

# **FIC VB-601 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT**

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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** : VB-601 PCB Rev 1.1  
**Product Name** : Intel 440BX Based Mainboard  
**System BIOS** : Award BIOS Version 1.14MC10  
**PCI IDE** : Internal PCI Mastre dual IDE  
**I/O** : Winbond 83977TF-A

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## 3. Mainboard CPU Supports:

Intel Processors	Bus	Status
Pentium II 233MHz	66	Pass
Pentium II 266MHz	66	Pass
Pentium II 300MHz	66	Pass
Pentium II 333MHz (Deschute)	66	Pass
Pentium II 350MHz (Deschute)	100	Pass
Pentium II 400MHz (Deschute)	100	Pass

## 4 System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	Intel 440BX
System Cache	0K/256K/512K Pipeline Burst SRAM Built-in CPU card
System Memory	Maximum : 1GB
	168 pins single RAS and Double RAS DIMM RAM Module
	SDRAM
PCI Bus Clock	Synchronous mode (depended on CPU Clock divide by 2)
System Slots	1 AGP and 5 PCI and 2 ISA slots
IO Corelogic	Winbond 83977TF-A Support Normal,EPP,ECP mode and IR interface
PCI IDE	Intel PIIX4E internal Bus Master PCI IDE.

## 5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPK	Open	Pass
Keyboard Lock and Power LED	KB_LOCK	Open	Pass
Turbo LED Connector	TB_LED	Open	Pass
Suspended Switch	SP_SW	Open	Pass
Suspended LED	SP_LED	Open	Pass
IDE LED Connector	IDE_LED	Open	Pass
Reset Switch	RST	Open	Pass
Remote Power Switch	RPW_SW	Open	Pass
CPU FAN Connector	FAN1	Open	Pass
Chassis FAN Connector	FAN2	Open	Pass
LAN Wake Up	WOL	Open	Pass
Clear CMOS	SW1-5	Off	Pass
Sound Blaster_Link	SB_LINK	Open	Pass
Clear Password Switch	SW1-6	Off	Pass
BIOS Boot Block Select	EP1 / EP2	1-2 / 1-2	Pass
CPU Clock Rate	SW1-1~4	On,On,Off,On	Pass

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

Software Name	Duration	Result
BAPCO 95 for Windows NT	24 hr.	<i>Pass</i>
Test Configurations for NT	Intel Pentium II 400MHz Matrox Millennium II 8MB WRAM PCI VGA 128MB SDRAM Memory Adaptec AHA 2940UW Seagate Wide SCSI ST-32272W 2.2GB SCSI HDD	
Novell Server version 4.11	48 hr.	<i>Pass</i>
Test Configurations for Novell	Intel Pentium II 350MHz Adaptec AHA 3940 Quantum Fireball SE 2.1GB SCSI HDD 3COM 3C595 10/100 PCI Netware card (Connect to 4-6 workstation) 64MB SDRAM Memory 3Dlabs PreMedia 2 4MB SGRAM AGP VGA Test Program : Novell Nwtest	
SCO UNIX Open Desktop 5.0	24 hr.	<i>Pass</i>
Test Configurations for SCO	Intel Pentium II 333MHz SONY CDU-55S SCSI CD-ROM Quantum Fireball 2.1GB TM2110S SCSI Disk 128MB Memory STB Riva128 4MB SGRAM PCI VGA Test Program : Create a batch file	

Software Name	Duration	Result
IBM OS/2 Warps 3.0	24 hr.	<i>Pass</i>
Test Configurations for OS/2	Intel Pentium II 400MHz Maxtor Diamond 88400D8 Ultra DMA 8.4GB HDD Intel i740 4MB SGRAM AGP VGA 64MB SDRAM Memory Test program : Create Batch file	
Winstone 98 Under WIN95	48hr.	<i>Pass</i>
Test Configurations for Winstone 98	Intel Pentium II 400MHz Quantum Fireball SE Ultra DMA 4.3GB HDD 64MB SDRAM Memory. ATI Rage pro Turbo 4MB SGRAM AGP VGA	
SYSmark 32 for Windows 95	24hr.	<i>Pass</i>
Test Configurations for SYSmark 32 under Windows 95	Pentium II 400MHz IBM DHEA-36480 Ultra DMA/33 6.4GB IDE HDD 64MB SDRAM Memory. 3Dlabs Premedia 2 4MB SGRAM AGP VGA	

