

FIC FA13 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

Product Version:	<i>V 1.3</i>
BIOS Version:	<i>VAC45</i>
Report Date:	<i>2/09/2001</i>
Revision:	<i>1.06</i>



Revision History

Document Release	Date	Change Item	ECN
Revision 1.01	5/31/2000	BIOS update version to VAC42 Add support Intel Celeron 667MHz CPU	M00101-E-001
Revision 1.02	7/06/2000	BIOS update version to VAC43 Add support Cyrix III(Samuel) 533/550/600MHz CPU	M00101-E-005
Revision 1.03	8/09/2000	Add support PROMISE ATA/100 PCI IDE card Add support IBM DTLA series ATA/100 IDE HDD	
Revision 1.04	9/15/2000	Add support Windows ME (Millennium Edition)	
Revision 1.05	11/15/2000	BIOS update version to VAC44 Add support Intel Celeron (FC-PGA) 633/700/766 MHz CPU	M00101-E-009
Revision 1.06	2/09/2001	BIOS update version to VAC45 Add support Intel Celeron 800MHz CPU	M00101-E-014

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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 : FA13 PCB Rev 1.3
Product Name : VIA Apollo Pro 133 Based Mainboard
System BIOS : Award BIOS Version VAC45
PCI IDE : Internal PCI Mastre dual IDE
LPC : Winbond W83977EF-AW

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 133 (693A+596B)
System Cache	128K/256K Pipeline Burst SRAM Built-in CPU
System Memory	Maximum : 2GB SDRAM
System Slots	1 AGP and 5 PCI and 2 ISA(Optional) slots
I/O Corelogic	Winbond 83977EF-AW Support Normal,EPP,ECP mode and IR interface

4.1 Main Functionality :

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	H/W Monitoring (+/-12V,+/-5V,Vccp,+5VR)	PASS
6	Logo Genie	PASS
7	BIOS Easy Kit	PASS
8	Overclock Partner	PASS
9	BIOS Flash Protect (Guardian feature)	PASS
10	USB Function	PASS
11	Power Failure feature	PASS
12	Keyboard/PS2 mouse Power On	PASS
13	Year 2000 Compliance	PASS

4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	VIA IDE Bus Master for Win 98/98 SE	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	Award BIOS Flash ROM Utilities	7.64A	PASS
7	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 Connector	HDD LED	Open	Pass
Reset Switch	RST BTN	Open	Pass
Remote Power Switch	PWR BTN	Open	Pass
Message LED	MSG LED	Open	Pass
CPU FAN Connector	CPU_FAN	Open	Pass
Chassis FAN Connector	CHS_FAN	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
Keyboard Power-On Select	KB_PWN	2-3	Pass
System Bus Clock	FS0/FS1/FS2	2-3/1-2/1-2	Pass
Magic Tunner	FS3	2-3	Pass
LAN Wake Up	WOL	Open	Pass
IR interface	IR	Open	Pass

6. Stability Test

6.1 Strife Test : (1 days)

System Configuration		
CPU	: Pentium III 800	VGA/Audio : Creative TNT2 Ultra AGP
Cache Memory	: 256 K	Power Supply : Delta DPS-200PB103A 200W
Memory	: Micron 64MB SDRAM x 2	
HDD	: Maxtor 91360U4 13.6GB	
FDD	: Mitsumi D353F3 1.44MB	

Test Conditions:

- a. All memory banks loaded.
- b. Both IDE channels are used.
- c. Temperature Setting:
Install System on office -15°C and Climb from 25°C to 35°C and climb from 35°C to 25°C.
- d. Diagnostic Program: ZD WinStone 99 burn in test.

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

6.2 Power Cycling test (Power On/Off Test): (15 hours)

System Configuration			
CPU	: Pentium III 600	VGA/Audio	: Voodoo3 3000 AGP
Cache Memory	: 256 K	Mouse	: Microsoft PS/2 mouse
On Board Memory	: Micron SDRAM 256MB	Power Supply	: Delta DPS-200PB 200W
FDD	: 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

6.3 Field (Stress) Test: Dynamic Burn-in Tests

Software Name	Duration	Result
SCO UNIX Open Desktop 5.04	24 hr.	Pass
Test Configurations for SCO	Intel Pentium III 667MHz Adaptec ASC-29160 TEAC CD-56RS 24X SCSI CD-RW Seagate ST-32272W 2.2GB Ultra Wide SCSI Disk SIEMENS 64MB SDRAM Memory (64MB x 2) ELSA ERAZOR III Pro 32MB SGRAM AGP VGA Test Program : Create a batch file	
Winstone 99 Under WIN98 SE	24hr.	Pass
Test Configurations for Win 98	Intel Pentium III 750MHz Quantum Fireball LA Ultra DMA66 4.3GB HDD KingStone 128MB SDRAM Memory. (128MB x 3) ELSA ERAZOR X ² 32MB DDRAM AGP VGA	
BAPCO for Windows NT 4.0	24hr.	Pass
Test Configurations for SYSmark 32 under Windows NT 4.0	Intel Pentium III 733MHz IBM DJNA-371350 Ultra DMA66 13.5GB IDE HDD Apacer 64MB SDRAM Memory.(64MB x 3) Creative 3D Blaster Geforce 256 32B SDRAM AGP VGA	



