

FIC KA11 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

Product Version:	V 2.2
BIOS Version:	QM414
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9.2 Tested Software List

Suites
Word Processor
Communication
CAD
Database
Graphics
Presentation
Program
Diagnostic Program
Tools
Time Management
Scan
Internet
CD Title Game
CD Title Multimedia
CD Title



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 : KA11 PCB Rev 2.2
Product Name : VIA Apollo pro 133A Based Mainboard
System BIOS : Award BIOS Version QM414
PCI IDE : Internal PCI Mastre dual IDE
I/O : Winbond 83977EF-AW

3. Mainboard CPU Supports:

Intel Processors	Bus	Package	Status
Pentium II 233MHz	66	SECC	Pass
Pentium II 266MHz	66	SECC	Pass
Pentium II 300MHz	66	SECC	Pass
Celeron 266MHz	66	SEPP	Pass
Celeron 300MHz (without cache)	66	SEPP	Pass
Celeron 300MHz (with 128K cache)	66	SEPP	Pass
Celeron 333MHz	66	SEPP	Pass
Celeron 366MHz	66	SEPP	Pass
Celeron 400MHz	66	SEPP	Pass
Celeron 433MHz	66	SEPP	Pass
Pentium II 333MHz (Deschute)	66	SECC	Pass
Pentium II 350MHz (Deschute)	100	SECC/SECC2	Pass
Pentium II 400MHz (Deschute)	100	SECC/SECC2	Pass
Pentium II 450MHz (Deschute)	100	SECC/SECC2	Pass
Pentium III 450MHz (Katmai)	100	SECC2	Pass
Pentium III 500MHz (Katmai)	100	SECC2	pass
Pentium III 533MHz (Katmai)	133	SECC2	pass
Pentium III 550MHz (Katmai)	100	SECC2	pass
Pentium III 600MHz (Katmai)	133	SECC2	pass
Pentium III 667MHz (Coppermine)	133	SECC2	pass
Pentium III 700MHz (Coppermine)	100	SECC2	pass
Pentium III 733MHz (Coppermine)	133	SECC2	pass

Extra CPU Supports: with Converter Board

Intel Processors	Bus	Package	Status
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 566MHz	66	FC-PGA	Pass
Celeron 600MHz	66	FC-PGA	Pass
Celeron 667MHz	66	FC-PGA	Pass

4 System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	VIA Apollo pro 133A (694X_B+596B_C)
System Cache	128K/256K/512K Pipeline Burst SRAM Built-in CPU card
System Memory	Maximum : 2GB SDRAM/ VCM-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 2 ISA slots
Audio	Creative CT5880 PCI 4 channel Audio on board
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	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	Audio Alert	PASS
11	Ultra ATA-33/66 Enhanced IDE Interface	PASS
12	Virtual Channel Memory (VCM) SDRAM	PASS



13	CPU with DRAM Asynchronous interface	PASS
14	USB Function	PASS
15	Power Failure feature	PASS
16	Keyboard/PS2 mouse Power On	PASS
17	Year 2000 Compliance	PASS

4.2 Main Software Utilities Support:

Num.	M/B function	Version	Result
1	High-Point IDE Bus Master for Win 95/98	1.2	PASS
2	VIA IDE Bus Master for Win NT	2.1.41	PASS
3	VIA AGP VxD Utilities for Win 95/98	3.55	PASS
4	VIA chipset function' Registry for Win 95/98	1.8	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	7.13B	PASS
9	Award DMICFG Utilities for DOS	2.3Du	PASS

5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPK	Open	Pass
Power LED	PW_LED	Open	Pass
Suspended Switch	SP_SW	Open	Pass
IDE LED Connector	IDE_LED	Open	Pass
Reset Switch	RST	Open	Pass
Remote Power Switch	RPW_SW	Open	Pass
Message LED	MSG_LED	Open	Pass
CPU FAN Connector	CPU_FAN	Open	Pass
Chassis FAN1 Connector	CHS_FAN1	Open	Pass
Chassis FAN2 Connector	CHS_FAN2	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
CHASSIS	Chassis	Open	Pass
Keyboard Power-On Select	KB_WAKE	2-3	Pass
LAN Wake Up	WOL	Open	Pass
IR interface	IR	Open	Pass



6. Stability Test

6.1 Worst Case Test :

System Configuration	
CPU : Pentium III 550	Mouse : Microsoft PS/2 mouse
Cache Memory : 512 K	PowerSupply : Seasonic SS-200GTX 200W
On Board Memory : SDRAM 192MB	O.S. Environment : MS-DOS 6.22,Win 98,UNIX
HDD : Fujitsu F1623TAU 1.7GB	Chamber : KATO SE-47CRT
VGA : Compro SiS 6326	
FDD : Mitsumi D353F3 1.44MB	

1. Temperature Strife Margin Test : (1.5 days)

DC voltage: 3.3V and 5V fixed

Temperature range: -30 ~ 90C ° (Out side)

Frequency test on 100MHz frequency

Diagnostic Program: AMIDdiag 6.0 program will be ran at each different temperature ranges.