## 7. Base Operating Systems Certification Tests

Operating System	Company	HCT / SCT Name	Result
IBM OS/2 Version 3.0	IBM	OS/2	<i>Pass</i>
Test Configurations	Intel Pentium II 350MHz On board 64MB Memory. Matrox Mystique 4MB SGRAM PCI VGA		
Windows NT Version 4.00	Microsoft	Window NT HCT 7.2	<i>Pass</i>
Test Configurations	Intel Pentium II 400MHz On board 128MB Memory. 3Dlabs Permedia 2 8MB SGRAM AGP VGA		
Windows 95	Microsoft	Window 95 HCT 7.2	<i>Pass</i>
Test Configurations	Intel Pentium II 400MHz On board 128MB Memory. ATI Rang pro 8MB SGRAM AGP VGA		

## 8. Hardware Compatibility Test Suite

### 8.1 Memory

#### 8.1.1 SDRAM DIMM Module (PC66)

Vender	IC Part No.	ECC	Size	Side	Module No.
Fujitsu	811171622A-100FN	No	8MB	S	
	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
LGS	GM72V16821BT10	No	16MB	S	
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
NEC	D4516821G5-A67-7	No	16MB	S	MC-452AB644F-A67
	D4516821GS-A12	No	16MB	S	MC-452AB644F-A12
	D4516821GS-A10	No	24MB	S	SM564037074N6CQ
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
	KM48S2020CT-GH	Yes	32MB	D	M04B032M2EE72208-C2100
	KM416S4030AT-G10	No	64MB	D	KMM366S824AT-G0
	KM48S8030AT-G10	No	64MB	S	KMM366S823AT-G0
SIEMENS	HYB39S16800T-10	No	16MB	S	NYS64V2000GU-10
	HYB39S16800AT-10	No	16MB	S	HYS64V2100GU10
	HYB39S16800AT-10	Yes	32MB	D	HYS72V4120GU10
TI	TMX626812DGE-12A	No	16MB	S	TX2SR64EPU-12A
	TMS626812DGE-12A	No	16MB	S	TM2SN64EPU-12A
	TMS626812DGE-12A	No	32MB	D	TX4SR64EPU-12A
Toshiba	TC59S1616AFT-12A	No	8MB	S	THMY641051AEG-12A
	TC59S1608AFT-12A	No	16MB	S	THMY640231AEG-12A
	TC59S1608AFT-12A	No	16MB	S	
	TC59S1608AFT-12A	No	32MB	D	THMY644041AEG-12A



### 8.1.2 SDRAM DIMM Module (PC100)

Vender	IC Part No.	ECC	Size	Side	Module No.
Mitsubishi	M5M4V16S30DTP	Yes	32MB	D	M04B032M2EE72208-C3100
	M5M4V64S30ATP-8	Yes	64MB	S	M04B064M1HE72224-C3100
NEC	D4516821AG5-A10-7JF	Yes	32MB	D	M04B032M2EE72208-C3100
Fujitsu	81F16822D-102LFN	Yes	32MB	D	M04B032M2EE72208-C2100
	81F64842B-103FN	Yes	64MB	S	M04B064MIHE72224-C3100
LGS	GN72V661641CT7J	No	32MB	S	AAL8134
	GN72V661641CT7J	No	64MB	D	ABL8141
SEC	KM48S8030BT-GH	No	64MB	S	
	KM48S8030BT-GH	No	128MB	D	
Toshiba	TC59S6408FTL-80H	Yes	64MB	S	MO4B064M1HE72224-C2100

## 8.2 Add-on Cards

### 8.2.1 Display Adapter Products

#### 8.2.1.1 PCI Display Adapter Products

Vendor	VGA Chip	Product Description
ATI	ATI Rage II	ATI Rage II 3D
	ATI Mach64	ATI Mach64
	ATI Mach64	ATI Mach64 VT
Canopus	Tseng	Tseng ET-6000
	S3 Virge/DX	S3 Virge/DX
	S3 Trio64V+	Power Window
Cardex	S3 Virge	S3 Virge
	S3 Trio64V+	S3 Trio64V+ 765
Diamond	S3 964	Stealth 64Video
	S3 968	Stealth 4MB VRAM
	STG2000X B	EDGE 3D 2120
	NV MALTA	EDGE 3D 3240
ELSA	S3 Virge	Victory 3D-4
	S3 Virge/VX	Winner 2000AVI/3D
	S3 Virge/VX	Winner 3000L 3D
FIC	S3 Virge	1stGrafx-67MP
	S3 Trio64V+	1stGrafx-65MP
	S3 Trio62/DX	1stGrafx-65MP2
JAZZ	Alliance/3Dfx	Adrenaline Rush 3D 6MB EDO
Hi-tech	S3 TrioV2/DX	S3 TrioV2/DX
Leadtek	S3 964	WinFast S400
	S3 Virge	WinFast S600
Matrox	MGA-2164WP	Millennium II 8MB WRAM
	MGA-1064SG	Mystique 4MB SGRAM
Number #9	S3 964	GXE 64 Pro
	LSI 128	Image 128
STB	Riva 128	Velocity 128 3D 4MB SGRAM

