-662C1
Mitsubishi	M5M4V16S30CTP-12	No	16MB	S	MH2S64CZTJ-15
	M5M4V16S30CTP-12	No	32MB	D	MH4S64CZTJ-16
	M5M4V16S30DTP	Yes	32MB	D	M04B032M2EE72208-C3100
SEC	KM48S2020AT-G12	No	16MB	S	MDS163S-28
	KM48S2020AT-G12	No	16MB	S	KMM366S203AT-G2
	KM48S2020BT-G10	No	16MB	S	KMM366S203BTN-G0
	KM48S2020BT-G10	Yes	32MB	D	KMM374S403BTN-G0
	KM416S4030AT-G10	No	64MB	D	KMM366S824AT-G0
	KM48S8030AT-G10	No	64MB	S	KMM366S823AT-G0
SIEMENS	HYB39S16800T-10	No	16MB	S	NYS64V2000GU-10
Toshiba	TC59S1608AFT-12A	No	16MB	S	THMY640231AEG-12A
	TC59S1608AFT-12A	No	32MB	D	THMY644041AEG-12A

### 8.1.2 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
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

### 8.1.3 SDRAM DIMM Module (PC133)

Vender	IC Part No.	ECC	Size	Side	Module No.
SIEMENS	HYB39S64800AT--8	No	64MB	S	HYS64V8200GU-7.5
	HYB39S64800AT--8	No	128MB	D	HYS64V16220GU-7.5
	HYB39S64800BT-7.5	No	64MB	S	HYS64V8300GU-7.5
	HYB39S64800BT-7.5	No	128MB	D	HYS64V16220GU-7.5
MICRON	MT48LC8M8A2-75B	No	128MB	D	MT16LSDT1664AG-133B4
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
	HYB39S64800AT-7.5	No	128MB	D	71.73350.114
	AM2V648C2T75	No	128MB	D	71.73350.034
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)
Buffalo	W981208ah-75	No	128MB	S	VS133-128M
	GM72V66841ET7K	No	64MB	S	VS133-64MB
	GM72V66841ET7K	No	128MB	D	VS133-128M
V-TEC	GM72V66841ET75	No	64MB	S	
SIMONS	D45128841G5-A80-9JF	No	128MB	S	
Hyundai	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
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 98 SE Ver: 4.10.222A .

CPU Intel Pentium III 800MHz (Bus clock 133MHz) ☐ Intel

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

HDD Quantum Fireball LM 30GB ☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

CD-ROM Pioneer DVD-115 16X IDE DVD Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Sound Creative CT5880 PCI ☐ ISA\_Slot:     ☐ Onboard

Mouse Logitech MouseMan Mouse ☐ COM ☐ PS/2

The following PCI/AGP VGA cards test Final Reality V1.01/ 3D WinBench 2000 V1.0 /3Dmark 2000 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.

#### 2X AGP Display Adapter Products

Vendor	Model Name	Product Description	Driver version
ATI	Rage pro	XPRT@Play 98	4.11.2611
	Rage 128GL	Rage Fury	4.11.6222
	Rage 128GL	XPRT 128	4.11.6222
	Rage 128VR	XPRT 2000	4.11.6222
	Rage 128GL	All-In-Wonder 128	4.11.6222
	Rage 128 Pro	Rage Fury MAXX	4.12.7936
	Rage 128 Pro	Rage Fury Pro	4.11.6249
ASUS	Riva 128ZX	AGP-V3000ZXTV	4.10.01.0250
	S3 Savage 3D	AGP-V3100	4.11.01.4005
	3Dfx Voodoo Banshee	AGP-V3200	4.11.01.0378
	Riva TNT2	AGP-V3800	4.12.01.0375
Matrox	MGA-G200	Millennium G200	4.11.01.2520
	MGA-G200A	Millennium G200 LE	4.11.01.2520
	MGA-G400	Millennium G400 SH	4.11.01.1500
	MGA-G400	Millennium G400 DH	4.11.01.1410
	MGA-G400	Millennium G400 MAX	4.11.01.1410
Diamond	3DLabs Permedia II	Fire GL1000 pro	4.10.01.2359
	Riva 128	Viper V330	4.10.01.0279
	Riva TNT	Viper V550	4.12.01.0368
	Intel i740	Stealth II G460	4.10.01.1346
	3Dfx Voodoo Banshee	Monster Fusion	4.10.01.0213
ELSA	3DLabs Permedia II	Gloria Synergy	4.11.01.0203
	Riva TNT	ERAZOR II	4.12.01.0112
	3Dfx Voodoo Banshee	Victory II	4.11.01.0300