7. Base Operating Systems HCT Tests For PC99

Operating System	Company	HCT Name	Result
Windows 2000	Microsoft	Microsoft WHQL HCT 9.5	<i>Pass</i>
Test Configurations	Intel Pentium III 667MHz 128MB SDRAM 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 2000 Professional

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

Intel Pentium III 850MHz (Bus clock 100MHz)

HDD Maxtor 91021U2 10.2GB IDE

☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA Matrox Millennium G400 MAX

☐ PCI_Slot: ____ ☐ AGP

CD-ROM Creative CD4834E 48X IDE D-ROM

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Sound Creative PCI64

☐ ISA_Slot: ____ ☐ PCI_Solt: 3

Mouse Microsoft IntelliMouse PS/2 Mouse

☐ COM ☐ PS/2

The following SDRAM module test cool boot, Install Win 98 SE/2000 and run CC Winstone 2000 under Windows 98 SE/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 (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
Hyundai	HY57V65802B-10P	No	128MB	D	VSJ-D128M2 (BUFFALO)
SIEMENS	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
KingStone	TC59SM716FT-80	No	64MB	S	KGM100X64C2/64 (Toshiba)
	PTT3S128081T-8	No	128MB	S	DT100128M8-T01151
Winbond	W981216AH-75	No	128MB	S	VSJ-S64M2

8.1.3 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
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
Infineon	HYB39S128800CT-7.5	No	256MB	D	HYS64V32220GU-7.5-C
Mitsubishi	M2V64S30BTP	No	64MB	S	MH8S64BALD-6
Winbond	W981208AH-75	No	128MB	S	VS133-128M
KingMAX	KSV884T4A1A-07	No	64MB	S	MPG643S-883
	KSV884T4A1A-07	No	128MB	D	MPGA83S-883
Hitachi	5264805FTT75	No	64MB	S	VS133-64M
	5264805FTT75	No	128MB	D	VS133-128M
Apacer	HYB39S64800BT-7.5	No	64MB	S	71.63350.114 (Infineon)
	AM2V648C2T75	No	64MB	S	71.63350.034 (Apacer)
	HYB39S64800BT-7.5	No	128MB	D	71.73350.114 (Infineon)
	HYB39S64800AT-7.5	No	128MB	D	71.73350.114 (SIEMENS)
	AM2V648C2T75	No	128MB	D	71.73350.034 (Apacer)

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 (133x6.0) ☐ Intel

Memory Apacer 128MB(HYB39S64800BT-7.5) Total: 128 MB ☐ PC100 ☐ PC133

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

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

CD-ROM Afreedy DD-4008E 8X IDE DVD Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Sound Creative Sound Blaster Live! PCI ☐ ISA_Slot: ☐ PCI_Slot: 2

Mouse Logitech MouseMan Mouse ☐ COM ☐ PS/2

The following PCI/AGP VGA cards test Final Reality V1.01/ 3D WinBench 99 /3Dmark 2000 under Windows 98 SE(ACPI)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.

AGP Display Adapter Products

Vendor	Model Name	Product Description	Driver version
ATI	Rage pro	XPERT@Play 98	4.11.2611
	Rage 128GL	Rage Fury	4.11.6222
	Rage 128GL	XPERT 128	4.11.6222
	Rage 128VR	XPERT 2000	4.11.6222
	Rage 128GL	All-In-Wonder 128	4.11.6222
	Rage 128 Pro	Rage Fury MAXX	4.11.7936
	Rage 128 Pro	Rage Fury Pro	4.11.6249
ASUS	S3 Savage 3D	AGP-V3100	4.11.01.4005
	3Dfx Voodoo Banshee	AGP-V3200	4.11.01.0378
	S3 Savage 4	AGP-V3500	1.00.0603
	Riva TNT2	AGP-V3800	4.12.01.0375
	Riva GeForce 256	AGP-V6600	4.12.01.0368
	Riva GeForce 256 DDR	AGP-V6800	4.12.01.0368
Matrox	MGA-G200	Millennium G200	4.11.01.2410
	MGA-G200A	Millennium G200 LE	4.11.01.2410
	MGA-G400	Millennium G400 SH	4.12.01.1520
	MGA-G400	Millennium G400 MAX	4.12.01.1520
Diamond	Riva TNT	Viper V550	4.12.01.0368
	Riva TNT2	Viper V770	4.12.01.0368
	Riva TNT2 Ultra	Viper V770 Ultra	4.12.01.0368
3dfx	Voodoo 3 2000	3dfx Voodoo 3 2000	4.12.01.1222
	Voodoo 3 3000	3dfx Voodoo 3 3000	4.12.01.1222
ELSA	3Dlabs Permedia II	Gloria Synergy	4.11.01.0203
	3Dfx Voodoo Banshee	Victory II	4.11.01.0300
	S3 Savage 4	Winner II	4.11.01.0310
	Riva TNT2	Synergy II	4.11.01.0300
	Riva TNT2	ERAZOR III	4.12.01.0112
	Riva TNT2 M64	ERAZOR III LT	4.12.01.0112

