

FIC SD11 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

Product Version:	V 1.8
BIOS Version:	NC611
Report Date:	10/05/2000
Revision:	1.05

Revision History

Document Release	Date	Change Item	ECN
Revision 1.01	1/04/2000	Add support AMD Athlon 800MHz CPU	
Revision 1.02	1/24/2000	Add support AGP list: ATI XPERT 2000 AGP VGA Leadtek WinFast GeForce256 AGP VGA ELSA ERAZOR X AGP VGA Creative 3D Blaster GeForce Pro AGP VGA Hercules 3D Prophet DDR-DVI AGP VGA Maxtor Millennium G400 SH AGP VGA Creative 3D Blaster TNT2 M64 AGP VGA ELSA ERAZOR III Pro AGP VGA Leadtek WinFast VR300 AGP VGA	
Revision 1.03	2/23/2000	Add support AMD Athlon 850MHz CPU Add support AGP list: ELSA ERAZOR III LT AGP VGA	
Revision 1.04	7/05/2000	Update BIOS version to NC611 Add support AMD Athlon(ThunderBird) 700/750/ 800MHz CPU Fix Maxtor UDMA/66 HDD compatibility issue.	M99701- E-116
Revision 1.05	10/05/2000	Add support Windows ME (Millennium Edition)	

TABLE OF CONTENTS

1. Introduction
2. Mainboard Features
3. Mainboard CPU Support
4. System Specification for Hardware and Software Utilities
 - 4.1 Main Functionality Test
 - 4.2 Main Software Utilities Test
5. Jumper Function Verification
6. Stability Test
 - 6.1 Worst Case Test
 - 6.2 Field (Stress) Test : Dynamic Burn-in Tests
7. Base Operating System HCT Tests
8. Hardware Compatibility Test Suite
 - 8.1 **Memory**
SDRAM DIMM Module(PC100)
 - 8.2 **Add-on Cards**
 - 8.2.1 Display Adapter Products
 - 8.2.1.1 AGP Display Adapter Products
 - 8.2.1.2 PCI Display Adapter Products
 - 8.2.2 SCSI Adapter Products
 - 8.2.3 Sound Adapter Products
 - 8.2.4 Network Card Products
 - 8.2.5 FAX / Modem Products
 - 8.3 **Storage**
 - 8.3.1 SCSI Peripheral Products
 - 8.3.2 IDE Fixed Disk Drive Products
 - 8.3.2.1 IDE Ultra DMA/33
 - 8.3.2.2 IDE Ultra DMA/66
 - 8.3.3 Floppy Disk Drive Products
 - 8.3.4 ATAPI CD-ROM / DVD-ROM Device Products
 - 8.3.4.1 ATAPI CD-ROM
 - 8.3.4.2 ATAPI DVD-ROM
 - 8.3.5 ATAPI Disk Drive (IDE Interface)
 - 8.4 **Peripherals**
 - 8.4.1 Parallel/Serial Port Products(Including IR)
 - 8.4.2 Mouse Products
 - 8.4.3 USB Device Products
 - 8.4.4 Joystick & Game Pad
 - 8.5 **Power Supply Products**
9. Software Compatibility Test Suite
 - 9.1 **Base Operating Systems**
 - 9.1.1 Microsoft MS-DOS/Win 3.1
 - 9.1.2 Microsoft Windows 95/98
 - 9.1.3 Microsoft Windows 2000
 - 9.1.4 Microsoft Windows NT 4.0 + Service Pack
 - 9.1.5 IBM OS/2 4.0
 - 9.1.6 Microsoft Windows ME



9.2 Tested Software List

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



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 : SD11 PCB Rev 1.8
Product Name : AMD 751 + VIA 686A Based Mainboard
System BIOS : AMI BIOS Version NC611
PCI IDE : Internal PCI Mastre dual IDE
I/O : VIA VT686A

3. Mainboard CPU Supports:

AMD Processors	Bus	Package	Status
AMD Athlon 500MHz	100	SECC	Pass
AMD Athlon 550MHz	100	SECC	Pass
AMD Athlon 600MHz	100	SECC	Pass
AMD Athlon 650MHz	100	SECC	Pass
AMD Athlon 700MHz	100	SECC	Pass
AMD Athlon 700MHz (ThunderBird)	100	SECC	Pass
AMD Athlon 750MHz	100	SECC	Pass
AMD Athlon 750MHz (ThunderBird)	100	SECC	Pass
AMD Athlon 800MHz	100	SECC	Pass
AMD Athlon 800MHz (ThunderBird)	100	SECC	Pass
AMD Athlon 850MHz	100	SECC	Pass
AMD Athlon 900MHz	100	SECC	Pass
AMD Athlon 950MHz	100	SECC	Pass