PowerColor	S3 Savage 3D	Savage 3D	4.11.01.4005
Creative	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra	4.12.01.2207
Gigabyte	Riva TNT2 -A	GA-660 Plus	4.11.01.0208
Cardex	Riva TNT2 Ultra	Explosive	4.12.01.0377
Leadtek	Riva TNT2 Ultra	Winfast 3D S320 II Ultra	4.11.01.0240
	SiS 300	Winfast VR300	4.12.01.1030
	Riva TNT2 Vanta	WinFast 3D S320V	4.11.01.0240
3dfx	Voodoo 3 2000	3dfx Voodoo 3 2000	4.12.01.1222
	Voodoo 3 3000	3dfx Voodoo 3 3000	4.12.01.1222
	Voodoo 3 3500	3dfx Voodoo 3 3500 TV	4.12.01.1222

#### 4X AGP Display Adapter Products

Vendor	Model Name	Product Description	
Hercules	Riva GeForce 256	3D Prophet DDR-DVI	4.12.01.0377
YUAN	Riva TNT2 M64	3D Xtreme2	4.12.01.0368
Diamond	Riva TNT2	Viper V770	4.12.01.0368
	Riva TNT2 Ultra	Viper V770 Ultra	4.12.01.0368
	S3 Savage 2000	Viper II	4.11.01.9001
ASUS	S3 Savage 4	AGP-V3500	1.00.0603
	Riva GeForce 256	AGP-V6600	4.12.01.0375
	GeForce256	AGP-V6800	4.12.01.0375
	Riva TNT2 Pro	AGP-V3800 Pro	4.12.01.0375
Leadtek	Riva TNT2 M64	WinFast 3D S325	4.11.01.0208
	Riva GeForce 256	Winfast GeForce256	4.12.01.0379
	GeForce256 GTS	Winfast GeForce 2 GTS	4.12.01.0384
Creative	S3 Savage4	3D Blaster Savage4	4.11.01.2104
	Riva TNT2 M64	Riva TNT2 Value	4.12.01.2207
	Riva GeForce 256	3D Blaster GeForce256	4.12.01.2207
	Riva GeForce 256	3D Blaster GeForce Pro	4.12.01.2207
ELSA	Riva TNT2	Synergy II	4.12.01.0116
	S3 Savage 4	Winner II	4.11.01.0310
	Riva TNT2	ERAZOR III	4.12.01.0112
	Riva TNT2 M64	ERAZOR III LT	4.12.01.0112
	Riva TNT2 M64	ERAZOR III LT-16	4.12.01.0116
	Riva TNT2 Pro	ERAZOR III Pro	4.12.01.0112
	Riva GeForce 256	ERAZOR X	4.12.01.0112
	Riva GeForce 256 DDR	ERAZOR X <sup>2</sup>	4.12.01.0112

#### PCI Display Adapter Products

Vendor	VGA Chip	Product Description	Driver version
STB	3dfx Voodoo3-2000	3dfx Voodoo3 2000	4.12.01.1222
Cardex	SiS 6326	Cardexpert 6326	4.11.01.1280
	S3 Virge/DX	S3 Virge/DX	4.10.1681
Creative	S3 Savage 4	3D Blaster Savage 4	4.11.01.2104
ASUS	Riva TNT2	PCI-V3800	4.11.01.0225
Diamand	S3 964	Stealth 64 Video	4.10.1686
ATI	ATI Rage II	ATI Rage II 3D	4.10.2165

ELSA	S3 Virge/VX	Winner 3000L 3D	4.10.1681
Matrox	MGA-1064SG	Mystique 4MB SGRAM	4.10.1682

## 8.2.2 SCSI Adapter Products

### Test Configuration:

**OS Ver** ☐ Win 98 **SE Ver:** 4.10.2222A .  
☐ Win NT Ver: 4.0 + SP6  
**CPU** Intel Pentium III 800MHz ☐ Intel  
**Memory** NEC 64MB (D4564841G5-A75-9JF) **Total:** 128 MB ☐ PC100 ☐ PC133  
**VGA** Matrox Millennium G200 AGP VGA ☐ PCI\_Slot: \_\_\_\_ ☐ AGP  
**HDD** IBM DD RS39130 9.1GB SCSI HDD ☐ Ultra II SCSI ☐ Ultra Wide  
Quantum Atlas III 9.1GB SCSI HDD ☐ Ultra SCSI ☐ Ultra Wide  
**CD-ROM** TEAC CD-R56S SCSI ☐ Ultra SCSI ☐ Ultra Wide  
**Sound** Creative CT5880 PCI ☐ ISA\_Slot: \_\_\_\_ ☐ On board  
**Mouse** Logitech MouseMan Mouse ☐ COM ☐ PS/2

The following PCI SCSI cards test HCT Stress 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.