	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 ²	4.12.01.0104
Gigabyte	Riva TNT2 -A	GA-660 Plus	4.11.01.0208
Hercules	Riva GeForce 256	3D Prophet DDR-DVI	4.12.01.0377
YUAN	Riva TNT2 M64	3D Xtreme 2	4.12.01.0368
Creative	S3 Savage 4	3D Blaster Savage 4	4.11.01.2104
	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra	4.12.01.2207
	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
Leadtek	Riva TNT2 M64	WinFast 3D S325	4.11.01.0208
	Riva Vanta	WinFast 3D S320V	4.11.01.0208
	Riva GeForce 256	Winfast GeForce256	4.12.01.0372
	Riva GeForce 256 GTS	Winfast GeForce 2 GTS	4.12.01.0384
	SiS 300	Winfast VR300	4.12.01.1020

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
Creative	S3 Savage 4	3D Blaster Savage 4	4.11.01.2104
ASUS	Riva TNT2	PCI-V3800	4.11.01.0225

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 600MHz(133X4.5) ☐ Intel
 Memory Micron 64MB (MT48LC8M8A2-75B) Total: 128 MB ☐ PC100 ☐ PC133
 VGA ATI XPERT 2000 ☐ PCI_Slot: ☐ AGP
 HDD Quantum Atlas 10K 18.2GB ☐ Ultra II SCSI ☐ Ultra Wide
 Seagate ST-39173LW 9.1GB ☐ Ultra SCSI ☐ Ultra Wide
 CD-ROM Plector PX-32Tsi 32X SCSI ☐ Ultra SCSI ☐ Ultra Wide
 Sound Creative PCI128 ☐ ISA_Slot: ☐ PCI_Slot: : 3
 Mouse Logitech MouseMan Mouse ☐ COM ☐ PS/2

The following PCI SCSI cards test WinStone 99/BAPCO under Windows 98 SE/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	BT-930	Buslogic FlashPoint LT PCI SCSI	PCI
	BT-958	Buslogic BT-958 Narrow SCSI	PCI
Initio	INI-9100UW	Initio INI-9100UW PCI SCSI	PCI
Tekram	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 750MHz ☐ Intel
 Memory SIEMENS 64MB(HYB39S64800CT-8)Total: 128 MB ☐ PC100 ☐ PC133
 VGA ELSA ERAZOR III 32MB SDRAM ☐ PCI_Slot:____. ☐ AGP
 HDD Maxtor 91021U2 10.2GB IDE ☐ PIO4 ☐ UDMA/66
 Channel: ☐ PM ☐ PS ☐ SM ☐ SS
 CD-ROM TEAC CD-532EA 32X IDE Channel: ☐ PM ☐ PS ☐ SM ☐ SS
 Mouse Genius NetMouse 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	F-1156IV/R2 KB3497	Internal/PCI
GVC	SF-1156HV/R21 KB3471	Internal/ISA
Turbo	Motorola SM56 Voice PCI	Internal/PCI
HSP	V1456VQH-P1 56Kbps	Internal/PCI
Archtek	A12PW19085A 56Kbps	Internal/PCI
Conexaut	Soft 56K data/Fax/RTAP	Internal/PCI
CIS	PSL 56K data/Fax/RTAP	Internal/PCI
Diamond	Supra MAX 56K ITU & flex	Internal/PCI
Askey	1456VQH75	Internal/PCI

8.2.4 Sound Adapter Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A
CPU Intel Pentium 800MHz ☐ Intel
Memory Apacer 128MB (HYB39S64800AT-7.5) **Total:** 128 MB ☐ PC100 ☐ PC133
VGA YUAN 3D Xtreme2 ☐ PCI_Slot: ☐ AGP
HDD Maxtor 93073U6 30.7GB IDE ☐ PIO4 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
CD-ROM SONY DDU220E 5X IDE DVD **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
Mouse Microsoft IntelliMouse PS/2 Mouse ☐ COM ☐ PS/2