4 System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	AMD 751_C5 + VIA 686A_K
System Cache	512K Pipeline Burst SRAM Built-in CPU card
System Memory	Maximum : 768MB SDRAM 168 pins single RAS and Double RAS DIMM RAM Module
PCI Bus Clock	Synchronous mode (depended on CPU Clock divide by 2)
System Slots	1 AGP and 5 PCI and 1 ISA slots
IO Corelogic	VIA VT686A Support Normal,EPP,ECP mode and IR interface
PCI IDE	VIA VT82C686A internal Bus Master PCI IDE.

4.1 Main Functionality Support:

Num.	M/B function	Result
1	ACPI Ready (under Win 98/Win NT 2000)	PASS
2	APM 1.2	PASS
3	RTC Alarm Function	PASS
4	Ultra ATA-33/66 Enhanced IDE Interface	PASS
5	USB Function	PASS
6	Power Failure feature	PASS
7	Year 2000 Compliance	PASS

4.2 Main Software Utilities Support:

Num.	M/B function	Version	Result
1	VIA IDE Bus Master for Win 98/98 SE	2.1.47	PASS
2	VIA IDE Bus Master for Win NT	2.1.41	PASS
3	AMD Mini port driver for Win 95/98	4.5	PASS
4	VIA AGP VxD Utilities for Win 95/98	4.03	PASS
5	VIA chipset function' Registry for Win 95/98	1.09	PASS
6	VIA IRQ Routing Table	1.30	PASS
7	AMI BIOS Flash ROM Utilities	8.21	PASS
8	AMI DMICFG Utilities for DOS	2.1	PASS

5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Power LED	PWR LED	Open	Pass
IDE LED Connector	HD LED	Open	Pass
Reset Switch	RST BTN	Open	Pass
Power Switch	PWR BTN	Open	Pass
Sleep Switch	SLP BTN	Open	Pass
Sleep LED	SLP LED	Open	Pass
Speaker Connector	SPKR	Open	Pass
CPU FAN Connector	CPU FAN	Open	Pass
Chassis FAN Connector	SYS FAN	Open	Pass
Clear CMOS	CMOS JPR	1-2	Pass

6. Stability Test

6.1 Worst Case Test :

System Configuration			
CPU	: AMD Athlon 600MHz	Mouse	: Microsoft PS/2 mouse
Cache Memory	: 512 K	O.S. Environment:	DOS, WinNT, SCO UNIX
On Board Memory	: SDRAM 192MB	Chamber	: KATO SE-47CRT
HDD	: Quantum Fireball SE 4.3GB		
FDD	: Mitsumi D353F3 1.44MB		

1. Temperature Strife Margin Test : (1.5 days)

DC voltage: 3.3V and 5V fixed

Temperature range: -20 ~ 60C ° (Out side)

Frequency test on 100MHz frequency

Diagnostic Program: AMIDdiag 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:

a. All memory banks loaded.

b. All available slots occupied.

c. 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 input .

Temperature range: -20°C to 60°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	AMD Athlon 550MHz Diamond Viper V770 32MB SDRAM AGP VGA SEC 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	AMD Athlon 550MHz 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	AMD Athlon 550MHz Adaptec AHA-2940UW SONY CDU-625 24X SCSI CD-ROM Seagate ST-34555N 4.5GB Ultra SCSI Disk NEC 128MB Memory ATI Rage pro 8MB SGRAM AGP VGA Test Program : Create a batch file	
Winstone 99 Under WIN98	24hr.	<i>Pass</i>
Test Configurations for Win 98	AMD Athlon 550MHz Quantum Fireball KA ATA-66 9.1GB HDD Apacer 128MB SDRAM Memory. ELSA Victory II 16MB SGRAM AGP VGA	
BAPCO for Windows NT 4.0	24hr.	<i>Pass</i>
Test Configurations for SYSmark 32 under Windows NT 4.0	AMD Athlon 550MHz IBM DJNA-370910 ATA-66 9.1GB IDE HDD SIEMENS 128MB SDRAM Memory. ATI Rage Fury 32MB 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 9.1	<i>Pass</i>
Test Configurations	AMD Athlon 550MHz 64MB Memory. ATI Rage 128GL 32MB SDRAM AGP VGA		
Windows 98 SE with ACPI	Microsoft	Microsoft WHQL HCT 9.1	<i>Pass</i>
Test Configurations	AMD Athlon 550MHz 64MB 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 + SP5