NO.	Test Engineer	Test Result	Remark
1.	Jason Chen	PASS	

2. Full Loading Test : (1 days)

Full loading test condition:

- All memory banks loaded.
- All available slots occupied.
- Both IDE channels are used.

DC voltage: 3.3V and 5V fixed.

Temperature range: Ambient Temperature (about 25°C)

Frequency tested are on 100MHz with a $\pm 10\%$ frequency variation.

Diagnostic Program: Win NT HCT Stress test and SCO UNIX burn in.

NO.	Test Engineer	Test Result	Remark
1.	Jason Chen	PASS	

3. Power Cycling test (Power On/Off Test): (1days)

DC voltage: change power voltage 3.0V/5.0 V $\pm 0.5\%$ (Vcc)

Power on and off test using both 110V/230V input .

Temperature range: -20°C to 45°C

Power On/Off ten times in each condition

Diagnostic Program: Win 95/98

NO.	Test Engineer	Test Result	Remark
1.	Jason Chen	PASS	

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

Software Name	Duration	Result
BAPCO for Windows NT	24 hr.	<i>Pass</i>
Test Configurations for NT	Intel Pentium III 600MHz Diamond Viper V550 16MB SDRAM AGP VGA 128MB SDRAM Memory Adaptec AHA 2940U2W Quantum Atlas III Ultra Wide SCSI 9.1GB SCSI HDD	
Novell Server version 4.11	48 hr.	<i>Pass</i>
Test Configurations for Novell	Intel Pentium III 533MHz Adaptec AHA 3940 Quantum Fireball SE 8.4GB SCSI HDD (SE8400S) 3COM 3C905B-TX PnP PCI 100Mbps Netware card (Connect to 4-6 workstation) SEC 64MB SDRAM Memory ELSA ERAZOR II 16MB SDRAM AGP VGA Test Program : Netware 4.11	
SCO UNIX Open Desktop 5.04	24 hr.	<i>Pass</i>
Test Configurations for SCO	Intel Pentium III 450MHz Adaptec AHA-2940UW SONY CDU-625 24X SCSI CD-ROM Seagate ST-34555N 4.5GB Ultra SCSI Disk 128MB Memory ATI Rage pro 8MB SGRAM AGP VGA Test Program : Create a batch file	
Winstone 99 Under WIN98	24 hr.	<i>Pass</i>
Test Configurations for Win 98	Intel Pentium III 600MHz IBM DJNA-370910 Ultra DMA66 9.1GB HDD ELSA ERAZOR III 32MB SGRAM AGP VGA Fujitsu 64MB SDRAM Memory	
Winstone 99 Under WIN98 SE	24hr.	<i>Pass</i>
Test Configurations for Win 98	Intel Pentium III 600MHz Quantum Fireball KA Ultra DMA66 13.6GB HDD Buffalo 128MB SDRAM Memory.(SEC) Diamond Viper V770 32MB SGRAM AGP VGA	
BAPCO for Windows NT 4.0	24hr.	<i>Pass</i>
Test Configurations for SYSmark 32 under Windows NT 4.0	Intel Pentium III 600MHz IBM DTTA-371010 Ultra DMA33 10.2GB IDE HDD Apacer 128MB SDRAM Memory. ELSA Winner II 32B SDRAM AGP VGA	



7. Base Operating Systems HCT Tests For PC99

Operating System	Company	HCT Name	Result
Windows 2000 RC2 build 2128	Microsoft	Microsoft WHQL HCT 9.3	<i>Pass</i>
Test Configurations	Intel Pentium III 600MHz 128MB Memory. ATI Rage 128GL 32MB SDRAM AGP VGA		
Windows 98 SE with ACPI	Microsoft	Microsoft WHQL HCT 9.3	<i>Pass</i>
Test Configurations	Intel Pentium III 600MHz 128MB Memory. ATI Rage 128GL 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 533MHz (Bus clock 66MHz) ☒ Intel
 Intel Pentium III 600MHz (Bus clock 133MHz)
 Intel Pentium III 700MHz (Bus clock 100MHz)
HDD IBM DJNA-370910 9.1GB IDE **PIO4** ☒ UDMA/66
Channel: ☒ PM **PS** **SM** **SS**
VGA Diamond Viper V770 32MB SDRAM **PCI_Slot:** ☒ AGP 4X
CD-ROM Pioneer DR-502S 24X 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 Winstone 99 V1.1/ BAPCO 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	D4516821AG5-A10-7JF	Yes	32MB	D	M04B032M2EE72208-C3100
	D4564841G5-A80-9JF	Yes	128MB	D	BUFFALO VSJ-ED128M2
Fujitsu	81F16822D-102LFN	Yes	32MB	D	M04B032M2EE72208-C2100
	81F64842B-103FN	Yes	64MB	S	M04B064MIHE72224-C3100
Mitsubishi	M5M4V64S30ATP-8	Yes	64MB	S	M04B064M1HE72224-C3100
Hitachi	HM5233B85TTB60	No	64MB	D	M18E64S48HIG6
Toshiba	TC59S6408FTL-80H	Yes	64MB	S	MO4B064M1HE72224-C2100
SIEMENS	HYB39S64160AT-8	No	32MB	S	HYS64V4200GU-8
	HYB39S64800AT-8	No	64MB	S	HYS64V8200GU-8
	HYB39S64800AT-8	Yes	128MB	D	HYS72V16220GU-8
	HYB39S64800BT-8	No	64MB	S	HYS64V8200GU-8
	HYB39S64800BT-8	Yes	128MB	D	HYS72V16220GU-8
	HYB39S64800CT-8	No	64MB	S	HYS64V8300GU-8-C
	HYB39S64800CT-8	Yes	128MB	D	HYS72V16220GU-8-C
	HYB39S256800T-8	Yes	512MB	D	HYS72V64220GU-8-A
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	AM2V168A1T8	No	32MB	D	7P.G1346.P00
	GM72V661641CT7J	No	32MB	S	7B.G2426.A01 (LGS)
	GM72V66841CT7J	No	64MB	D	7B.G3336.A4J (LGS)
	GM72V66841CT7J	No	128MB	D	7B.G3346.A4J (LGS)
	GM72V66441CT7J	Yes	256MB	D	7B.G4258.A01 (LGS)
	M5M4V64S20ATP	Yes	256MB	D	7B.G4258.701 (Mitsubishi)