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

Vendor	Model Name	Product Description	Interface
Creative	ES1370	Sound Blaster PCI 64	PCI
	CT-4810	VIBRA 128 (CT2518-DBQ)	PCI
	CT-4750	Sound Blaster PCI128 Digital (CT5880)	PCI
	CT-4620	Sound Blaster Live!	PCI
	CT-4860	Sound Blaster Live! Platinum	PCI
Diamond	Avortex AU8830	Monster Sound MX300	PCI
Top Solution	YAMAHA 744	Ultra Live 5.1	PCI
FIC	ESS Canyon 3D	Hi-Five PCI Sound Card	PCI
Mediatek	Avortex	A3D PCI Sound Card	PCI
YAMAHA	YAMAHA 724	YAMAHA 724	PCI
AudioExcel	CMI8738	MD Mate	PCI
Formosa	SC-4237	Crystal CX4237B ISA PnP Sound	ISA PnP

8.2.5 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 800MHz ☐ 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/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
CD-ROM SONY CDU4811 48X IDE **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
Sound Creative PCI128 ☐ ISA_Slot: ☐ PCI_Slot: : 3

**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 + SP6CPU Intel Pentium III 550MHz ☐ IntelMemory SIEMENS 64MB (HYB39S64800BT-8)Total: 128 MB ☐ PC100 ☐ PC133VGA ERAZOR III Pro 32MB SGRAM ☐ PCI_Slot: ☐ AGPSCSI AHA -2940U2W Ultra 2 SCSI ☐ ISA ☐ PCI_Solt: 2Mouse 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	Fireball SE	Ultra SCSI HDD 8.4GB
		Viking II	Ultra2 Wide SCSI HDD 4.5GB
		Atlas II	Ultra SCSI HDD 4.5GB
		Atlas III	Ultra Wide SCSI HDD 9.1GB
		Atlas III 10K	Ultra Wide SCSI HDD 18.2GB
	Seagate	ST-34555N	Ultra SCSI HDD 4.5GB
		ST-34520W	Ultra SCSI HDD 4.5GB
		ST-32272W	Ultra Wide SCSI HDD 2.2GB
		ST-34573LW	Barracuda 9LP Ultra2 4.5GB
		ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST-34502LW	Cheetah 9LP Ultra2 Wide 4.5GB
		ST318404LW	Cheetah Ultra2 Wide 18GB
	IBM	DCAS34330	4.3GB Ultra SCSI HDD
		DCAS34330	4.5GB Ultra Wide SCSI HDD
		DMVS IEC-950	Ultra2 Wide 36GB
	WD	WDE2170	4.3GB Ultra Wide SCSI HDD
CD-ROM	Plextor	PX-32Tsi	Ultra SCSI CD-ROM 32X
	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
CD-RW	YAMAHA	CRW 4416S	SCSI-II CD-RW 16R4W
	TEAC	CDR 56S	SCSI-II CD-RW 24R6W

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 Infineon 256MB(HYB39S128800CT-7.5)Total: 768 MB ☐ PC100 ☐ PC133

CD-ROM SONY CDU4811 48X IDE Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA Diamond Viper V770 32MB SDRAM ☐ PCI_Slot: . ☐ AGP