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-29160	Adaptec Ultra 160 PCI SCSI card 29160	PCI
	ASC-39160	Adaptec Ultra 160 PCI SCSI card 39160	PCI
BusLogic	FlashPoint LT	Buslogic BA81C15 PCI SCSI	PCI
	KT-958	Buslogic KT-958 Narrow SCSI	PCI
Tekram	DC-390	Tekram DC-390 PCI SCSI	PCI
	DC-390U2W	Tekram DC-390U2W PCI SCSI	PCI

## 8.2.3 FAX / Modem Products

### Test Configuration:

**OS Ver** ☐ Win 98 **SE Ver:** 4.10.2222A .  
**CPU** Intel Pentium III 733MHz ☐ Intel  
**Memory** Apacer 64MB (AM2V648C2T75) **Total:** 128 MB ☐ PC100 ☐ PC133  
**VGA** ASUS AGP-V3500 32MB SDRAM ☐ PCI\_Slot: \_\_\_\_ ☐ AGP  
**HDD** IBM DJNA-352030 20GB IDE ☐ PIO4 ☐ UDMA/66  
Channel: ☐ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** TEAC CD-532EA 32X IDE Channel: ☐ PM ☐ PS ☐ SM ☐ SS  
**Sound** Creative CT5880 PCI ☐ ISA\_Slot: \_\_\_\_ ☐ On board

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

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

Vendor	Product Description	Bus I/F
GVC	56K FLEX ASVD	External
Motorola	VoiceSURFR 56K	External
HSP	V1456VQH-P1 56Kbps PCI	Internal/PCI
GVC	SF-1156HV/R21 KB3471	Internal/ISA
GVC	F-1156IV/R2 KB3497	Internal/PCI
Turbo	Motorola SM56 Voice PCI	Internal/PCI
HSP	V1456VQH-P1 56Kbps	Internal/PCI
Archtek	A12PW19085A 56Kbps	Internal/PCI

## 8.2.4 ATA/100 PCI IDE Products

### Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A  
☐ Win 2000 Ver: 5.00.2195  
CPU Intel Pentium III 866MHz ☐ Intel  
Memory Buffalo 128MB (GM72V66841ET7K) Total: 256 MB ☐PC100 ☐ PC133  
VGA ASUS AGP-V7700 32MB DDRAM ☐PCI\_Slot:\_\_\_\_ ☐ AGP  
HDD IBM DTLA-307060 61.4GB IDE ☐PIO4 ☐ UDMA/100  
Channel: ☐ PM ☐PS ☐SM ☐SS  
CD-ROM SONY CDU4811 48X IDE Channel: ☐PM ☐PS ☐ SM ☐SS  
Sound Creative CT5880 PCI ☐ISA\_Slot:\_\_\_\_ ☐ On board  
Mouse Microsoft IntelliMouse PS/2 Mouse ☐COM ☒ PS/2

The following ATA/100 PCI card test Core test 92/Winstone 99/Winbench 99 under Windows 98 SE/2000 with their respective card drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font..

Vendor	Product Description	Bus I/F
PROMISE	Ultra ATA/100 Controller Card for PCI	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 750MHz ☐ Intel





**Memory** Micron 128MB (MT48LC8M8A2-75B) **Total: 128 MB** ☐PC66 ☒PC100  
**VGA** Diamond Viper V770 32MB SDRAM ☐PCI\_Slot: \_\_\_\_ ☒AGP  
**SCSI** AHA -2940U2W Ultra 2 SCSI ☐ISA ☒PCI\_Solt: 2  
**Mouse** Logitech First Mouse+ Mouse ☐COM ☒PS/2

The following SCSI devices test HCT Stress 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
SCSI Hard Disk	Quantum	Viking II	Ultra2 Wide SCSI HDD 4.5GB
		Atlas II	Ultra SCSI HDD 4.5GB
		Atlas III	Ultra Wide SCSI HDD 9.1GB
		Atlas V	Ultra Wide SCSI HDD 18GB
		Atlas 10K	Ultra2 SCSI HDD 18.2GB
	Seagate	ST-34555N	Ultra SCSI HDD 4.5GB
		ST-32272W	Ultra Wide SCSI HDD 2.2GB
		ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST318404LW	Cheetah Ultra160 Wide 18GB
		ST-34502LW	Cheetah 9LP Ultra2 Wide 4.5GB
	IBM	DCAS34330	Ultra SCSI HDD 4.5GB
		DCAS34330	Ultra Wide SCSI HDD 4.5GB
		DMVS IEC-950	Ultra2 Wide SCSI HDD 9.1GB
		DMVS IEC-950	Ultra2 Wide SCSI HDD 36GB
CD-ROM	Plextor	PX-40Tsi	Ultra SCSI CD-ROM 40X
	Panasonic	CR-508	SCSI-II CD-ROM 24X
	NEC	CDR-1910	Ultra SCSI CD-ROM 32X
	SONY	CDU-625	SCSI-II CD-ROM 24X
	TEAC	CD-523S	Ultra SCSI CD-ROM 32X
	Toshiba	XM-6210B	Ultra SCSI CD-ROM 32X