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
	MT48LC8M8A2-75B	Yes	128MB	D	MT18LSDT1672AG-133B4
Mitsubishi	M2V64S30BTP	No	64MB	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

8.1.4 VC-SDRAM DIMM Module (VC100/133)



Vender	IC Part No.	Bus	Size	Side	Module No.
NEC	D4565821G5-A10-9JF	100	64MB	S	MC-45V8AB641F-A10
	D4565821G5-A75-9JF	133	64MB	S	MC-45V8AB641KF-A75
	D4565821G5-A75-9JF	133	128MB	D	MC-45V16AD641KF-A75
SIEMENS	HYB39V64160T-10	100	32MB	S	HYV64V4200GU-10
	HYB39V64160T-7.5	133	32MB	S	HYV64V4300GU-7.5

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 600MHz ☒ Intel

Memory SIEMENS 64MB (HYB39S64800AT-8) Total: 128 MB PC66 ☒ PC100

HDD Quantum Fireball CX 10.2GB 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: ☒ Onboard

Mouse Logitech MouseMan Mouse

COM ☒ PS/2

The following PCI/AGP VGA cards test WinBench 99 V1.1/ 3D WinBench 99 V1.2 /3Dmark99 MAX under Windows 98 with their respective VGA drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

8.2.1.1 2X AGP Display Adapter Products

Vendor	Model Name	Product Description
ATI	Rage pro	XPRT@Play 98
	Rage pro Turbo	XPRT 98
	Rage 128GL	Rage Fury
	Rage 128GL	XPRT 128
	Rage 128GL	All-In-Wonder 128
ASUS	Riva 128	AGP-V3000
	Riva 128ZX	AGP-V3000ZXTV
	S3 Savage 3D	AGP-V3100
	3Dfx Voodoo Banshee	AGP-V3200
	Riva TNT2	AGP-V3800
Matrox	MGA-G200	Millennium G200
	MGA-G400	Millennium G400 DH
	MGA-G400	Millennium G400 MAX
Diamond	3DLabs Permedia II	Fire GL1000 pro
	Riva 128	Viper V330
	Riva TNT	Viper V550
	Intel i740	Stealth II G460
	3Dfx Voodoo Banshee	Monster Fusion
ELSA	3Dlabs Permedia II	Winner 2000/office
	3Dlabs Permedia II	Gloria Synergy



	Riva TNT	ERAZOR II
	3Dfx Voodoo Banshee	Victory II
PowerColor	S3 Savage 3D	Savage 3D
Hercules	S3 Savage 3D	Terminator BEAST
Compro	SiS 6326	Daytona 3D SiS 6326
Gigabyte	S3 Savage 4	GA-650
Top Solution	3Dfx Voodoo Banshee	3Dfx Voodoo Banshee
Creative	Riva TNT	Graphics Blaster Riva TNT (CT6710)
	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra (CT6810)
Leadtek	Riva TNT	Winfast 3D S320
	Riva Vanta	WinFast 3D S320V
STB	Voodoo 3 2000	3dfx Voodoo 3 2000
	Voodoo 3 3000	3dfx Voodoo 3 3000
	Voodoo 3 3500	3dfx Voodoo 3 3500 TV

8.2.1.2 4X AGP Display Adapter Products

Vendor	Model Name	Product Description
Diamond	Riva TNT2	Viper V770
Creative	GeForce 256	3D Blaster GeForce
ELSA	Riva TNT2	Synergy II
	Riva TNT2	ERAZOR III
	S3 Savage 4	Winner II

8.2.1.3 PCI Display Adapter Products

Vendor	VGA Chip	Product Description
ATI	ATI Mach64	ATI Mach64
	ATI Mach64 VT	ATI Mach64 VT
	ATI Rage II	ATI Rage II 3D
Diamond	S3 968	Stealth 4MB VRAM
ELSA	S3 Virge/VX	Winner 3000L 3D
	S3 Virge	Victory 3D-4
STB	3dfx Voodoo3-2000	3dfx Voodoo3 2000 PCI
Number #9	LSI 128	Image 128
Matrox	MGA-1064SG	Mystique 4MB SGRAM
Cardex	S3 Virge/DX	S3 Virge/DX