Sound Creative VIBRA 128 ☐ ISA_Slot: . ☐ PCI_Slot: : 2

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

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

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

8.3.2.2 IDE Ultra ATA/66

Vendor	Model Name	Mode	Capacity
WD	AC28400	Ultra ATA 66	8.4GB



	AC310200	Ultra ATA 66	10.2GB
	AC313000	Ultra ATA 66	13GB
Seagate	ST-36421A	Ultra ATA 66	6.4GB
	ST-313032A	Ultra ATA 66	13GB
	ST-317242A	Ultra ATA 66	17.2GB
Fujitsu	MPD3064AT	Ultra ATA 66	6.4GB
	MPD3084AT	Ultra ATA 66	8.4GB
	MPD3108AT	Ultra ATA 66	10.8GB
	MPE3064AT	Ultra ATA 66	6.4GB
	MPE3102AT	Ultra ATA 66	10.2GB
	MPE3102AH	Ultra ATA 66	10.2GB
	MPE3204AT	Ultra ATA 66	20.4GB
	MPE3204AH	Ultra ATA 66	20.4GB
Quantum	Fireball CR	Ultra ATA 66	4.3GB
	Fireball CR	Ultra ATA 66	8.4GB
	Fireball CX	Ultra ATA 66	10.2GB
	Fireball CX	Ultra ATA 66	13GB
	Fireball KA	Ultra ATA 66	9.1GB
	Fireball KA	Ultra ATA 66	13.6GB
	Fireball LA	Ultra ATA 66	8.4GB
	Fireball Plus LM	Ultra ATA 66	20.5GB
	Fireball LM	Ultra ATA 66	30GB
IBM	DJNA-370910	Ultra ATA 66	9.1GB
	DJNA-352030	Ultra ATA 66	20.3GB
	DPTA-372730	Ultra ATA 66	27.3GB
	DPTA-353750	Ultra ATA 66	37.5GB
Maxtor	91021U2	Ultra ATA 66	10.2GB
	91024U4	Ultra ATA 66	10.2GB
	91360U4	Ultra ATA 66	13.6GB
	91531U3	Ultra ATA 66	15.3GB
	92040U6	Ultra ATA 66	20GB
	92049U4	Ultra ATA 66	20GB
	92720U8	Ultra ATA 66	27GB
	93073U6	Ultra ATA 66	30.7GB
	53073U6	Ultra ATA 66	30.7GB
	94098U8	Ultra ATA 66	40.9GB
	54098U8	Ultra ATA 66	40.9GB
Samsung	SV2046D	Ultra ATA 66	20.4GB

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

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
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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 KingMAX 64MB (KSV884T4A1A-08A) Total: 128 MB ☐ PC100 ☐ PC133

VGA Matrox Millennium G400 SH 32MB SGRAM ☐ 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 PCI128 ☐ ISA_Slot: ____ ☐ PCI_Slot: : 2

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 Intel 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 .
☐ Win 2000 Ver: 5.00.2195 .

CPU Intel Pentium III 733MHz ☐ Intel

Memory Hitachi 128MB (5264805FTT75) Total: 128 MB ☐ PC100 ☐ PC133

HDD Maxtor 91531U3 15.3GB IDE ☐ PIO4 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA ATI Rage Fury MAXX 64MB SDRAM ☐ PCI_Slot: ____ ☐ AGP

Sound Creative PCI 64 ☐ ISA_Slot: ____ ☐ PCI_Slot: : 2

Mouse Logitech TrackmanMarble Mouse

☐COM ☐ PS/2

The following IDE devices play VCD/DVD over night under Windows 98 SE/2000 with Intel 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
Acer	650P	ATAPI CD-ROM 50X UDMA2
LITE-ON	LTN-301	ATAPI CD-ROM 32X UDMA2
	LTN-403L	ATAPI CD-ROM 40X UDMA2
	LTN-485S	ATAPI CD-ROM 48X UDMA2
Creative	CD4834E	ATAPI CD-ROM 48X UDMA2
	CD5220E	ATAPI CD-ROM 52X UDMA2
Philips	PCA323CD	ATAPI CD-ROM 32X UDMA2
SONY	CDU-4811	ATAPI CD-ROM 48X UDMA2
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 UDMA2
Mitsumi	CRMC-FX4820T	ATAPI CD-ROM 48X UDMA2
NEC	CDR-1900A	ATAPI CD-ROM 32X Mode4
Hitachi	CDR-8430	ATAPI CD-ROM 32X Mode4
BTC	BCD 48SB	ATAPI CD-ROM 48X UDMA2

8.3.4.2 ATAPI DVD-ROM:

Vendor	Model Name	Product Description
Panasonic	SR-8583-BXX	ATAPI DVD-ROM 5.0X
	SR-8584B	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
Afreedy	DD-4008E	ATAPI DVD-ROM 8.0X
	DD-4010E	ATAPI DVD-ROM 10X
Creative	DVD8400E	ATAPI DVD-ROM 8.0X
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 ☐ Win 200 Professional

CPU Intel Pentium III 733MHz ☐ Intel

Memory Apacer 64MB (HYB39S64800BT-7.5)Total: 128 MB ☐PC100 ☐ PC133

VGA ELSA ERAZORX 328MB SDRAM ☐PCI_Slot:____. ☐ AGP

HDD Quantum Fireball LA 8.4GB IDE ☐PIO4 ☐ UDMA/66

Channel: ☐ PM ☐PS ☐SM ☐SS

**CD-ROM** SONY DDU220E 5X IDE DVD**Sound** Creative Sound Blaster Live!**Mouse** Microsoft IntelliMouse Mouse**Channel:** ☐PM ☐PS ☒SM ☐SS☐ISA_Slot: __. ☒PCI_Slot: : 3☐COM ☒PS/2

The following Floppy devices were tested by format disk, boot and read/write file (large file) under Windows 2000.