### 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  
**CPU** Intel Pentium III 866MHz ☒ Intel  
**Memory** V-TEC 64MB (GM72V66841ET75) **Total: 128 MB** ☐PC100 ☒PC133  
**CD-ROM** ASUS CD-S500 50X IDE CD-ROM **Channel:** ☐PM ☐PS ☒SM ☐SS

**VGA** Diamond Viper 770 Ultra 32MB SDRAM ☐ PCI\_Slot: \_\_\_\_ ☒ AGP  
**Sound** Creative CT5880 PCI ☐ ISA\_Slot: \_\_\_\_ ☒ On board  
**Mouse** Logitech First Mouse+ Mouse ☐ COM ☒ PS/2

The following IDE devices test WinStone 99/WinBench 99 under Windows 98/NT 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/33

Vendor	Model Name	Mode	Capacity
Maxtor	Diamond 88400D8	Ultra DMA 33	8.4GB
	Diamond 86480D6	Ultra DMA 33	6.4GB
	Diamond 84320D4	Ultra DMA 33	4.3GB
	Diamond 91000D8	Ultra DMA 33	10.0GB
Fujitsu	MPA3052AT	Ultra DMA 33	5.2GB
	MPA3043AT	Ultra DMA 33	4.3GB
	MPB3064AT	Ultra DMA 33	6.4GB
	MPB3032AT	Ultra DMA 33	3.2GB
	MPC3043AT	Ultra DMA 33	4.3GB
	MPC3064AT	Ultra DMA 33	6.4GB
	MPC3102AT	Ultra DMA 33	10.2GB
Quantum	Fireball ST	Ultra DMA 33	6.4GB
	Fireball SE	Ultra DMA 33	4.3GB
	Fireball EL	Ultra DMA 33	5.1GB
	Fireball EX	Ultra DMA 33	6.4GB
	Fireball EX	Ultra DMA 33	12.7GB
Seagate	Medialist pro ST-34342A	Ultra DMA 33	4.3GB
	Medialist pro ST-39140A	Ultra DMA 33	9.1GB
	Medialist pro ST-36530A	Ultra DMA 33	6.5GB
WD	Caviar AC36400	Ultra DMA 33	6.4GB
	Caviar AC38400	Ultra DMA 33	8.4GB
IBM	DHEA-36480	Ultra DMA 33	6.4GB
	DTTA-371010	Ultra DMA 33	10.1GB

### 8.3.2.2 IDE Ultra DMA/66

Vendor	Model Name	Mode	Capacity
WD	AC28400	Ultra DMA 66	8.4GB
	AC310200	Ultra DMA 66	10.2GB
	AC313000	Ultra DMA 66	13GB
Seagate	ST-36421A	Ultra DMA 66	6.4GB
	ST-313032A	Ultra DMA 66	13GB
	ST-317242A	Ultra DMA 66	17.2GB
	ST-328040A	Ultra DMA 66	28GB
Fujitsu	MPE3064AT	Ultra DMA 66	6.4GB
	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 CR	Ultra DMA 66	4.3GB
	Fireball CR	Ultra DMA 66	8.4GB
	Fireball CX	Ultra DMA 66	10.2GB
	Fireball CX	Ultra DMA 66	13GB
	Fireball KA	Ultra DMA 66	13.6GB
	Fireball LA	Ultra DMA 66	4.3GB
	Fireball LA	Ultra DMA 66	8.4GB
	Fireball LB	Ultra DMA 66	10.2GB
	Fireball Plus LM	Ultra DMA 66	20.5GB
	Fireball LM	Ultra DMA 66	30GB
IBM	DJNA-371350	Ultra DMA 66	13.5GB
	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
	91024U4	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	SV1364D	Ultra DMA 66	13.6GB
	SV2046D	Ultra DMA 66	20.4GB