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 500MHz	<input checked="" type="checkbox"/> Intel
Memory	SEC 64MB (KM48S8030BT-GH)	Total: <u>128 MB</u> PC66 <input checked="" type="checkbox"/> PC100
VGA	ELSA ERAZOR II AGP VGA	PCI_Slot: <u> </u> <input checked="" type="checkbox"/> AGP
HDD	IBM DCAS34330 4.5GB SCSI HDD	<input checked="" type="checkbox"/> Ultra SCSI Ultra Wide
	Quantum Atlas III 9.1GB SCSI HDD	Ultra SCSI <input checked="" type="checkbox"/> Ultra Wide
CD-ROM	Plextor PX-32Tsi 32X SCSI	<input checked="" type="checkbox"/> Ultra SCSI Ultra Wide
Sound	Creative CT5880 PCI	ISA_Slot: <u> </u> <input checked="" type="checkbox"/> On board
Mouse	Logitech MouseMan Mouse	COM <input checked="" type="checkbox"/> PS/2

The following ISA/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-1530P	Adaptec AHA-1530P ISA PnP SCSI	ISA PnP
	AHA-1542CS/CP	Adaptec AHA-1542C ISA PnP SCSI	ISA PnP
	AHA-2940UW	Adaptec AHA-2940UW PCI SCSI card	PCI
	AHA-2940U2W	Adaptec AHA-2940U2W PCI SCSI card	PCI
	AHA-3940	Adaptec AHA-3940 PCI to PCI Bridge card	PCI
	AHA-2920	Adaptec AHA-2920 PCI SCSI	PCI
	AHA-2940	Adaptec AHA-2940 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
	KT-958	Buslogic KT-958 Narrow SCSI	PCI
Initio	INI-9100HA/W	Initio INI-9100HA/W PCI SCSI	PCI
Tekram	DC-390	Tekram DC-390 PCI SCSI	PCI
	DC-390U2W	Tekram DC-390U2W PCI SCSI	PCI
Symbios	SYM875-1SP	Symbios Logic 53C875J	PCI

8.2.3 Network Card Products

Test Configuration:

OS Ver ☒ **Novell Netware Ver:** 5.0 .
☒ **Win 98 SE Ver:** 4.10.2222A .



CPU Intel Pentium II 450MHz ☒Intel
Memory Toshiba 64MB (TC59S6408BFT-80) **Total: 64 MB** **PC66** ☒**PC100**
VGA Intel 740 4MB SGRAM **PCI_Slot: ____** ☒**AGP**
HDD IBM DTTA-371010 10GB IDE **PIO4** ☒**UDMA/33**
CD-ROM TEAC CD532S 32X IDE **Channel: ☒PM PS SM SS**
Mouse Logitech MouseMan Mouse **Channel: PM PS ☒SM SS**
COM ☒**PS/2**

The following ISA/PCI LAN cards test Nwtest under Novell Netware and tset NetBench 5.01 under Windows NT Server with their respective LAN drivers installed .

Vender	Model	Specification	Bus	Result
3COM	3C509B	ETHERNET PnP 10Mbps	ISA PnP	Pass
	3C905B	ETHERNET 100Mbps (WOL)	PCI	Pass
	3C905C	ETHERNET 100Mbps (WOL)	PCI	Pass
	3C339	PnP Token-Ring	PCI	Pass
	3C19250	External Network for USB	USB	Pass
ACCTON	ACC40P	ETHERNET PnP 10 Mbps	ISA PnP	Pass
	EN1203	ETHERNET 10 Mbps	PCI	Pass
	EN1207-TX	ETHERNET 100 Mbps (WOL)	PCI	Pass
IBM	TR900	Token-Ring	PCI	Pass
	EN237	ETHERNET 10Mbps	PCI	Pass
	TR701	Token-Ring (WOL)	PCI	Pass
INTEL	PRO10+	ETHERNET 10Mbps	PCI	Pass
	PCLA 8220B	ETHERNET 10Mbps	ISA PnP	Pass
	E100B 82557	ETHERNET 100 Mbps	PCI	Pass
	Pro/100+ 82559	ETHERNET 100 Mbps (WOL)	PCI	Pass
OLICOM	OC-2185 (2183)	ETHERNET 10Mbps	PCI	Pass
	OC-3136	TOKEN RING 4/16Mbps	PCI	Pass
	OC-2325	ETHERNET 100 Mbps	PCI	Pass
Thomas	TC4048	TOKEN RING	PCI	Pass
D-Link	DFE-540TX	ETHERNET 100 Mbps (WOL)	PCI	Pass
SMC	DU-E10	External Network for USB	USB	Pass
	SMC9332	ETHERNET 100Mbps	PCI	Pass
	SMC9432TX	ETHERNET 100Mbps (WOL)	PCI	Pass
RealTek	RTL8139B	ETHERNET 100Mbps (WOL)	PCI	Pass
NetMate	CATC	USB to Lan 10BASE-T	USB	Pass

8.2.4 FAX / Modem Products

Test Configuration:

OS Ver ☒Win 98 **SE Ver: 4.10.2222A .**
CPU Intel Celeron 533MHz ☒Intel
Memory Toshiba 64MB (TC59S6408FTL-80H) **Total: 128 MB** **PC66** ☒**PC100**



VGA ELSA ERAZOR II 16MB SDRAM **PCI_Slot:**____ ☒AGP
HDD WD AC36400 6.4GB IDE **PIO4** ☒UDMA/33
CD-ROM ASUS CD-S500/A 50X IDE **Channel:** ☒PM PS SM SS
Sound Creative CT5880 PCI **Channel:** PM PS ☒SM SS
Mouse Microsoft IntelliMouse PS/2 Mouse **ISA_Slot:**____ ☒On board
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
ADI	CommuPack 56K SVD	External
Motorola	VoiceSURFR 56K	External
HSP	V1456VQH-P1 56Kbps PCI	Internal
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

8.3 Storage

8.3.1 SCSI Peripheral Products

Test Configuration:

OS Ver ☒ Win 98 SE Ver: 4.10.2222A .
☒ Win NT Ver: 4.0 .

CPU Intel Pentium III 533MHz

☒Intel

Memory Micron 128MB (MT48LC8M8A2-75B) **Total:** 128 MB **PC66** ☒PC133



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	Fireball SE	Ultra SCSI HDD 2.1GB
		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
	Seagate	ST-34555N	Ultra SCSI HDD 4.5GB
		ST-32272W	Ultra Wide SCSI HDD 2.2GB
		ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST-34502LW	Cheetah 9LP Ultra2 Wide 4.5GB
	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	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
	Pioneer	DR-533	Narrow SCSI II CD-ROM 24X

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 533MHz ☒Intel
Memory Mitsubishi 64MB (M2V64S30BTP) **Total:** 128 MB **PC66** ☒PC133
CD-ROM Sony DDU220E 5X IDE DVD-ROM **Channel:** **PM** **PS** ☒SM **SS**
VGA ELSA ERAZOR III 32MB SDRAM **PCI_Slot:**____. ☒AGP



Sound Creative CT5880 PCI
Mouse Logitech First Mouse+ Mouse

ISA_Slot: ☐ On board
COM ☒ PS/2

The following IDE devices test HCT Stress and WinStone 99 under Windows 98/NT with High-Point 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
Fujitsu	MPD3064AT	Ultra DMA 66	6.4GB
	MPD3084AT	Ultra DMA 66	8.4GB



	MPD3108AT	Ultra DMA 66	10.8GB
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	9.1GB
	Fireball KA	Ultra DMA 66	13.6GB
IBM	DJNA-370910	Ultra DMA 66	9.1GB
	DJNA-352030	Ultra DMA 66	20.3GB
	DPTA-372730	Ultra DMA 66	27.3GB
	DPTA-353750	Ultra DMA 66	37.5GB
Maxtor	90845U3	Ultra DMA 66	8.4GB
	91024U4	Ultra DMA 66	10.2GB
	91360U4	Ultra DMA 66	13.6GB
	92040U6	Ultra DMA 66	20GB
	92720U8	Ultra DMA 66	27GB

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 433MHz

☒ Intel

Memory Mitsubishi 64MB (M04B064M1HE72224-C3100) Total: 128 MB PC66 ☒ PC100

VGA Diamond Stealth II G460 8MB SDRAM PCI_Slot: ☒ AGP

HDD Quantum Bigfoot TX 4300A 4.3GB IDE PIO4 ☒ UDMA/33

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 High-Point IDE Bus Master drivers installed .

Vendor	Model Name	Product Description
Mitsumi	D359T3	1.44MB Floppy Disk Drive
Panasonic	JU-257	1.44 MB Floppy Disk Drive
TEAC	FD-235HG	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 550MHz ☒ Intel
Memory NEC 128MB (D4564841G5-A80-9JF) Total: 128 MB PC66 ☒ PC100
HDD Seagate ST-313032A 13GB IDE **PIO4** ☒ UDMA/66
Channel: ☒ PM PS SM SS
VGA ASUS AGP-V3200 16MB SDRAM **PCI Slot:** ☒ AGP
Sound Creative CT5880 PCI **ISA Slot:** ☒ On board
Mouse Logitech TrackmanMarble Mouse **COM** ☒ PS/2

The following IDE devices test HCT Stress and play VCD/DVD over night under indows 95/98 with High-Point IDE Bus Master drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