Vendor	Product Description
Panasonic	LKM-F434-105 LS-120
Zip	Z100ATAPI ZIP device 100MB
	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 733MHz**Memory** Hitachi 128MB (5264805FTT75)**HDD** Maxtor 91021U2 10.2GB IDE**CD-ROM** TEAC CD-532EA 32X IDE**VGA** ASUS AGP-V3200 16MB SGRAM**Sound** FIC Hi-Five PCI**Mouse** Logitech TrackMan Marble Mouse☒ Intel**Total:** 256 MB ☐PC100 ☐PC133☐PIO4 ☒UDMA/66**Channel:** ☐PM ☐PS ☐SM ☐SS**Channel:** ☐PM ☐PS ☒SM ☐SS☐PCI_Slot: __. ☒AGP☐ISA_Slot: __. ☒PCI_Slot: : 3☐COM ☒PS/2

The following Parallel/Serial devices be tested under Windows 98 SE with Intel 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
SONY	Dancing II	COM
Kodak	DC210 InfraRed/Serial port Digital camera	COM/IR
ACTisys	ACT-IR210L	IR
	ACT-IR220L	COM(IR)

IRwave	IRwave320F	IR
	IRwave320S	COM(IR)
ADI	CommuPack 56K SVD Modem	COM
USR	Sportster 56K Faxmodem Modem	COM
GVC	56K/K56 FLEX ASVD Modem	COM

8.4.2 Mouse Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A

CPU Intel Pentium III 750MHz ☐ Intel

Memory NEC 128MB (D4564841G5-A80-9JF) Total: 128 MB ☐ PC100 ☐ PC133

HDD Fujitsu MPE3102AH 10.2GB IDE ☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

CD-ROM Creative CD4834E 48X IDE

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA ASUS AGP-V3800 32MB SGRAM

☐ PCI_Slot: ☐ AGP

Sound YAMAHA 744 PCI

☐ ISA_Slot: ☐ PCI_Slot: : 2

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 SIEMENS 64MB (HYB39S64800BT-7.5) Total: 128 MB ☐ PC100 ☐ PC133

HDD Maxtor 92040U6 20.4GB IDE ☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

CD-ROM Creative CD4834E 48X IDE
VGA Voodoo3 3000 16MB SDGRAM
Sound Creative Sound Blaster Live!
Mouse Logitech First Mouse+ Mouse

Channel: ☐PM ☐PS ☐ SM ☐SS
☐PCI_Slot:____. ☐ AGP
☐ISA_Slot:____. ☐ PCI_Slot: : 3
☐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
		USB Wheel Mouse
		USB MouseMan Wheel
	Microsoft	IntelliMouse USB/PS2 Mouse (w IntelliEye)
	Twinhead	S-Mouse
	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
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 & GamePad

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 Hitachi CDR-8430 32X IDE **Channel:** ☐PM ☐PS ☒SM ☐SS
VGA Creative Riva TNT2 32MB SDRAM ☐PCI_Slot:____. ☒AGP
Sound Creative Sound Blaster Live! ☐ISA_Slot:____. ☒PCI_Slot: :_2
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-103A	200W	ATX
	DPS-200PB-103D	200W	ATX
	DPS-200PB-103F	200W	ATX
HIPRO	HP-250NLXAK Rev:01	250W	NLX
	HP-200 NLXAG	200W	NLX
	HP-200NLXAA	250W	NLX
	HP-250NLXAA	250W	NLX
	HP-300SN Rev:02	300W	ATX
Seventeam	ST-250GL	250W	ATX
	ST-301HR	300W	ATX
	ST-400GL	400W	ATX
Enlight	ATX-730	300W	ATX
	HPC-200G2 Rev:A0-01	200W	ATX
	HPC-250G2 Rev:A0-01	250W	ATX
FSP	FSP250-61GN(AMD)	250W	ATX

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 SIEMENS 128MB (HYB39S64800BT-7.5)Total: 256 MB ☐PC100 ☐PC133
HDD Maxtor 54098U8 40GB IDE ☐UDMA/66 ☒UDMA/66



Channel: ☐ PM ☐ PS ☐ SM ☐ SS

DVD-ROM Panasonic CDR-8584B 5X IDE Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA ASUS AGP-V3800 32MB SDRAM ☐ PCI_Slot: ____ ☐ AGP

Sound Creative PCI 128 Digital ☐ ISA_Slot: ____ ☐ PCI_Slot: : 2

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	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 800MHz ☒ Intel
Memory Apacer 128MB (HYB39S64800BT-7.5) **Total: 256 MB** ☐ PC100 ☒ PC133
HDD Maxtor 94098U8 40.9GB IDE ☐ PIO4 ☒ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
VGA ELSA ERAZOR X 32MB SDRAM ☐ PCI_Slot: ____ ☒ AGP
Sound Creative PCI 128 ☐ ISA_Slot: ____ ☒ PCI_Slot: :_2
CD-ROM Lite-On LTN-485S 48X IDE **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Mouse Microsoft IntelliMouse Mouse ☐ COM ☒ PS/2