### 8.2.1.2 AGP Display Adapter Products

Vendor	Model Name	Product Description
ATI	Rage Pro Turbo	ATI Rage Pro Turbo 2X AGP 4MB SGRAM
ATI	Rage Pro	ATI Rage Pro AGP-133 4MB SGRAM
ATI	Rage IIC	ATI Rage IIC AGP 4MB SGRAM
3D Labs	Permedia 2	3D Labs Permedia 2 AGP 8MB SGRAM
Trident	Image 9850	Trident 3D Image 9850 4MB SGRAM
Trident	Image 9750	Trident 3D Image 9750 4MB SGRAM
S3	Virge GX/2	S3 Virge GX/2 4MB SGRAM
Number #9	Number Nine 9730	Revolution 3D 4MB WRAM
SiS	SiS 6326	Daytona 3D 4MB SGRAM
Cardex	Intel i740	4MB SGRAM
Matrox	MGA-G100	2MB SGRAM
Asus	Riva 128	AGP-V3000 4MB SGRAM
Compro	Riva 128	Best 3D 4MB SGRAM
ELSA	3D Labs Permedia 2	Winner 2000/office

### 8.2.2 SCSI Adapter Products

Vendor	Model Name	Product Description	Bus I/F
Adaptec	AHA-1530P	Adaptec AHA-1530P ISA PnP SCSI	ISA PnP
	AHA-1542CS/CP	Adaptec AHA-1542C ISA PnP SCSI	ISA PnP
	AHA-2940AU	Adaptec AHA-2940AU PCI SCSI card	PCI
	AHA-2940UW	Adaptec AHA-2940UW PCI SCSI card	PCI
	AHA-3940	Adaptec AHA-3940 PCI to PCI Bridge card	PCI
	AHA-3985	Adaptec AHA-3985 PCI SCSI card	PCI
	AHA-1520/22B	Adaptec AHA-1520/22 ISA PnP SCSI	ISA PnP
	AHA-2920	Adaptec AHA-2920 PCI SCSI	PCI
	AHA-2940W	Adaptec AHA-2940W PCI SCSI	PCI
	AHA-1540CF	Adaptec AHA-1540CF ISA SCSI	ISA
BusLogic	BT-946	Buslogic BT-946 SCSI	PCI
	FlashPoint LT	Buslogic BA81C15 PCI SCSI	PCI
	BT-948CD	Buslogic BT-948CD PCI FWD SCSI	PCI
	BT-956CD	Buslogic BT-956CD PCI FWD SCSI	PCI
	KT-958	Buslogic KT-958 Narrow SCSI	PCI
Feature Domain	PnP 1630	Feature Domain 9441 PnP ISA SCSI	ISA PnP
	TMC-3260	Feature Domain 36C70 PCI SCSI	PCI
NCR	SCSI-810P	NCR-810P PCI SCSI Card	PCI
	825S	NCR-825S PCI SCSI Card	PCI
Initio	INI-9100HA/W	Initio INI-9100HA/W PCI SCSI	PCI
QLogic	QLA1040-PI	qlogic QLA1040-PI PCI SCSI	PCI
Symbios	SYM875-1SP	Symbios Logic 53C875J	PCI