8.3.4.1 ATAPI CD-ROM:

Vendor	Model Name	Product Description
Panasonic	CR-587-D	ATAPI CD-ROM 32X Mode4
Mitsumi	CRMC-FX320S	ATAPI CD-ROM 32X Mode4
NEC	CDR-1800A	ATAPI CD-ROM 24X Mode4
	CDR-1900A	ATAPI CD-ROM 32X Mode4
Wearnes	CDS-32X	ATAPI CD-ROM 32X Mode4
Acer	650P	ATAPI CD-ROM 50X UDMA2
LITE-ON	LTN-301	ATAPI CD-ROM 32X UDMA2
	LTN-302	ATAPI CD-ROM 32X UDMA2
Hitachi	CDR-8430	ATAPI CD-ROM 32X Mode4
Philips	PCA323CD	ATAPI CD-ROM 32X UDMA2
Creative	CD2421E	ATAPI CD-ROM 24X Mode4
A-Open	CD-940E/AKU	ATAPI CD-ROM 40X UDMA2
ASUS	CD-S500/A	ATAPI CD-ROM 50X UDMA2
Vuego	624A-304	ATAPI CD-ROM 24X Mode4
TEAC	CD-532EA	ATAPI CD-ROM 32X Mode3
SONY	CDU-611	ATAPI CD-ROM 24X Mode4
	CDU-711	ATAPI CD-ROM 32X UDMA2
Pioneer	DR-502S	ATAPI CD-ROM 24X 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
Toshiba	SD-M1202	ATAPI DVD-ROM 4.8X
SONY	DDU-220E	ATAPI DVD-ROM 5.0X



Hitachi	GD-2500	ATAPI DVD-ROM 6X
Pioneer	DVD-102	ATAPI DVD-ROM 2.6X
	DVD-A03S	ATAPI DVD-ROM 6X

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 II 450MHz ☒ Intel

Memory Apacer 64MB (GM72V66841CT7J) 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 Channel: PM PS ☒ SM SS

Sound Creative CT5880 PCI ISA Slot: ☒ On board

Mouse Microsoft IntelliMouse Mouse COM ☒ PS/2

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

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 95 Ver: OSR2.5
☒ Win 98 SE Ver: 4.10.2222A

CPU Intel Pentium III 500MHz ☒ Intel

Memory Fujitsu 32MB (81F16822D-102LFN) Total: 64 MB PC66 ☒ PC100

HDD Quantum Fireball EL 5.1GB IDE PIO4 ☒ UDMA/33

Channel: ☒ PM PS SM SS



CD-ROM NEC CDR-1900A 32X IDE **Channel:** PM PS ☒SM SS
VGA Matrox Millennium G200 8MB 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 High-Point IDE Bus Master drivers installed.

Vendor	Model Name	Product Description	Bus I/F
HP	LaserJet III	HP LaserJet III	LPT
	LaserJet 6P	HP LaserJet 6P support IR Interface	LPT
Mustek	1200CP	Mustek 1200CP Scanner	LPT
Parallel	Universal Cable	DirectParallel universal cable	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	IR
	ACT-IR220L	InfraRed Computer Link	COM(IR)
IRwave	IRwave320S	InfraRed Computer Link	COM(IR)
	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 II 350MHz

☒Intel

Memory Apacer 32MB (AM2V168A1T8)

Total: 96 MB PC66 ☒PC100

HDD Seagate ST-39140A 9.1GB IDE

PIO4 ☒UDMA/33

Channel: ☒PM PS SM SS



CD-ROM Pioneer DR-502S 24X IDE **Channel:** PM PS ☒SM SS
VGA ATI Rage pro Turbo 8MB SGRAM **PCI_Slot:**____ ☒AGP
Sound Creative CT5880 PCI **ISA_Slot:**____ ☒On board

The following Mouse devices test Office 97 and Game under Windows 95/98 with Mouse drivers installed.

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
	Wheel Mouse	Logitech Wheel Mouse PS/2 Mouse	PS2
	MouseMan Wheel	Logitech MouseMan Wheel PS/2 Mouse	PS2
	TrackMan Marble	Logitech TrackMan Marble Serial - PS/2 Mouse	Serial/ PS2

8.4.3 USB Device Products

Test Configuration:

OS Ver ☒ Win 98 **SE Ver:** 4.10.2222A .
CPU Intel Pentium III 550MHz ☒Intel
Memory SIEMENS 128MB (HYB39S64800AT-8)**Total:** 128 MB PC66 ☒PC100
HDD Seagate ST-34342A 4.3GB IDE **PIO4** ☒UDMA/33
Channel: ☒PM PS SM SS
CD-ROM Hitachi CDR-8430 32X IDE **Channel:** PM PS ☒SM SS
VGA Leadtek Winfast 3D S350ZX 4MB SGRAM **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
	DEXIN	MA2R
	XNTC	98NS1-U2
	Twinhead	S-Mouse



	Macally	USB Mini Mouse
	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 elite
	Chicony	KU-8933
Printer	EPSON	Stylus Color 740
Ethernet	CATC	USB to Lan 10BASE-T
	SMC	DU-E10 External Network for USB
	3COM	3C19250 External Network for USB
Scanner	HP	ScanJet 4200C
Monitor	Viewsonic	Professional Series PS775
Joystick	Genius	Flight2000 F-22X
	Thrustmaster	TOP Gun

8.4.4 Joystick & Game Pad

Test Configuration:

OS Ver ☒ Win 98 **SE Ver:** 4.10.2222A
CPU Intel Pentium II 400MHz ☒ Intel
Memory SIEMENS 32MB (HYB39S64160AT-8) **Total:** 64 MB **PC66** ☒ **PC100**
HDD Maxtor 86480D6 6.4GB IDE **PIO4** ☒ **UDMA/33**
Channel: ☒ PM **PS** **SM** **SS**
CD-ROM VUEGO 624A-304 24X IDE **Channel:** **PM** **PS** ☒ **SM** **SS**
VGA Creative Riva TNT 16MB SDRAM **PCI_Slot:** ☒ **AGP**
Sound Creative CT5880 PCI **ISA_Slot:** ☒ **On board**
Mouse Microsoft IntelliMouse Mouse **COM** ☒ **PS/2**

The following Joystick & Game Pad devices test Game under Windows 98 with themselves default driver installed.