CPU AMD Athlon 700MHz

☐ AMD

HDD WD AC310200 10.2GB IDE

☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA Diamond Viper V770 32MB SDRAM

☐ PCI_Slot: ☐ AGP

CD-ROM Pioneer DR-502S 24X IDE

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Sound Creative PCI128

☐ ISA_Slot: ☐ PCI_Slot: 2 .

Mouse Microsoft IntelliMouse PS/2 Mouse

☐ COM ☐ PS/2

The following SDRAM module test Winstone 99 / BAPCO under Windows 98/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.

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
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)



8.2 Add-on Cards

8.2.1 Display Adapter Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.222A .
CPU AMD Athlon 800MHz ☐ AMD
Memory SIEMENS 128MB (HYB39S64800BT-8) Total: 256 MB ☐ PC66 ☐ PC100
HDD Quantum Fireball KA 13GB IDE ☐ PIO4 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
CD-ROM ASUS CD-S400 40X IDE Channel: ☐ PM ☐ PS ☐ SM ☐ SS
Sound Creative Sound Blaster PCI64 ☐ ISA_Slot: ☐ PCI_Slot: 2 .
Mouse Logitech MouseMan Mouse ☐ COM ☐ PS/2

The following AGP VGA cards test 3D WinBench 99/(Final Reality 1.01/3D Mark99 MAX under Windows 98 SE with their respective VGA drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

8.2.1.1 AGP Display Adapter Products

Vendor	Model Name	Product Description
ATI	Rage pro	XPERT@Play 98
	Rage pro Turbo	XPERT 98
	Rage 128GL	Rage Fury
	Rage 128GL	XPERT 128
	Rage 128GL	All-In-Wonder 128
	Rage 128VR	XPERT 2000
ASUS	Riva 128	AGP-V3000
	Riva 128ZX	AGP-V3000ZXTV
	3Dfx Voodoo Banshee	AGP-V3200
	S3 Savage 4	AGP-V3500
	Riva TNT2	AGP-V3800
Matrox	MGA-G200	Millennium G200
	MGA-G400	Millennium G400 DH
	MGA-G400	Millennium G400 MAX
	MGA-G400	Millennium G400 SH
Creative	Riva TNT	Graphics Blaster Riva TNT (CT6710)
	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra (CT6810)
	Riva TNT2 M64	3D Blaster TNT2 M64
	Riva GeForce256 Pro	3D Blaster GeForce Pro
ELSA	3Dlabs Permedia II	Winner 2000/office
	3Dlabs Permedia II	Gloria Synergy
	Riva TNT	ERAZOR II
	3Dfx Voodoo Banshee	Victory II
	S3 Savage 4	Winner II
	Riva TNT2	Synergy II
	Riva TNT2	ERAZOR III
	Riva TNT2 M64	ERAZOR III LT
	Riva GeForce256	ERAZOR X

	Riva TNT2 Pro	ERAZOR III Pro
PowerColor	S3 Savage 3D	Savage 3D
Hercules	S3 Savage 3D	Terminator BEAST
	Riva GeForce256	3D Prophet DDR-DVI
Creative	Riva TNT	Graphics Blaster Riva TNT (CT6710)
	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra (CT6810)
	Riva TNT2 M64	3D Blaster TNT2 M64
	Riva GeForce256 Pro	3D Blaster GeForce Pro
Leadtek	Riva TNT	Winfast 3D S320
	Riva 128ZX	Winfast 3D S3500ZX
	Riva Vanta	WinFast 3D S320V
	Riva TNT2 M64	WinFast 3D S325
	Riva GeForce256	WinFast GeForce256
	SiS 300	WinFast VR300
STB	Voodoo 3 2000	3dfx Voodoo 3 2000
	Voodoo 3 3000	3dfx Voodoo 3 3000
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
	Riva TNT2	Viper V770
	Riva TNT2 Ultra	Viper V770 Ultra