### 8.2.3 Network Card Products

Vender	Model	Ver.	Chips No.	Specification	Bus	DRIVE
3COM	3C590	A	3COM40-0196	ETHERNET 10MB	PCI	5.1
	3C595	B	3COM40-0196	ETHERNET 10/100	PCI	5.1
	3C905	A1	3COM40-0336-004	ETHERNET 10/100	PCI	1.2
	509B	A	3COM40-0130-004	ETHERNET PnP 10MB	ISA	4.3
ACCTON	ACC40P	02	MPX2	ETHERNET PnP	ISA	1.04
	EN1207	01B	Digital 21140-AB	ETHERNET 10/100	PCI	3.03
CNET	CNET970	A	AM79C970AKC	ETHERNET 10MB	PCI	1.1
DLINK	DE220	C1	DL2517B	ETHERNET 10MB	ISA	1.34
	EZ2000P	A1	SM909F	ETHERNET 10MB	ISA	950701
EVRX	EV2064	002	NC16810	ETHERNET PnP 10MB	ISA	1.1
IBM	4H8098	A	38H6302	TOKEN RING 4/16 MB	PCI	1.01
	EN237	03	AM79C970AKC	ETHERNET 10MB	PCI	2.0
	EN374	001	INTEL S82557	ETHERNET 10/100	PCI	2.11
INTEL	E100B	001	INTEL S82557	ETHERNET 10/100	PCI	2.51
	PLCA8220B	002	INTEL S82595FX	ETHERNET PnP	ISA	1.51
	PRO10+	004	INTEL S82557	ETHERNET 10MB	PCI	3.03
OLICOM	OC-2183	2	TI TNETE110PCE-	ETHERNET 10MB	PCI	1.0
	OC-2185	04	TI TNETE110PCE-	ETHERNET 10MB	PCI	1.0
	OC-2325	2	TI TNETE100PCE-	ETHERNET 10/100	PCI	1.06
	OC-3136	5	OLICOM11900002	TOKEN RING 4/16MB	PCI	1.05
	OC-3118	4	OLICOMP11900	TOKEN RING PnP	ISA	1.02
	OC-4048	F	TI 380PCIPCW	TOKEN RING 4/16MB	PCI	1.21
THOMAS	TC4145	A	THOMAS316-	TOKEN RING PnP	ISA	2.01
SMC	EtherEZ	A	SMC83C795QF	ETHERNET PnP	ISA	0.14
	SMC9332	A	Digital21140	ETHERNET 10/100	PCI	1.1

## 8.2.4 FAX / Modem Products

Vendor	Model Name	Product Description	Bus I/F
Creative	WS-2814EM2	Creative Modem Blaster 28.8 External	External
	Phone Blaster	Creative Phone Blaster	Internal
Diamond	Telecomander	Diamond Telemander 3500XL	Internal
HAYES	ACCUR	HAYES ACCURA 288V.FC + FAX	Internal
Megahertz	PCMCIA	Internal 2.88 Modem	Internal
Sierra	288SQ	28.8 Internal PnP modem	Internal-PnP
CIS	WS-2814IVB	28.8 Internal PnP modem	Internal-PnP
US Robotics	Sportster Vi	28.8 Fax modem with DSVD	Internal
	Sportster Voice	28.8 Fax modem with Voice mail	Internal-PnP
SINOCAL	FMVS-288	FAX/MODEM/VOICE 28800bps PnP	Internal-PnP

## 8.3 Storage

### 8.3.1 SCSI Peripheral Products

ITEM	Vendor	Model Name	Product Description
SCSI Hard Disk	Quantum	FB-1080S	1GB SCSI Hard Disk Drive
		LPS-525S	525MB SCSI Hard Disk Drive
		TM2110S	2.1GB SCSI Hard Disk Drive
		Fireball SE	2.1GB Ultra SCSI HDD
		Atlas II	4.5GB Ultra SCSI HDD
	Fujitsu	M1606SAU	1.2GB SCSI Hard Disk Drive
	Seagate	ST-32550W	2GB Wide SCSI Hard Disk Drive
		ST-32171N	2.1GB Ultra SCSI Hard Disk Drive
		ST-15230N	4.29GB SCSI-II Hard Disk Drive
		ST-34555N	4.5GB Ultra SCSI HDD
		ST-32272W	2.2GB Ultra Wide SCSI HDD
	IBM	DCAS34330	4.5GB Ultra SCSI HDD
		DCAS34330	4.5GB Ultra Wide SCSI HDD
	WD	WDE2170	4.3GB Ultra Wide SCSI HDD
CD-ROM	Plextor	PX-32Tsi	32X Ultra SCSI CD-ROM
	Pioneer	DR-533	24X Narrow SCSI II CD-ROM
Iomega	Ditto	IO80Fi	Ditto Driver 800 Tape Insider
		IO80-PX3	Ditto Easy 800 External Tape Driver
	Zip	Z100i	Zip 100 SCSI Insider
		Z100S	Zip 100 SCSI
	Jaz	V1000SI	Jaz 1GB SCSI

Vendor	Model Name	Capacity
Fujitsu	M1623TAU	1.7GB
	MPB3032AT	3.2GB
	MPB3064AT	6.4GB
IBM		Ultra DMA 33
Maxtor	Diamond 84320D4	4.3GB
	Diamond 86480D6	6.4GB
	Diamond 88400D8	8.4GB
Quantum		PIO4 / DMA2
	Fireball TM 3840AT	PIO4 / DMA2
	Fireball SE 4.3AT	Ultra DMA 33
	Fireball ST 1.6AT	Ultra DMA 33
	Fireball ST 6.4AT	Ultra DMA 33
	Bigfoot TX 4300A	Ultra DMA 33
	Bigfoot TX 12000A	Ultra DMA 33
Seagate	ST-32120A	2.1GB
	ST-36450A	6.4GB
	Medialist pro ST-34342A	4.3GB
	Medialist pro ST-36451A	6.4GB
SamSung	Spinpoint WU33205A	3.2GB
		Ultra DMA 33