Vendor	Product Description
Microsoft	SideWinder 3D Pro joystick
	SideWinder force feedback pro joystick
Logitech	Wing Man Extreme digital joystick
	CyberMan 2 Game Pad
	WingMan Force joystick
	WingMan Formula Force joystick

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
ZECK	ZKS-250WX	250W	ATX
	ZKS-300WX	300W	ATX
Seventeam	ST-250GL	250W	ATX
	ST-301HR	300W	ATX
Enlight	ATX-723B	230W	ATX
	ATX-725B	250W	ATX
Sea Sonic	SS-200GTX	200W	ATX

8.6 DVD Device Products

Test Configuration:

OS Ver ☒ Win 95 Ver: SR 2.5
☒ Win 98 SE Ver: 4.10.2222A
CPU Intel Pentium III 450MHz ☒ Intel
Memory SEC 64MB (KN48S8030BT-GH) **Total:** 128 MB **PC66** ☒ **PC100**
HDD IBM DTTA-371010 10.0GB **PIO4** ☒ **UDMA/33**
VGA ATI Rage pro Turbo 8MB SGRAM **Channel:** ☒ **PM** **PS** **SM** **SS**
Sound Creative CT5880 PCI **PCI_Slot:** ☒ **AGP**
Mouse Microsoft IntelliMouse Mouse **ISA_Slot:** ☒ **On board**
COM ☒ **PS/2**

The following DVD Kit play DVD over night under Windows 95/98 with their respective DVD drivers installed and set to the follow condition 800 x 600 x 16bit colors, resolution refresh rate of 85Hz, small font.

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



9. Software Compatibility Test Suite

9.1 Base Operating System

9.1.1 Microsoft MS-DOS/Win 3.1:

Test Configuration:

CPU Intel Celeron 433MHz

Memory Apacer 64MB (GM72V66841CT7J)

HDD Quantum Fireball EX 6.4GB IDE

VGA ATI Rage pro Turbo 8MB SGDRAM

Sound Creative CT5880 PCI

CD-ROM TEAC CD-524EA 24X IDE

Mouse Logitech TrackMan Marble Mouse

☒ Intel

Total: 128 MB PC66 ☒ PC100

PIO4 ☒ UDMA/33

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 (FAT16)	PASS	
Install DOS	PASS	
Format FDD	PASS	
Format HDD	PASS	
Boot from FDD	PASS	
Boot from HDD	PASS	
HIMEM	PASS	
EMM386	PASS	
XCOPY	PASS	
Diskcopy	PASS	
Power.exe	PASS	
USB Keyboard working (Only)	PASS	
Install Windows 3.1	PASS	
Qaplus 5.52 for DOS	PASS	
Check It 5.01 for DOS	PASS	
Norton Utility 8.0 for DOS/Win 3.1 (Sysinfo)	PASS	
AMIDdiag 5.42a	PASS	
Speedcom	PASS	
Speedy for Win 3.1	PASS	



ICU 1.43 test	PASS	
NSTL Y2K tools test	PASS	
PM function (H/W & BIOS)	PASS	
LS-120/ZIP install & working	PASS	
GAME play (name: Mech Warrior 2 Mercenaries)	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 DOS	6.22	English	Microsoft	Pass
Windows for Workgroups	3.11	English	Microsoft	Pass

9.1.2 Microsoft Windows 95/98/98 SE:

Test Configuration:

CPU Intel Pentium III 600MHz ☒Intel
Memory SIEMENS 128MB (HYB39S64800BT-7.5) **Total: 256 MB** PC66 ☒PC133
HDD Fujitsu MPD3108AT 10.8GB IDE **PIO4** ☒UDMA/66
Channel: ☒PM PS SM SS
VGA Diamond Viper V770 32MB SDRAM **PCI_Slot:**____. ☒AGP
Sound Creative CT5880 PCI **ISA_Slot:**____. ☒On board
CD-ROM Pioneer DR-502S 24X 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	
LDCM Install & Test (LDCM Ver: <u>3.30</u>)	PASS	
Device Management check (No Caution)	PASS	
Sound/VGA/LAN IRQ change (PnP function)	PASS	
VGA Resolution/Color change	PASS	
Install Office 97	PASS	
Auto Shutdown (system power off)	PASS	
Defrag test	PASS	
LS-120/ZIP install & working	PASS	
Norton Utility 3.0	PASS	
CheckIt 98	PASS	
Qaplus 7.1 for Win 98	PASS	



Year 2000 test	PASS	
DVD Video CD play (name: BATMAN & ROBIN)	PASS	
Video CD play (name: TOP GUN)	PASS	
ACPI test (HCT 8.0)	PASS	
Drive Converter (FAT32)	PASS	
PM function by WIN98 (H/W)	PASS	
GAME play (name: TOMB RAIDER II)	PASS	
WinStone 98/99	PASS	
WinBench 98/99	PASS	
3D Winbench 98/99	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 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	French	Microsoft	Pass
	4.10.1998	Chinese(trad)	Microsoft	Pass
	4.10.1998	Chinese(simp)	Microsoft	Pass