### 8.3.2.3 IDE Ultra DMA/100 (Test under Promise ATA/100 PCI card)

Vendor	Model Name	Mode	Capacity
IBM	DTLA-307015	Ultra DMA 100	15.3GB
	DTLA-305020	Ultra DMA 100	20.5GB
	DTLA-307020	Ultra DMA 100	20.5GB
	DTLA-307030	Ultra DMA 100	30.7GB
	DTLA-307045	Ultra DMA 100	46.1GB
	DTLA-307060	Ultra DMA 100	61.4GB
	DTLA-307075	Ultra DMA 100	76.8GB

### 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 Celeron 566MHz ☐ Intel  
**Memory** Winbond 64MB (W981216AH-75) **Total: 128 MB** ☐ PC66 ☐ PC100  
**VGA** Diamond Stealth II G460 8MB SDRAM ☐ PCI\_Slot: \_\_\_\_ ☐ AGP  
**HDD** Seagate ST-313032A 13GB IDE ☐ PIO4 ☐ UDMA/66  
Channel: ☐ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** BTC BCD-40BXH 40X IDE Channel: ☐ PM ☐ PS ☐ SM ☐ SS  
**Sound** Creative CT5880 PCI ☐ 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 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 95 Ver: OSR2.5 .  
☐ Win 98 SE Ver: 4.10.2222A .  
**CPU** Intel Pentium III 800MHz ☐ Intel  
**Memory** NEC 128MB (D4564841G5-A80-9JF) **Total: 128 MB** ☐ PC66 ☐ PC100  
**HDD** Fujitsu MPE3102AH 10.2GB IDE ☐ PIO4 ☐ UDMA/66  
Channel: ☐ PM ☐ PS ☐ SM ☐ SS  
**VGA** ASUS AGP-V3800 32MB SDRAM ☐ PCI\_Slot: \_\_\_\_ ☐ AGP  
**Sound** Creative CT5880 PCI ☐ ISA\_Slot: \_\_\_\_ ☐ On board  
**Mouse** Logitech TrackmanMarble Mouse ☐ COM ☐ PS/2

The following IDE devices play VCD/DVD over night under Windows 95/98 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-FX4820T	ATAPI CD-ROM 48X UDMA2
Acer	650P	ATAPI CD-ROM 50X UDMA2
LITE-ON	LTN-403L	ATAPI CD-ROM 40X UDMA2
	LTN-485S	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
TEAC	CD-532EA	ATAPI CD-ROM 32X Mode3
	CD-540E	ATAPI CD-ROM 40X Mode4
SONY	CDU-711	ATAPI CD-ROM 32X UDMA2
	CDU-4811	ATAPI CD-ROM 48X UDMA2
BTC	BCD 48SB	ATAPI CD-ROM 48X UDMA2

#### 8.3.4.2 ATAPI DVD-ROM:

Vendor	Model Name	Product Description
Panasonic	SR-8583-B	ATAPI DVD-ROM 5.0X
	SR-8584-B	ATAPI DVD-ROM 6.0X
Toshiba	SD-M1202	ATAPI DVD-ROM 4.8X
SONY	DDU-220E	ATAPI DVD-ROM 5.0X
Hitachi	GD-2500	ATAPI DVD-ROM 6.0X
Crreative	DVD8400E	ATAPI DVD-ROM 8.0X
Afreedy	DD-4008E	ATAPI DVD-ROM 8.0X
	DD-4010E	ATAPI DVD-ROM 10X
Pioneer	DVD-114	ATAPI DVD-ROM 10X
	DVD-115	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 700MHz ☐ Intel

Memory Hyundai 128MB (HY57V658020B-10P) Total: 128 MB ☐ PC66 ☐ PC100

VGA ATI Rage Fury 328MB SDRAM ☐ PCI\_Slot:        ☐ AGP

HDD Seagate ST-36530A 6.5GB IDE ☐ PIO4 ☐ UDMA/33

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

**CD-ROM** TEAC CD-532EA 32X IDE**Sound** Creative CT5880 PCI**Mouse** Microsoft IntelliMouse Mouse**Channel:** ☐PM ☐PS ☒SM ☐SS☐ISA\_Slot: \_\_. ☒ On board☐COM ☒ PS/2

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

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

## 8.4 Peripherals

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

#### Test Configuration:

**OS Ver** ☒ Win 98 **SE Ver:** 4.10.2222A**CPU** Intel Pentium III 733MHz ☒ Intel**Memory** KingSton 128MB (HYB39S64800BT-7.5) **Total:** 64 MB ☐PC100 ☒ PC133**HDD** IBM DJNA-371350 13.5GB IDE ☐PIO4 ☒ UDMA/66**Channel:** ☐ PM ☐PS ☐SM ☐SS**CD-ROM** Creative CD4834E 48X IDE**Channel:** ☐PM ☐PS ☒ SM ☐SS**VGA** Matrox Millennium G400 32MB SGRAM☐PCI\_Slot: \_\_. ☒ AGP**Sound** Creative CT5880 PCI☐ISA\_Slot: \_\_. ☒ On board**Mouse** Logitech TrackMan Marble Mouse☐COM ☒ PS/2

The following Parallel/Serial devices be tested under Windows 95/98 with VIA IDE Bus Master drivers installed.