8.2.1.2 PCI Display Adapter Products

Vendor	VGA Chip	Product Description
Matrox	MGA-1064SG	Mystique 4MB SGRAM
Number #9	LSI 128	Image 128
ATI	ATI Rage II	ATI Rage II 3D
ATI	ATI Mach64	ATI Mach64 VT
STB	Riva 128	Velocity 128 3D 4MB SGRAM
JAZZ	Voodoo	Adrenaline Rush 3D 6MB EDO
Creative	Voodoo 2	3D Blaster Voodoo2 8MB EDO
3dfx	Voodoo 3-2000	3dfx Voodoo 3-2000 PCI

8.2.2 SCSI Adapter Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A .
☐ Win NT Ver: 4.0 + SP5
 CPU AMD Athlon 600MHz ☐ AMD
 Memory SEC 64MB (KM48S8030BT-GH) Total: 128 MB ☐ PC66 ☐ PC100
 VGA ELSA ERAZOR II AGP VGA ☐ PCI Slot: ☐ AGP
 HDD IBM DCAS34330 4.5GB SCSI HDD ☐ Ultra SCSI ☐ Ultra Wide
 Quantum Atlas 9.1GB SCSI HDD ☐ Ultra SCSI ☐ Ultra Wide
 CD-ROM Plextor PX-32Tsi 32X SCSI ☐ Ultra SCSI ☐ Ultra Wide
 Sound Creative PCI64 ☐ ISA Slot: ☐ PCI_solt 3 .
 Mouse Logitech MouseMan Mouse ☐ COM ☐ 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-2940AU	Adaptec AHA-2940AU PCI SCSI card	PCI
	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-1520/22B	Adaptec AHA-1520/22 ISA PnP SCSI	ISA PnP
	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 Sound Adapter Products

Test Configuration:

OS Ver ☐ Win 95 Ver: OSR2.5 .
☐ Win 98 SE Ver: 4.10.2222A .
 CPU AMD Athlon 650MHz ☐ AMD
 Memory Apacer 64MB (GM72V66841CT7J) Total: 128 MB ☐ PC66 ☐ PC100
 VGA Matrox Millennium G400 ☐ PCI_Slot: ☐ AGP
 HDD Quantum Fireball EX 12.7GB IDE ☐ PIO4 ☐ UDMA/33
 Channel: ☐ PM ☐ PS ☐ SM ☐ SS
 CD-ROM Toshiba XM-6202B 32X IDE 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 95/98 with their respective sound drivers installed .

Vendor	Model Name	Product Description	Interface
Creative	CT-4100	Sound Blaster ViBRA 16CL	ISA PnP
	CT-4380	Sound Blaster AWE64	ISA PnP
	CT-4520	Sound Blaster AWE64	ISA PnP
	ES1370	Sound Blaster PCI 64	PCI
	CT-4600	Sound Blaster AWE64D	PCI
	CT-4620	Sound Blaster Live!	PCI
	CT-4700	Sound Blaster PCI 128	PCI
Formosa	SC-4237	Crystal CX4237B PnP Sound Blaster	ISA PnP
	SC-202	ESS 1869F PnP Sound Blaster	ISA PnP
	SC-970	ESS 1948F PCI Sound Card	PCI
	SC-972	ENSONIQ ES1370 PCI Sound Card	PCI
Top Solution	YAMAHA 744	Ultra Live 5.1	PCI
FIC	ESS Canyon 3D	Hi-Five PCI Sound Card	PCI
Diamond	MX300	Monster Sound	PCI

8.2.4 Network Card Products

Test Configuration:

OS Ver ☐ Novell Netware Ver: 4.X .

☐ Win NT Server Ver: 4.0 .

CPU AMD Athlon 550MHz

☐ AMD

Memory Toshiba 64MB (TC59S6408BFT-80) Total: 64 MB ☐ PC66 ☐ PC100

VGA 3Dlabs Permedia 16MB SGRAM

☐ PCI_Slot: ☐ AGP

HDD IBM DTTA-351010 10.1GB IDE

☐ PIO4 ☐ UDMA/33

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

CD-ROM TEAC CD-523S 32X IDE

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Mouse Logitech MouseMan Mouse