Test Item	Result	Remark
FDISK (FAT32)	PASS	
Install Win 98	PASS	
Format FDD	PASS	
Diskcopy	PASS	
Large file Copy	PASS	
USB device test	PASS	
Trend Anti-Virus Install & Test	PASS	
Device Management check (No Caution)	PASS	
Sound/VGA/LAN IRQ change (PnP function)	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	
DVD Video CD play (name: Deep Blue Sea)	PASS	
Video CD play (name: TOP GUN)	PASS	
Drive Converter (FAT32)	PASS	
PM function by WIN 95/98 (H/W)	PASS	
WinStone 99	PASS	
WinBench 99	PASS	
CC WinStone 2000	PASS	
3D Winbench 2000	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 800MHz ☐ Intel
Memory Apacer 128MB (HYB39S64800BT-7.5) **Total: 256 MB** ☐ PC100 ☐ PC133
HDD Fujitsu MPE3102AT 10.2GB IDE ☐ PIO4 ☐ UDMA/33 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
VGA ELSA ERAZOR X 32MB SDRAM ☐ PCI_Slot: ____ ☐ AGP
Sound Creative VIBRA 128 ☐ ISA_Slot: ____ ☐ PCI_Slot: : 3
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	
VGA Resolution/Color change (800x600x32bit / 1024x768x16bit)	PASS	
Auto Shutdown (system power off)	PASS	
Defrag test	PASS	
VCD Video CD play (name: <u>Mercury Rising</u>)	PASS	
PM function by Win2000 (H/W & Time out & Stand by)	PASS	
Sound/VGA/LAN IRQ change (PnP function)	PASS	
Hibernate (Suspend To Disk)	PASS	
Install Office 2000	PASS	
WinStone 99	PASS	
CC WinStone 2000	PASS	
WinBench 99	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	5.00.2195	English	Microsoft	Pass

9.1.3 Microsoft Windows NT 4.0 + Service Pack 6:

Test Configuration:

CPU Intel Pentium III 733MHz ☒ Intel
Memory Apacer 128MB (HYB39S64800BT-7.5) **Total: 256 MB** ☐ PC100 ☐ PC133
HDD Fujitsu MPE3102AT 10.2GB IDE ☐ PIO4 ☐ UDMA/33 ☐ UDMA/66
VGA ELSA ERAZOR X 32MB SDRAM ☐ PCI_Slot: ____ ☐ AGP
Sound Creative VIBRA 128 ☐ ISA_Slot: ____ ☐ PCI_Slot: : 2
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 (NTFS)	PASS	
Install Service Pack 6	PASS	
Format FDD	PASS	
Diskcopy	PASS	
IDE Bus Master install	PASS	
VGA Resolution/Color change	PASS	
Shutdown	PASS	
Shutdown & Restart	PASS	
LS-120/ZIP install & working	PASS	
WinStone 99	PASS	
CC WinStone 2000	PASS	
WinBench 99	PASS	
BAPCO for Win NT 4.0 (SYSmark32)	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 ☐ Intel
Memory Apacer 64MB (HYB39S64800BT-7.5) **Total: 128 MB** ☐ PC100 ☐ PC133
HDD Fujitsu MPB3032AT 3.2GB IDE ☐ PIO4 ☐ UDMA/33
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
VGA ELSA ERAZOR II 16MB SDRAM ☐ PCI_Slot: ____ ☐ AGP
Sound Creative PCI 128 ☐ ISA_Slot: 1 ☐ PCI_Slot: : 2
CD-ROM Pioneer DVD-114 10X 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 & 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 667MHz ☐ Intel
Memory Micron 128MB (MT48LC8M8A2-75B) **Total: 256 MB** ☐ PC100 ☐ PC133
HDD Maxtor 93073U6 30GB IDE ☐ PIO4 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
VGA ELSA ERAZOR II Pro 32MB SGRAM ☐ PCI_Slot: ____ ☐ AGP
CD-ROM SONY DDU220E 5X IDE DVD **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS



LAN Intel 82559 10/100 Etherlink

☐ PCI_Slot: 2

Mouse Logitech Mouse+ Mouse

☐ COM ☐ PS/2

Test Item	Result	Remark
Install Linux	PASS	
Format FDD	PASS	
Connect to Internet	PASS	
Video CD play (name: <u>Mercury Rising</u>)	PASS	
Start Office 5.2	PASS	
Word Perfect 8.0	PASS	
Nbench	PASS	
Hwinfo	PASS	
ab	PASS	
UnixBench	PASS	

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	2.3	English	Pass
	2.4	English	Pass

9.1.6 Microsoft Windows ME:

Test Configuration:

CPU Intel Pentium III 800MHz

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

HDD IBM DTLA-305020 20.5GB IDE

☐ PIO4 ☐ UDMA/33 ☐ UDMA/66Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA ATI Xpert 2000 32MB SDRAM

☐ PCI_Slot: ☐ AGP

Sound Creative Sound Blaster Live!