Vendor	Model Name	Product Description	Bus I/F
HP	LaserJet 6P	HP LaserJet 6P support IR Interface	LPT
Mustek	1200CP	Mustek 1200CP Scanner	LPT
Parallel	Universal Cable	DirectParallel universal cable	LPT
Actisys	ACT-IR210L	InfraRed Computer Link	IR
IRwave	Irwave320F	InfraRed Computer Link	IR
Kodak	DC210	InfraRed/Serial port Digital camera	COM

## 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 800MHz ☐ Intel  
**Memory** Apacer 128MB (HYB39S64800AT-7.5) **Total: 128 MB** ☐ PC100 ☐ PC133  
**HDD** Seagate ST-328040A 28GB IDE ☐ PIO4 ☐ UDMA/66  
**Channel:** ☐ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** Mitsumi crmc-FX4820T 48X IDE **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS  
**VGA** ATI XPERT 2000 32MB SDRAM **PCI\_Slot:**        ☐ AGP  
**Sound** Creative CT5880 PCI **ISA\_Slot:**        ☐ On board

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

Vendor	Model Name	Product Description	Bus I/F
Microsoft	IntelliMouse	Microsoft IntelliMouse Serial - PS/2 Mouse	Serial/ PS2
	IntelliMouse	IntelliMouse USB/PS2 Mouse (w IntelliEye)	USB/PS2
Logitech	MouseMan	Logitech MouseMan Serial - PS/2 Mouse	Serial/ PS2
	First Mouse+	Logitech First Mouse+ Serial - PS/2 Mouse	Serial/ PS2
	TrackMan Marble	Logitech TrackMan Marble Serial - PS/2 Mouse	Serial/ PS2
Genius	NetMouse	Genius NetMouse PS/2 Mouse	PS2

## 8.4.3 USB Device Products

### Test Configuration:

**OS Ver** ☐ Win 98 SE Ver: 4.10.2222A .  
**CPU** Intel Pentium III 733MHz ☐ Intel  
**Memory** Buffalo 128MB (5264805FTT75) **Total: 256 MB** ☐ PC100 ☐ PC133  
**HDD** Maxtor 93073U6 30.7GB IDE ☐ PIO4 ☐ UDMA/66  
**Channel:** ☐ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** SONY CDU-4811 48X IDE **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS  
**VGA** Voodoo3 3000 16MB SDGRAM **PCI\_Slot:**        ☐ AGP  
**Sound** Creative CT5880 PCI **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	M-UA34
		M-UB48
		USB Wheel Mouse
		USB MouseMan Wheel
	Microsoft	IntelliMouse Mouse (w IntelliEye)
	XNTC	98NS1-U2
	Justy	UM-400
	Cypress	7-895 Mouse
HUB	Belkin	Express Bus F5U001
Camera	Kodak	DVC323
	AXIS	PCAM-QU
Faxmodem	USRobotics	56K Voice Faxmodem
Keyboard	BTC	8113W
	Jetime	ACK-298H
	Microsoft	Natural Keyboard Pro
	Chicony	KU-8933
Printer	EPSON	Stylus Color 740
Ethernet	CATC	USB to Lan 10BASE-T
Scanner	HP	ScanJet 4200C
Monitor	CTX	CF711
CD-RW	SONY	Spessa CD-ReWritable Recorder
GamePad	Creative	Cobra USB GamePad
	Logitech	WingMan Extreme USB GamePad
Joystick	Genius	Flight2000 F-22X
	Logitech	WingMan Formula Force joystick
	Thrustmaster	TOP Gun

#### 8.4.4 Joystick

##### Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A

CPU Intel Pentium III 733MHz ☐ Intel

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

HDD Maxtor 92720U8 27.2GB IDE ☐PIO4 ☐ UDMA/66

Channel: ☐ PM ☐PS ☐SM ☐SS

CD-ROM BTC BDC48SB 48X IDE

Channel: ☐PM ☐PS ☐ SM ☐SS

VGA Creative Riva TNT2 32MB SDRAM

☐PCI\_Slot:\_\_\_\_. ☐ AGP

Sound Creative CT5880 PCI

☐ISA\_Slot:\_\_\_\_. ☐ On board



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

The following Joystick devices test Game under Windows 98 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