☐ 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
3COM	3C905B	ETHERNET 10/100 Mbps (WOL)	PCI
	3C905C	ETHERNET 10/100 Mbps (WOL)	PCI
	3C509B	ETHERNET PnP 10Mbps	ISA
	3C339	PnP Token-Ring	PCI
ACCTON	EN1203	ETHERNET 10 Mbps	PCI
	ACC40P	ETHERNET PnP 10 Mbps	ISA
	EN1207	ETHERNET 100 Mbps (WOL)	PCI
IBM	TR900	TOKEN RING (WOL)	PCI
	EN237	ETHERNET 10Mbps	PCI
	TR701	TOKEN RING (WOL)	PCI
INTEL	PRO10+	ETHERNET 10Mbps	PCI
	E100B 82557	ETHERNET 100 Mbps	PCI
	PCLA 8220B	ETHERNET PnP 10Mbps	ISA
	Pro/100+ 82559	ETHERNET 10/100 Mbps (WOL)	PCI
OLICOM	OC-2183(2185)	ETHERNET 10Mbps	PCI
	OC-2325	ETHERNET 100Mbps	PCI
	OC-3136	TOKEN RING 4/16Mbps	PCI
SMC	SMC9432TX	ETHERNET 100 Mbps(WOL)	PCI
	SMC1211	ETHERNET 100 Mbps	PCI
RealTek	RTL8139B	ETHERNET 100Mbps	PCI
THOMAS	TC4048	TOKEN RING 4/16Mbps	PCI
D-Link	DFE-540TX	ETHERNET 100 Mbps (WOL)	PCI

8.2.5 FAX / Modem Products

Test Configuration:

OS Ver ☐ Win 98 **SE Ver:** 4.10.2222A .
CPU AMD Athlon 600MHz ☐ AMD
Memory NEC 128MB (D4564841G5-A80-9JFH) **Total:** 128 MB ☐ PC66 ☐ PC100
VGA ELSA ERAZOR III 32MB SDRAM ☐ PCI_Slot:____. ☐ AGP
HDD Fujitsu MPD3108AT 10.8GB IDE ☐ PIO4 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
CD-ROM SONY CDU-711 32X IDE **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
Sound Diamond Monster Sound MX300 ☐ ISA_Slot:____. ☐ PCI_solt 2.
Mouse Microsoft IntelliMouse PS/2 Mouse ☐ COM ☐ PS/2

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

Vendor	Product Description	Bus I/F
ADI	CommuPack 56K SVD	External
USR	Sportster 56K Faxmodem	External
Motorola	VoiceSURFR 56K	External
GVC	56K/K56 FLEX ASVD	External
RockModem	56K (FIC)	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 + SP5
 CPU AMD Athlon 600MHz ☐ AMD
 Memory SIEMENS 64MB (HYB39S64800AT-8) Total: 128 MB ☐ PC66 ☐ PC100
 VGA Creative Riva TNT2 Ultra 32 SGRAM ☐ 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		Fireball SE	Ultra SCSI HDD 8.4GB
		Viking II	Ultra2 Wide SCSI HDD 4.5GB
		Atlas II	Ultra SCSI HDD 4.5GB
		Atlas	Ultra Wide SCSI HDD 9.1GB
	Seagate	ST-34555N	Ultra SCSI HDD 4.5GB
		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 + SP5
 CPU AMD Athlon 700MHz ☐ AMD
 Memory SIEMENS 64MB (HYB39S64800CT-8) Total: 128 MB ☐ PC66 ☐ PC100
 CD-ROM Toshiba SD-M1202 4.8X DVD-ROM Channel: ☐ PM ☐ PS ☐ SM ☐ SS
 VGA STB Voodoo 3 3000 16MB SDRAM ☐ PCI_Slot: ☐ AGP
 Sound FIC Hi-Five PCI Sound Card ☐ ISA_Slot: ☐ PCI_solt 4 .
 Mouse Logitech First Mouse+ Mouse ☐ 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
	Bigboot TX	Ultra DMA 33	4.0GB
	Bigboot TX	Ultra DMA 33	12.0GB
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
Maxtor	91021U2	Ultra DMA 66	10.2GB
	91024U4	Ultra DMA 66	10.2GB
	91360U4	Ultra DMA 66	13.6GB
	91531U3	Ultra DMA 66	15.3GB
	92040U6	Ultra DMA 66	20GB
	92049U4	Ultra DMA 66	20GB
	92720U8	Ultra DMA 66	27GB
	93073U6	Ultra DMA 66	30.7GB
	53073U6	Ultra DMA 66	30.7GB
	94098U8	Ultra DMA 66	40GB
	54098U8	Ultra DMA 66	40GB

8.3.3 Floppy Disk Drive Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A
☐ Win NT Ver: 4.0 + SP5

CPU AMD Athlon 550MHz

☐ AMD

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

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

HDD Maxtor 91360U4 13.6GB IDE

☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

CD-ROM BTC BCD-40BXH 40X IDE

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Sound S3 Sonic Vibes PCI

☐ ISA_Slot: ☐ PCI_solt 3

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 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 98 SE Ver: 4.10.2222A .