☐ ISA_Slot: ☐ PCI_Slot: : 3

CD-ROM Pioneer DVD-11516X IDE DVD

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Mouse Microsoft IntelliMouse Mouse

☐ COM ☐ PS/2

Test Item	Result	Remark
FDISK (FAT32)	PASS	
Install OS	PASS	
Format FDD	PASS	
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Large file Copy (one file Over 500MB)	PASS	
Install Office 2000	PASS	
Media Player 7.0 (play MIDI/MP3/CD Audio)	PASS	
LS-120/ZIP install & working	PASS	
VCD/DVD play (name: <u>Mercury Rising</u>)	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 2000		Windows 98	Chinese	Pass
		9.0.2720	Windows 98	English	Pass
Communication	BITWare	3.30.10	Windows 98	English	Pass
	WinFAX Pro for Win 95	4.0	Windows 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 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 98	English	Pass
	ZD Winstone 99	1.2	Windows 98	English	Pass
	ZD WinBench 99	1.1	Windows 98	English	Pass
	QAPLus	5.6	DOS	English	Pass
	AMIDdiag	6.0	DOS	English	Pass
	Landmark(Speedcom)	2.0	DOS	English	Pass
	Check IT Pro	5.01	Windows 98	English	Pass
	CheckIt 98		Windows 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 98	English	Pass
Internet	Netscape	4.6	Windows 98	English	Pass
	Internet Explore	4.0	Windows 98	English	Pass



		5.0	Windows 98	English	Pass
CD Title Game	3D Ultra Pin Ball	1.0	Windows 95/98	English	Pass
	Duke Nukem 3D	1.0	DOS	English	Pass
	Mech Warrior2	1.0	Windows 95/98	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)		Win98	English	Pass
	WARCRAFT II TIDES OF DARKNESS		DOS/WIN98	English	Pass
	DOOM II	1.0	Window 98	English	Pass
	War Wind		Window 98	English	Pass
	Magic 2 Carpet		Window 98	English	Pass
	YAMARAJA		Window 98	English	Pass
	TOMB RAIDER II		Window 98	English	Pass
	Lands of Lore II		Window 98	English	Pass
	The Magic School Bus			English	Pass
	Flight Simulator 98		Window 98	English	Pass
	Dagger fall		Window 98	English	Pass
	Quake II		Window 98	English	Pass
	Test Drive 4		Window 98	English	Pass
	AGE of EMPIRES		Window 98	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 98	English	Pass
	AGE of EMPIRES(Expansion)		Window 98	English	Pass
	Moto Racer 2		Window 98	English	Pass
	Need for Speed III		Window 98	English	Pass
	Klingon Honor Gurd		Window 98	English	Pass
	F-15		Window 98	English	Pass
	SIM City 3000		Window 98	English	Pass
	Baldur's Gate		Window 98	English	Pass
	STAR WARS ROGUE SQUADRON 3D		Window 98	English	Pass
	X-WING COLLECTOR SERIES		Window 98	English	Pass
	TUOK SEED OF EV 2		Window 98	English	Pass
	Lands of Lore III		Window 98	English	Pass

Popvlov		Window 98	English	Pass
Need For Speed -High Stakes		Window 98	English	Pass
Civilization		Window 98	English	Pass
DESCENT III		Window 98	English	Pass
Starcraft		Window 98	English	Pass
Starcraft – Expansion Set(Brood War)		Window 98	English	Pass
TIBERIAN SUN		Window 98	English	Pass
Flight Unlimited III		Window 98	English	Pass
Black Moon Chronicles		Window 98	English	Pass
Unreal – Return to NA Pali		Window 98	English	Pass
Discworld NOIR		Window 98	English	Pass
Return to Krondor		Window 98	English	Pass
DRAKAN – Order of the Flame		Window 98	English	Pass
Outcast		Window 98	English	Pass
Age of Empires II		Window 98	English	Pass
Might and Magic VII – For Blood and Honor		Window 98	English	Pass
TOMB RAIDER 4		Window 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 Drive 6		Window 98	English	Pass
Slave Zero		Window 98	English	Pass