Vendor	Product Description	Power	Type
DELTA	DPS-200PB-89G	200W	ATX
	DPS-200PB-103D	200W	ATX
	DPS-200PB-103F	200W	ATX
HIPRO	HP-200PPGN	200W	ATX
	HP-300SN Rev:02	300W	ATX
Seventeam	ST-250GL	250W	ATX
	ST-301HR	300W	ATX
Enlight	ATX-723B	230W	ATX
	ATX-725B	250W	ATX
AOpen	FSP300-60GT	300W	ATX
LG	LGP-275	275W	ATX
FSP	FSP250-61GN(AMD)	250W	ATX

## 8.6 MPEG-2 DVD Display Products

### Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222ACPU Intel Pentium III 866MHz ☐ IntelMemory KingSton 128MB(HYB39S64800BT-7.5) Total: 128 MB ☐PC100 ☐PC133HDD Maxtor 91531U3 15.3GB IDE ☐PIO4 ☐UDMA/66Channel: ☐PM ☐PS ☐SM ☐SSVGA Cardex SiS6326 16MB SDRAM ☐PCI\_Slot: 2 ☐AGPSound Creative CT5880 PCI ☐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
Formosa	Sigma Designs EM8300	DVD8300 DVD card
Creative	3dfx Voodoo II	3D Blaster Voodoo II
	Creative CT7235-VBQ	PC-DVD ENCORE

## 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**Memory** Buffalo 128MB (W981208AH-75)**HDD** Seagate ST-328040A 28GB IDE**VGA** Leadtel Winfast Geforce2 GTS**Sound** Creative CT5880 PCI**CD-ROM** SONY CDU-4811 48X IDE**Mouse** Microsoft IntelliMouse Mouse☐ Intel**Total:** 392 MB ☐PC100 ☐PC133☐PIO4 ☐UDMA/66**Channel:** ☐PM ☐PS ☐SM ☐SS☐PCI\_Slot:\_\_\_\_. ☐AGP☐ISA\_Slot:\_\_\_\_. ☐On board**Channel:** ☐PM ☐PS ☐SM ☐SS☐COM ☐PS/2

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

Format FDD	PASS	
Diskcopy	PASS	
Large file Copy	PASS	
Cool boot 2 times under every combination	PASS	
Reboot 2 times under every combination	PASS	
FIC CD-PRO all Application Install & Test	PASS	
CoreTest 92 (Transfer Rate test)	PASS	
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Install Office 2000	PASS	
Auto Shutdown (system power off)	PASS	
Defrag test	PASS	
LS-120/ZIP install & working	PASS	
Year 2000 test	PASS	
VCD play (name: Mercury Rising )	PASS	
PM function by WIN98 (H/W )	PASS	
WinStone 99 (Business WS99)	PASS	
CC WinStone 2000	PASS	
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	PASS	
3D Winbench 99 (3D Quality/3D Winmark)	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 95 OSR2.5	950C	English	Microsoft	Pass
	950C	Chinese	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	Japanese	Microsoft	Pass
	4.10.1998	Portugal	Microsoft	Pass
	4.10.1998	Chinese(trad)	Microsoft	Pass
	4.10.1998	Chinese(simp)	Microsoft	Pass

### 9.1.2 Microsoft Windows 2000:

#### Test Configuration:

**CPU** Intel Pentium III 866MHz

☒ Intel

**Memory** Apacer 64MB (AM2V648C2T75)

**Total: 192 MB** ☐ PC100 ☒ PC133

**HDD** IBM DJNA-371350 13.5GB IDE

☐ PIO4 ☐ UDMA/33 ☒ UDMA/66

**Channel:** ☐ PM ☐ PS ☐ SM ☐ SS

**VGA** Diamond viper 770 AGP ☐ PCI\_Slot:\_\_\_\_ ☐ AGP  
**Sound** Creative CT5880 PCI ☐ ISA\_Slot:\_\_\_\_ ☐ On board  
**CD-ROM** Lite-On LTN-485S 48X IDE **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	
Format FDD	PASS	
Cool boot 2 times under every combination	PASS	
Reboot 2 times under every combination	PASS	
Install Office 2000	PASS	
VGA Resolution/Color change	PASS	
Auto Shutdown (system power off)	PASS	
Hibernate (Suspend To Disk)	PASS	
Defrag test	PASS	
VCD play (name: Mercury Rising )	PASS	
PM function by Win2000 (H/W & Time out & Stand by)	PASS	
WinStone 99 (Business /High End WS99)	PASS	
CC WinStone 2000	PASS	
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	PASS	