CPU AMD Athlon 550MHz ☐ AMD

Memory NEC 128MB (D4564841G5-A80-9JF) Total: 128 MB ☐PC66 ☐ PC100

HDD Quantum Fireball KA 9.1GB IDE ☐PIO4 ☐ UDMA/66

Channel: ☐ PM ☐PS ☐SM ☐SS

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

Sound Creative Sound Blaster Live! ☐ISA_Slot: ☐ PCI_solt 2 .

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	632A	ATAPI CD-ROM 32X UDMA2
	650P	ATAPI CD-ROM 50X UDMA2
LITE-ON	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-S400	ATAPI CD-ROM 40X UDMA2
	CD-S500	ATAPI CD-ROM 50X UDMA2
Vuego	624A-304	ATAPI CD-ROM 24X Mode4
TEAC	CD-532EA	ATAPI CD-ROM 32X Mode3
Pioneer	DR-502S	ATAPI CD-ROM 24X Mode4
BTC	BCD 32X	ATAPI CD-ROM 32X UDMA2

	BCD 40XH	ATAPI CD-ROM 40X UDMA2
	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 AMD Athlon 600MHz ☐ AMD
Memory SIEMENS 64MB (HYB39S64800AT-8) **Total:** 128 MB ☐ PC66 ☐ PC100
VGA Creative Riva TNT2 Ultra 32MB SGRAM ☐ **PCI_Slot:** ____ ☐ AGP
HDD Seagate ST-310240A 10.2GB IDE ☐ PIO4 ☐ UDMA/33
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
CD-ROM TEAC CD-532EA 32X IDE **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
Sound Top Solution Ultra Live 5.1 PCI ☐ **ISA_Slot:** ____ ☐ **PCI_solt** 3 .
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
Mitsubishi	MF357G-111MA LSA-120
Panasonic	LKM-F434-105 LS-120
Zip	Z100ATAPI ZIP device 100MB
	Z100iIDE 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 AMD Athlon 600MHz ☐ AMD
 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 SONY CDU-711 32X IDE Channel: ☐ PM ☐ PS ☐ SM ☐ SS
 VGA ELSA ERAZOR III 32MB SDRAM ☐ PCI_Slot: ☐ AGP
 Sound Creative PCI64 ☐ ISA_Slot: ☐ PCI_solt 3
 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	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

8.4.2 Mouse Products

Test Configuration:

OS Ver ☐ Win 95 Ver: OSR2.5
☐ Win 98 SE Ver: 4.10.2222A
 CPU AMD Athlon 550MHz ☐ AMD
 Memory Apacer 32MB (AM2V168A1T8) Total: 96 MB ☐ PC66 ☐ PC100
 HDD Seagate ST-36421A 6.4GB IDE ☐ PIO4 ☐ UDMA/66
 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 Mediatek SY-PI Avortex AU8820 ☐ ISA_Slot: ☐ PCI_solt 2



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 ☐ AMD
CPU AMD Athlon 650MHz ☐ AMD
Memory SIEMENS 128MB (HYB39S64800BT-8) Total: 128 MB ☐ PC66 ☐ PC100
HDD Seagate ST-317242A 17.2GB IDE ☐ PIO4 ☐ UDMA/66
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 FIC Hi-Five PCI ☐ ISA_Slot: ☐ PCI_solt 3
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
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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 Ethernet Link
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 AMD Athlon 500MHz ☐ AMD
 Memory SIEMENS 32MB (HYB39S64160AT-8) Total: 64 MB ☐ PC66 ☐ PC100
 HDD Quantum Fireball CR 8.4GB IDE ☐ PIO4 ☐ UDMA/66
 Channel: ☐ PM ☐ PS ☐ SM ☐ SS
 CD-ROM ACER 650P 50X IDE Channel: ☐ PM ☐ PS ☐ SM ☐ SS
 VGA Creative Riva TNT2 Ultra 32MB SGRAM ☐ PCI Slot: ☐ AGP
 Sound Creative Sound Blaster Live! ☐ ISA Slot: ☐ PCI slot 3 .
 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
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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

The following Power Supply devices test power On/Off 10 times in the Chamber .