Vendor	Model Name
EPSON	SMD-1340-301
	SMD-1304-301
	D509V3
	D353T5
	D353T6
Panasonic	JU-475-3AG1
	JU-257
Sony	
TEAC	
	FD-235HG
	FD-235J
YEDATA	
	YD-702J
Samsung	SFD-321B/JB

### 8.3.4 ATAPI CD-ROM Device Product

Vendor	Model Name	Product Description
	CR-584B	ATAPI CD-ROM 12X
	CR-587-D	
Mitsumi	CRMC-FX162T4	
	CRMC-FX240S	
		ATAPI CD-ROM 32X Mode4
		ATAPI CD-ROM 8X
		ATAPI CD-ROM 12X
	CDR-S240	
NEC	CDR-1400B	
	CDR-1700A	
	CDR-1800A	
		ATAPI CD-ROM 32X Mode4
		ATAPI CD-ROM 16X Mode3
		ATAPI CD-ROM 32X Mode4
	SD-M1002	
Philips		ATAPI CD-ROM 32X UDMA2
		ATAPI CD-ROM 24X Mode4
	SR-8581-B	
Vuego		ATAPI CD-ROM 24X Mode4
		ATAPI CD-ROM 24X Mode3
	CD-532EA	
Pioneer		ATAPI CD-ROM 24X Mode4
		ATAPI CD-ROM 24X Mode4
	CDU-711	
Wearnes		ATAPI CD-ROM 32X Mode4
	632A	
LITE-ON		ATAPI CD-ROM 32X UDMA2
	CDR-8430	

### 8.3.5 ATAPI Disk Drive (IDE Interface)

Product Description	
	MF357G-111MA LSA-120
	LKM-F434-105 LS-120
	Z100 Zip IDE DRIVE 29ms 100MB

### 8.4.1 Parallel/Serial Port Products

	Model Name	Product Description	
HP	LaserJet III	HP LaserJet III	LPT
	LaserJet 5P	HP LaserJet 6P support IR Interface	LPT
D-Link	DE-EPP	D-Link EPP Pocket LAN	LPT
Up-select		External EPP SCSI BOX	LPT
Road Runner	Express T305	External Parallel Port Tape Backup	LPT
	Express FD144	External Parallel Port Floppy Drive	LPT
	Express CD-4X	External Parallel Port CD-ROM Driver	LPT
	Express XD	External Parallel Port Hard Driver	LPT
Actisys	ACT-IR210L	InfraRed Computer Link	COM
Kodak	DC210	InfraRed/Serial port Digital camera	COM
Zip	ZIP100	Iomega ZIP 100 Parallel port	LPT
LEO	LEO 300 ECP	LEO LPT scanner Scan-S6	Printer/ECP
	LEOScan	LEO ECP FS-1130A Scanner	Printer/ECP

### 8.4.2 Mouse Products

Vendor	Model Name	Product Description	Bus I/F
Microsoft	Microsoft Mouse	Microsoft IntelliMouse Serial - PS/2 Mouse	Serial/ 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
Qtronix	Lynx-25P	PS/2 Compatible Mouse	PS/2
	Lynx-25S	Serial Mouse	Serial
Actisys	ACT-IR220-L	InfraRed Computer Link	Serial
LEO	AD-M36	Serial Mouse 3-Button	Serial
NEC	M-S28	Serial Mouse	Serial
Genius	Serial	Serial Mouse 3-Button	Serial
KYE	Niche-N201	Serial Mouse (2 button)	Serial
	Mouse one 2B	Serial Mouse (2 button) & Pad	Serial
	Mouse one 3B	Serial Mouse (3 button) & Pad	Serial

### 8.4.3 USB Device Products

Type	Vendor	Parts No	Description
Mouse	Logitech	M-UA35	USB Mouse
	DEXIN	MA2R	USB Mouse
	Cypress		USB Mouse
HUB	Belkin	Express Bus F5U001	USB HUB
Camera		PC Camera U-CAM	USB Camera
Faxmodem	USRobotics	56K Voice Faxmodem	USB Faxmodem
Keyboard	Silitek		USB Keyboard
	Chicony	KU-8933	USB Keyboard
Joystick	Paramount		USB Joystick