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

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

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

#### Test Configuration:

**CPU** Intel Pentium III 866MHz ☐ Intel  
**Memory** Buffalo 128MB (W981208AH-75) **Total:** 256 MB ☐ PC66 ☐ PC133  
**HDD** Quantum Fireball CX 13GB IDE ☐ PIO4 ☐ UDMA/66  
**Channel:** ☐ PM ☐ PS ☐ SM ☐ SS  
**VGA** ELSA ERAZOR X 32MB SDRAM ☐ PCI\_Slot:\_\_\_\_ ☐ AGP  
**Sound** Creative CT5880 PCI ☐ ISA\_Slot:\_\_\_\_ ☐ On board  
**CD-ROM** Lite-On LTN-485S 48X IDE **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS  
**Mouse** Logitech Mouse+ Mouse ☐ COM ☐ PS/2

Test Item	Result	Remark
Install Win NT with NTFS (boot from CD )	PASS	
Install Service Pack 6.0	PASS	
Format FDD	PASS	

Cool boot 2 times under every combination	PASS	
Reboot 2 times under every combination	PASS	
FirstAID Install & Test (FirstAID Ver: <u>2.0</u> )	PASS	
VGA Resolution/Color change	PASS	
VCD play (name: Mercury Rising )	PASS	
PM function by Win NT	PASS	
WinStone 99 (Business/High End WS99)	PASS	
CC WinStone 2000	PASS	
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
	4.0	German	Microsoft	Pass
	4.0	French	Microsoft	Pass
	4.0	Chinese	Microsoft	Pass
Windows NT Workstation Service Pack	5.0	English	Microsoft	Pass
	6.0	English	Microsoft	Pass

#### 9.1.4 IBM OS/2 4.0:

##### Test Configuration:

**CPU** Intel Pentium III 866MHz

**Memory** Apacer 64MB (AM2V648C2T75)

**HDD** Fujitsu MPB3032AT 3.2GB IDE

**VGA** S3 Trio 64+ 8MB DRAM

**Sound** Creative CT5880 PCI

**CD-ROM** Philips PCA323CD 32X IDE

**Mouse** Logitech Mouse+ Mouse

☐ Intel

**Total:** 192 MB ☐ PC66 ☐ PC133

☐ PIO4 ☐ UDMA/33

**Channel:** ☐ PM ☐ PS ☐ SM ☐ SS

☐ PCI\_Slot: 2 ☐ AGP

☐ ISA\_Slot: 1 ☐ On board

**Channel:** ☐ PM ☐ PS ☐ SM ☐ SS

☐ COM ☐ PS/2

Test Item	Result	Remark
Install OS/2 (HPFS)	PASS	
Format FDD	PASS	
XCOPY	PASS	
Diskcopy	PASS	
VGA Resolution/Color change	PASS	
DOS Windows	PASS	

OS/2 Windows	PASS	
PM function (H/W & BIOS)	PASS	

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

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

### 9.1.5 LINUX:

#### Test Configuration:

**CPU** Intel Pentium III 866MHz ☐ Intel  
**Memory** Buffalo 128MB (W981208AH-75) **Total: 256 MB** ☐ PC66 ☐ PC133  
**HDD** Maxtor 91021U2 10.2B IDE ☐ PIO4 ☐ UDMA/66  
**Channel:** ☐ PM ☐ PS ☐ SM ☐ SS  
**VGA** Diamond Viper V550 16MB SDRAM **☐ PCI\_Slot: \_\_\_\_.** ☐ AGP  
**CD-ROM** SONY CDU-4811 48X 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	6.1	English	Pass
Open Linux	2.4	English	Pass

### 9.1.6 Microsoft Windows ME:

#### Test Configuration:

**CPU** Intel Pentium III 733MHz ☐ Intel  
**Memory** V-TEC 128MB (GM72V66841ET75) **Total: 256 MB** ☐ PC66 ☐ PC133  
**VGA** Cardex Geforce2 MX 32MB SDRAM **☐ PCI\_Slot: \_\_\_\_.** ☐ AGP  
**HDD** Fujitsu MPE3102AT 10.2B IDE ☐ PIO4 ☐ UDMA/66  
**Channel:** ☐ PM ☐ PS ☐ SM ☐ SS  
**CD-ROM** Pioneer DVD-A03S 6X IDE DVD **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS  
**Sound** Creative CT5880 PCI **☐ ISA\_Slot: \_\_\_\_.** ☐ On board  
**Mouse** Logitech MouseMan 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: PooDEL Springs )	PASS	
Power Management	PASS	
Hibernate (Suspend To Disk)	PASS	
System Restore	PASS	
WinStone 99 (Business WS99)	PASS	
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	PASS	
3D Winbench 2000 (3D Quality/3D Winmark)	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

## 9.2 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
	AMIDdiag	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