Vendor	Model Name	Product Description
DELTA	DPS-200PB-103A	250W ATX Remote Power Supply
Enlight	ATX-725B	250W ATX Remote Power Supply
Seventeam	ST-301HR	300W ATX Remote Power Supply
HIPRO	HP-200 NLXAG	200W ATX Remote Power Supply
	HP-250NLXAA	250W ATX Remote Power Supply
	HP-250NLXAK	250W ATX Remote Power Supply
	HP-300SN	300W ATX Remote Power Supply

9. Software Compatibility Test Suite

9.1 Base Operating System

9.1.1 Microsoft MS-DOS/Win 3.1:

Test Configuration:

CPU AMD Athlon 600MHz

Memory Apacer 64MB (GM72V66841CT7J)

HDD Quantum Fireball KA 13.6GB IDE

VGA ATI Rage Fury 32MB SDRAM

Sound Creative PCI 128

CD-ROM TEAC CD-524EA 24X IDE

Mouse Logitech TrackMan Marble Mouse

☐ AMD

Total: 128 MB ☐ PC66 ☐ PC100

☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

☐ PCI_Slot: ____ ☐ AGP

☐ ISA_Slot: ____ ☐ PCI_solt: 2.

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 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 AMD Athlon 750MHz

☐ AMD

Memory SEC 128MB (KM48S8030BT-GH)

Total: 256 MB ☐ PC66 ☐ PC100

HDD IBM DJNA-370910 9.1GB IDE

☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA Diamond Viper V770 Ultra 32MB

☐ PCI_Slot: ☐ AGP

Sound Creative PCI 128

☐ ISA_Slot: ☐ PCI_solt 2

CD-ROM Pioneer DVD-A03S 6X 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: <u>BATMAN & ROBIN</u>)	PASS	
Video CD play (name: <u>TOP GUN</u>)	PASS	
ACPI test (HCT 8.0)	PASS	
Drive Converter (FAT32)	PASS	
PM function by WIN98 (H/W)	PASS	
GAME play (name: <u>TOMB RAIDER II</u>)	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 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 OEM	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 AMD Athlon 850MHz ☐ AMD
Memory SEC 128MB (KM48S8030BT-GH) **Total: 256 MB** ☐ PC66 ☐ PC100
HDD Quantum Fireball KA 9.1GB 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	
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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

9.1.4 Microsoft Windows NT 4.0 + Service Pack:

Test Configuration:

CPU AMD Athlon 700MHz ☐ AMD
Memory SIEMENS 128MB (HYB39S64800CT-8) **Total: 128 MB** ☐ PC66 ☐ PC100
HDD Seagate ST-313032A 13GB IDE ☐ PIO4 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
VGA Matrox Millennium G400 32MB SGRAM ☐ PCI_Slot: ____ ☐ AGP
Sound Creative PCI 64 ☐ ISA_Slot: ____ ☐ PCI_solt 2
CD-ROM ASUS CD-S500/A 50X IDE **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
Mouse Logitech Mouse+ Mouse ☐ 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 Server	4.0	English	Microsoft	Pass
	4.0	Japanese	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 AMD Athlon 550MHz

Memory SEC 64MB (KM48S8030BT-GH)

HDD Fujitsu MPB3032AT 3.2GB IDE

VGA ATI Rage pro Turbo 8MB SGRAM

Sound Creative AWE64

CD-ROM Philips PCA323CD 32X IDE

Mouse Logitech Mouse+ Mouse

☐ AMD

Total: 128 MB ☐ PC66 ☐ PC100

☐ PIO4 ☐ UDMA/33

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

☐ PCI_Slot: ____ ☐ AGP

☐ ISA_Slot: 1 ☐ PCI_solt__

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

☐ COM ☐ PS/2

Test Item	Result	Remark
Install OS/2 (HPFS)	PASS	
Format FDD	PASS	
XCOPY	PASS	
Diskcopy	PASS	
VGA Resolution/Color change	PASS	
DOS Windows	PASS	
OS/2 Windows	PASS	
Boot from A: feature ready	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