9.1.3 Microsoft Windows 2000:

Test Configuration:

CPU Intel Pentium III 750MHz ☒Intel
Memory SIEMENS 128MB (HYB39S64800AT-8) **Total: 256 MB** ☒PC100 PC133
HDD Maxtor 92049U4 20.4GB IDE **PIO4** **UDMA/33** ☒UDMA/66
Channel: ☒PM PS SM SS
VGA Creative Geforce Pro **PCI_Slot:**____ ☒AGP
Sound Creative CT5880 PCI **ISA_Slot:**____ ☒On board
CD-ROM ASUS CD-S400/A 40X 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	
DVD Video CD play (name: BATMAN & ROBIN)	PASS	
PM function by Win2000 (H/W & Time out & Stand by)	PASS	
Sound/VGA/LAN IRQ change (PnP function)	PASS	
Install Office 2000	PASS	
GAME play (name: TOMB RAIDER II)	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 Professional	5.00.2195	English	Microsoft	Pass

9.1.4 *Microsoft Windows NT 4.0:*

Test Configuration:

CPU Intel Pentium III 550MHz ☒Intel
Memory SEC 32MB (KM48S8030BT-GH) **Total: 128 MB** PC66 ☒PC100
HDD Seagate ST-36530A 6.5GB IDE **PIO4** ☒UDMA/33
VGA Matrox Millennium G200 8MB SGRAM **Channel: ☒PM PS SM SS**
Sound Creative CT5880 PCI **PCI_Slot:____, ☒AGP**
CD-ROM Mitsumi CRMC-FX320S 32X IDE **ISA_Slot:____, ☒On board**
Mouse Logitech Mouse+ Mouse **Channel: PM PS ☒SM SS**
COM ☒PS/2

Test Item	Result	Remark
Install Win NT (NTFS/FAT)	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	
Year 2000 test	PASS	
WinStone 98/99	PASS	
WinBench 98/99	PASS	
BAPCO for Win NT 4.0 (SYSmark32)	PASS	
HCT 8.0 Stress test	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
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

9.1.5 *IBM OS/2 4.0:*

Test Configuration:

CPU Intel Pentium II 400MHz

☒Intel

Memory Toshiba 64MB (TC59S6408FTL-80H)

Total: 64 MB PC66 ☒PC100

HDD Fujitsu MPB3032AT 3.2GB IDE

PIO4 ☒UDMA/33

Channel: ☒PM PS SM SS

VGA ATI Rage pro Turbo 8MB SGRAM

PCI_Slot: _____ ☒AGP

Sound Creative CT5880 PCI

ISA_Slot: 1_ ☒On board

CD-ROM Philips PCA323CD 32X IDE

Channel: PM PS ☒SM SS

Mouse Logitech Mouse+ Mouse

COM ☒PS/2

Test Item	Result	Remark
Install OS/2 (HPFS)	PASS	
Format FDD	PASS	
XCOPY	PASS	
Diskcopy	PASS	
VGA Resolution/Color change	PASS	
DOS Windows	PASS	
OS/2 Windows	PASS	
Stress test	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
	3.0	English	IBM	Pass



9.1.6 UNIX:

Test Configuration:

CPU	Intel Pentium III 500MHz	<input checked="" type="checkbox"/> Intel
Memory	Toshiba 64MB (TC59S6408FTL-80H)	Total: 64 MB PC66 <input checked="" type="checkbox"/> PC100
HDD	Quantum Fireball CR 8.4GB IDE	PIO4 <input checked="" type="checkbox"/> UDMA/66
		Channel: <input checked="" type="checkbox"/>PM PS SM SS
VGA	ATI Rage pro Turbo 8MB SGRAM	PCI_Slot: _____ <input checked="" type="checkbox"/> AGP
Sound	Creative CT5880 PCI	ISA_Slot: 1_ <input checked="" type="checkbox"/> On board
CD-ROM	NEC CDR-1800A 24X IDE	Channel: PM PS <input checked="" type="checkbox"/>SM SS
Mouse	Logitech Mouse+ Mouse	COM <input checked="" type="checkbox"/> PS/2

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
SCO UNIX	5.04	English	SCO	Pass
Open Linux	2.2	English		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	Lotus Notes	4.0	Windows 95	English	Pass
	Visual Foxpro	3.0A	Windows 95	English	Pass



	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++	4.0	Windows 95	English	Pass
	Borland Delphi	4.0	Windows 95	English	Pass
Diagnostic Program	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	1.1	Windows 95/98	English	Pass
	QAPLus	5.52	DOS	English	Pass
	QAPLus	7.01	Windows 95/98	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	3.07	Windows 95	English	Pass
TimeManagement	MS Project	4.1	Windows 95	English	Pass
Scan	PC-cillin 98	4.04	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
TUROC SEED OF EV 2		Window 95/98	English	Pass
Lands of Lore III		Window 95/98	English	Pass
Popvlovs		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