### 8.4.4 Joystick & Game Pad

Vendor	Product Description
Microsoft	SideWinder 3D Pro joystick
	SideWinder force feedback pro joystick
Gravis	Game Pad Pro
Logitech	Wing Man Extreme digital joystick
	CyberMan 2 Game Pad
PHAZER PAD	Advanced Digital Gamepad for DOS & Windows 95

## 8.5 Multimedia

### 8.5.1 Sound Blaster Products

Vendor	Model Name	Product Description	Interface
Advance	ALS-100	Advance Logic PnP Sound	ISA PnP
	ALS-300	Advance Logic PCI Sound Card	PCI
AMD InterWave	Inter Wave	AMD AM78C201KC PnP Sound	ISA PnP
Creative	AWE32 CT-3990	Creative AWE32 ISA PnP Sound Blaster	ISA PnP
	AWE32 CT-3600	Creative AWE32 ISA PnP Sound Blaster	ISA PnP
	AWE64 CT-4380	Creative AWE64 ISA PnP Sound Blaster	ISA PnP
	AWE64 CT-4520	Creative AWE64 ISA PnP Sound Blaster	ISA PnP
	CT-4100	Creative ViBRA16CL PnP SoundBlaster	ISA PnP
	ES1371	Creative ES1371 PCI Sound Card	PCI
	PCI64	Creative ES1370 PCI Sound Card	PCI
Everex	Wave Machine	Crystal CS4332 PnP Sound card	ISA PnP
Formosa	SC-970	ESS 1948F PCI Sound Card	PCI
	SC-972	ENSONIQ ES1370 PCI Sound Card	PCI
	SC-4237	Crystal CX4237B PnP Sound Blaster	ISA PnP
	SC-202	ESS 1869F PnP Sound Blaster	ISA PnP
ESS	ESS-1868	ESS ISA PnP Sound Blaster	ISA PnP
S3	Sonic Vibes	S3 Sonic Vibes PCI Sound Card	PCI

### 8.5.2 MPEG Video Products

Vendor	Model Name	Product Description	Bus I/F
FIC	1stGrafx-CP3	S3 443 1/2 DRAM	PCI
Creative	Video Blaster SE-100	Creative SE-100 MPEG card	ISA
	Video Blaster CT-6000	Creative CT-6000 Video Capture board	ISA
Formosa	MPEG-MP020	Formosa Full Function MPEG card	ISA
	MPEG-MP021	Formosa Full screen MPEG	ISA
	TV-Tuner	Formosa TV-Tuner board	ISA
	MPEG-MP011A	Formosa Full Function MPEG Short card	ISA
RealMagic	MPEG	Real Magic Full Function MPEG card	ISA
Creative	MPEG-II	DVD Decoder Board Plug & Play	PCI



### 8.5.3 TV Tuner Display Products

Vendor	Model Name	Product Description	Bus I/F
AlTech	AlTech vision for Multimedia	Wave Watcher TV-II	ISA
Diamond	DTV 1100	Diamond Multimedia Upgrade	ISA
Matrox	Media TV	Media TV MGA Millennium	ISA

### 8.6 Power Supply Products

Vendor	Model Name	Product Description
HIPRO	HP-200NLXAG	200W ATX Remote Power Supply
	HP-200NLXAA	200W ATX Remote Power Supply
	HP-200ATXAG	200W ATX Remote Power Supply
Leadman	LP-6100ATX	250W ATX Remote Power Supply
Sea Sonic	SSG-200GTX	200W ATX Remote Power Supply
Tiger	TG-2006-B	200W ATX Remote Power Supply
	TG-2007-B	200W ATX Remote Power Supply
YHI	YS-6200DJ	200W ATX Remote Power Supply

### 8.7 DVD DEVICE Products

Vendor	Model Name	Product Description	Interface
Creative	MK5000	Creative PC-DVD Kit Include MATSUSHITA SR-8581-B DVD-ROM and LK-MAEP391A1 MPEG-2/Dolby Digital Decoder Board	PCI
Toshiba	Toshiba DVD	Toshiba PC-DVD Kit Include Toshiba SD-M1002 DVD-ROM and CINEMASTER MPEG-2/Dolby Digital DVD Board	PCI

Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
MS DOS	6.22	English	Microsoft	Pass
	6.22	German	Microsoft	Pass
Windows for Workgroups	3.11	English	Microsoft	Pass
IBM DOS	7.0	German	IBM	Pass
MS Windows 95	950C	English	Microsoft	Pass
	950B	Chinese	Microsoft	Pass
MS Windows 95 OSR2.1	950B	English	Microsoft	Pass
MS Windows 95 OSR2.5	950C	English	Microsoft	Pass
Windows NT Advance Server	3.51	English	Microsoft	Pass
Windows NT Workstation	3.51	English	Microsoft	Pass
Windows NT Workstation	4.0	English	Microsoft	Pass
Windows NT Server	4.0	English	Microsoft	Pass
Windows NT Server	4.0	Chinese	Microsoft	Pass
IBM OS/2 Warp	4.0	English	IBM	Pass
	3.0	German	IBM	Pass
Novell Network	3.12	English	Novell	Pass
Novell Network	4.10	English	Novell	Pass
Novell Network	4.11	English	Novell	Pass

## 9.2 Operating System for Japanese

Operating System	Version	Language	Company	Status
MS Windows 95	4.0a	Japanese	Microsoft	Pass
Windows NT Workstation	4.0	Japanese	Microsoft	Pass
Windows NT Server	4.0	Japanese	Microsoft	Pass
IBM OS/2 Warp	3.0	Japanese	IBM	Pass
Novell Network	4.11	Japanese	Novell	Pass
Lotus Windows 95 Super Office96		Japanese	Microsoft	Pass
E Ti Lan	6.3	Japanese	E Ti Lan	Pass
Microsoft Office Designed for Windwos95	7.0	Japanese	Microsoft	Pass



### 9.3 Software Applications

Item	Descriptions	Version	O.S.	Language	Status
Suites	Lotus SMART Suites 96	1.0	Windows 95	English	Pass
	MS Work for Windows	3.0	Windows	English	Pass
	MS Work for Windows95	4.0	Windows 95	English	Pass
	MS Office for Windows	4.3	Windows	English	Pass
	MS Office for Windows	4.3	Windows	Chinese	Pass
	MS Office 97 for Windows95	7.0	Windows 95	English	Pass
WordProcessor	AMI Pro for Windows	3.1	Windows	English	Pass
	AMI Pro for Windows	3.1	Windows	Chinese	Pass
	Word Pro for Windows96		Windows	Chinese	Pass
	MS Word for Windows	6.0	Windows	English	Pass
	MS Word for Windows	6.0	Windows	Chinese	Pass
	Word Prefect for Windows	6.0	Windows	English	Pass
	WordPerfect	6.0	Windows	English	Pass
	MS Office 97	7.0	Windows	English	Pass
Communication	cc: Mail/Add-on		Windows	English	Pass
	BITWare	3.30	Windows 95	English	Pass
	Delrina CommSuite	1.0	Windows 95	English	Pass
	WinFAX Pro	7.0	Windows 95	English	Pass
	WinFAX Pro for Win 95	4.0	Windows 95	English	Pass
	LapLink	7.0A	Windows 95	English	Pass
	Norton Anywhere	1.0	Windows	English	Pass
CAD	3D Disign Plus	2.0	Windows	English	Pass
	AutoCAD	R13	DOS	English	Pass
	AutoCAD	R13	Windows 95	English	Pass
	Animator Pro	1.3	DOS	English	Pass
	OrCAD	4.20	DOS	English	Pass
	3D Studio	4.0	DOS	English	Pass
	Micro Station	5.0	Windows	English	Pass
	PCAD	4.5	DOS	English	Pass
Database	Approach 96	1.0	Windows 95	English	Pass
	Lotus Notes	4.0	Windows 95	English	Pass
	Notes	3.0	Windows	Chinese	Pass
	Borland Visual Dbase	5.5	Windows 95	English	Pass
	Visual Foxpro	3.0A	Windows 95	English	Pass
	Visual dBASE Compiler	5.5	Windows 95	English	Pass
	DBASE IV	2.0	DOS	English	Pass
	FoxBase Microsoft	2.1	Windows	English	Pass
	FoxPro Microsoft	2.6	Windows	English	Pass
Graphics	Corel Draw	6.0	Windows 95	English	Pass
	Corel Draw	6.0	Windows 95	Chinese	Pass
	Fractul Design Painter	4.0	Windows 95	English	Pass
	Windows Draw	3.0	Windows	English	Pass
	MS PowerPoint	4.0	Windows	English	Pass
	Designer	4.1	Windows	English	Pass
	Pagemaker	6.5	Windows 95	English	Pass