9.1.6 Microsoft Windows ME:

Test Configuration:

CPU AMD Athlon 550MHz ☒ AMD
Memory Hyundai 128MB (HY57V658020B-10P) Total: 256 MB ☐ PC66 ☐ PC100
HDD Quantum Fireball LA 4.3GB IDE ☐ PIO4 ☐ UDMA/33 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
VGA Creative TNT2 Ultra 32MB SDRAM ☐ PCI_Slot: ____ ☐ AGP
Sound Creative PCI 64 ☐ ISA_Slot: ____ ☐ PCI_Slot: : 3
CD-ROM Pioneer DVD-A03S 6X 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: Mercury Rising)	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	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 Windows	7.0	Windows 95	English	Pass
	MS Office 2000		Windows 95/98	Chinese	Pass
			Windows 95/98	English	Pass
WordProcessor	AMI Pro for Windows	3.1	Windows	English	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 Perfect 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 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	Windows 95	English	Pass
	3D Studio	4.0	DOS	English	Pass
	Micro Station	5.0	Windows	English	Pass
Database	Approach 96	1.0	Windows 95	English	Pass
	Lotus Notes	4.0	Windows 95	English	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
	FoxBase Microsoft	2.1	Windows	English	Pass
	FoxPro Microsoft	6.0	Windows	English	Pass
Graphics	Corel Draw	6.0	Windows 95	English	Pass
	Fractul Design Painter	4.0	Windows 95	English	Pass
	Windows Draw	3.0	Windows	English	Pass
	MS PowerPoint	4.0	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
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 C++	4.0	Windows	English	Pass



Diagnostic Program	Borland C++	5.0	Windows 95	English	Pass
	Turbo C++	3.1	Windows	English	Pass
	Borland Delphi	2.0	Windows 95	English	Pass
	Bapco95 for Win NT	4.0	Windows NT	English	Pass
	ZD 3D Winbench 98/99	1.0	Windows 95/98	English	Pass
	PC Magazine Winstone 98/99	1.0	Windows 95/98	English	Pass
	Speed for Win95	3.0	Windows	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	Intel LANDesk Client Manager	3.0	Win95/Win NT	English	Pass
	AfterDark for Win95	3.0	Windows 95	English	Pass
	Xing Soft MPEG Player	3.2	Windows 95	English	Pass
	Norton Commander	5.04	DOS	English	Pass
	Norton Desktop	3.0	Windows	English	Pass
	Norton Utility	3.0	Windows 95	English	Pass
TimeManagement	QEMM386	8.00	Windows 95	English	Pass
	MS Project	4.1	Windows 95	English	Pass
Scan	Organizer	2.1T	Windows	Chinese	Pass
	PC-cillin 97	3.0	Windows 95	English	Pass
	PC-cillin 98	4.021	Windows 95/98	English	Pass
	Norton Antivirus	5.0	Windows 95/98	English	Pass
Internet	Winsock	1.0	Windows 95	English	Pass
	Netscape	3.01	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
	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
	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		DOS/WIN95	English	Pass
Blood & Magic		DOS/WIN95	English	Pass
Wing Commander III		DOS/WIN95	English	Pass
Wing Commander IV		Window 95	English	Pass
TOMB Raider III		Window 95/98	English	Pass
AGE of EMPIRES(Expansion)		Window 95/98	English	Pass
Moto Racer 2		Window 95/98	English	Pass
Need for Speed III		Window 95/98	English	Pass
Klingon Honor Gurd		Window 95/98	English	Pass
F-15		Window 95/98	English	Pass
SIM City 3000		Window 95/98	English	Pass
Baldur's Gate		Window 95/98	English	Pass
STAR WARS ROGUE SQUADRON 3D		Window 95/98	English	Pass
X-WING COLLECTOR SERIES		Window 95/98	English	Pass
TUOK SEED OF EV 2		Window 95/98	English	Pass
Lands of Lore III		Window 95/98	English	Pass
Popvlov		Window 95/98	English	Pass
Need For Speed -High Stakes		Window 95/98	English	Pass
Civilization		Window 95/98	English	Pass
DESCENT III		Window 95/98	English	Pass
Starcraft		Window 95/98	English	Pass
Starcraft – Expansion Set(Brood War)		Window 95/98	English	Pass
Command & Conquer – TIBERIAN SUN		Window 95/98	English	Pass
Flight Unlimited III		Window 95/98	English	Pass