	Visio HOME	4.0	Windows 95	English	Pass
	Photo Shop Pro	3.05	Windows 95	English	Pass
	MS-Publisher	3.0	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++	4.0	Windows 95	English	Pass
	Macro Assembler	6.11	DOS	English	Pass
	Borland C++	4.0	Windows	English	Pass
	Borland C++	5.0	Windows 95	English	Pass
	Turbo C++	3.1	Windows	English	Pass
	Borland Delphi	2.0	Windows 95	English	Pass
Diagnostic Program	Bapco95 for Win NT	4.0	Windows NT	English	Pass
	Bapco95 for Win 95	1.0	Windows 95	English	Pass
	PC Magazine Winstone 97	1.0	Windows 95	English	Pass
	Speed for Win95	3.0	Windows	English	Pass
	QAPlus	5.52	DOS	English	Pass
	QAPlus	5.51	DOS	English	Pass
	QAPlus	7.01	Windows 95	English	Pass
	Landmark(Speedcom)	2.0	DOS	English	Pass
	QAPlus	4.8	DOS	English	Pass
	Check IT Pro	3.0	Windows 95	English	Pass
	Intel LANDesk Client Manager	3.0	Win95/Win NT	English	Pass
	Intel LANDesk Client Manager	3.1 Beta2	Win95/Win NT	English	Pass
Tools	AfterDark	3.0	DOS	English	Pass
	AfterDark	3.0	Windows	English	Pass
	AfterDark for Win95	3.0	Windows 95	English	Pass
	Xing Soft MPEG Player	3.0	Windows 95	English	Pass
	Central Point Backup	1.0	Windows	English	Pass
	Desq View386	2.7	Windows	English	Pass
	Norton Backup	2.2	Windows	English	Pass
	Norton Commander	5.0	DOS	English	Pass
	Norton Desktop	3.0	Windows	English	Pass
	Norton Utility	2.0	Windows 95	English	Pass
	Norton Utility	8.0	Windows	English	Pass
	Microsoft Plus!	1.0	Windows 95	English	Pass
	Microsoft Plus!	1.0	Windows 95	Chinese	Pass
	QEMM386	8.00	Windows 95	English	Pass
	Sidekick	2.0	DOS	English	Pass
TimeManagement	MS Project	4.1	Windows 95	English	Pass
	Organizer	2.1T	Windows	Chinese	Pass
Scan	PC-cillin 97	3.0	Windows 95	English	Pass
	Norton Antivirus	2.0	Windows 95	English	Pass
Internet	Winsock	1.0	Windows 95	English	Pass
	Netscape	3.01	Windows 95	English	Pass
	Internet Explore	2.0/3.0	Windows 95	English	Pass
	Winspan	4.0	Windows	English	Pass



CD Title Game	3D Ultra Pin Ball	1.0	Windows 95	English	Pass
	Duke Nukem 3D	1.0	DOS	English	Pass
	Toy Story	1.0	Windows	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
	MYST	1.0	Windows 95	English	Pass
	Indy Car II Racing	1.0	DOS	English	Pass
	International Tennis Open	1.0	DOS	English	Pass
	Escape from Cyber City	1.0	DOS	English	Pass
	HAVOC	1.0	Window 95	English	Pass
	Flight Unlimited	1.0	DOS (CD)	Chinese	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
	Day of the Tentacle(CD)			Chinese	Pass
	Descent (CD)©)			English	Pass
	DIABLO BLIZZARD (CD)		Win95 / NT4.0	English	Pass
	WARCRAFT II TIDES OF DARKNESS		DOS/WIN95	English	Pass
	FULL THROTTLE (CD)©)			English	Pass
	FRONT LINES (Chinese CD)			Chinese	Pass
	DOOM II	1.0	Window 95	English	Pass
	Command & Conquer Red Alert			English	Pass
	Command & Conquer			English	Pass
	Broken & Word			English	Pass
	War Wind		WIN95	English	Pass
	Magic 2 Carpet			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
	Sky NET		Window 95	English	Pass
	THE NEED FOR SPEED SE			English	Pass
	Quake II		Window 95	English	Pass
	Test Drive 4		Window 95	English	Pass
	AGE of EMPIRES		Window 95	English	Pass
	M.A.X.			English	Pass
	Mech Warrior 2 Mercenaries			English	Pass
	Blood & Magic			English	Pass
	Wing Commander III		DOS/WIN95	English	Pass
	Wing Commander IV		Window 95	English	Pass
	Descent II			English	Pass



CD Title Multimedia	Cinderella		Windows	English	Pass
	LivingBook GrandMa&Me		Windows	English	Pass
	Top Gun		Windows	English	Pass
	Multimedia SuperPack		Windows	English	Pass
	Compton's Interactive Encyclopedia		Windows	English	Pass
	Adams Family		Windows	English	Pass
	Blank Rain		Windows	English	Pass
CD Title	Action	3.0	Windows	English	Pass
	Calendar Address Book		Windows	English	Pass
	The Ultrasound CD		Windows	English	Pass
	TripMaker		Windows	English	Pass