

# **FIC AZ11 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT**

**Product Version:**      *V 1.2*  
**BIOS Version:**        VDA44  
**Report Date:**         10/05/2000  
**Revision:**             1.03



## Revision History

Document Release	Date	Change Item	ECN
Revision 1.00	7/06/2000	Initial Release	
Revision 1.01	7/18/2000	Add support VIA KT133/VT8363 "F" version.	M00401-E-015
		Add support Sigmatel 9700 codec for AC'97 Audio.	M00401-E-016
		Add support AGP VGA list: ASUS AGP-V7700 4X AGP ATI All-In-Wonder 128 Pro 4X AGP Creative 3D Blaster Geforce2 GTS 4X AGP 3dfx Voodoo5 5500 2X AGP	
Revision 1.02	9/05/2000	Add support AMD Athlon 1.1GHz CPU.	M00401-E-026
		Add support AGP VGA list: 3D Labs Qxygen VX1 2X AGP Cardex Cardexpert TNT2 Vanta 2X AGP Leadtek Winfast Geforce2 MX 4X AGP Leadtek Winfast 3D S320 II Pro 4X AGP	
Revision 1.03	10/05/2000	BIOS update version to VDA44 Add support AMD Duron 750/800MHz CPU Add support Windows ME (Millennium Edition) Add support PROMISE ATA/100 PCI IDE card	M00401-E-035



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Communication  
Database  
Graphics  
Presentation  
Program  
Diagnostic Utility  
Tools  
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** : AZ11 PCB Rev 1.2  
**Product Name** : VIA KT133 Based Mainboard  
**System BIOS** : Award BIOS Version VDA44  
**PCI IDE** : Internal PCI Mastre dual IDE  
**I/O** : VIA VT686A

## 3. Mainboard CPU Supports:

AMD Processors	Bus	Status
Duron 600MHz	100	Pass
Duron 650MHz	100	Pass
Duron 700MHz	100	Pass
Duron 750MHz	100	Pass
Duron 800MHz	100	Pass
Athlon 700MHz	100	Pass
Athlon 800MHz	100	Pass
Athlon 850MHz	100	Pass
Athlon 900MHz	100	Pass
Athlon 950MHz	100	Pass
Athlon 1GHz	100	Pass
Athlon 1.1GHz	100	Pass

- Socket A Fan-Sink : Please refer to AMD's Web side recommendation. Especially, over 850 MHz CPUs.

## 4 System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	VIA KT133 (VT8363_E/F+686A_C)
System Cache	64K/256K Pipeline Burst SRAM Built-in CPU
System Memory	Maximum : 1.5GB SDRAM 168 pins single RAS and Double RAS DIMM RAM Module
System Slots	1 AGP and 5 PCI slots
Audio	OnChip VIA VT686A AC'97 Audio on board
IO Corelogic	VIA VT686A Support Normal,EPP,ECP mode and IR interface



#### 4.1 Main Functionality :

Num.	M/B function	Result
1	ACPI Ready (under Win 98 SE/Win 2000)	PASS
2	APM 1.2	PASS
3	RTC Alarm Function	PASS
4	Logo Genie	PASS
5	BIOS Easy Kit	PASS
6	Overclock Partner	PASS
7	BIOS Flash Protect (Guardian feature)	PASS
8	Ultra ATA-33/66 Enhanced IDE Interface	PASS
9	USB Function	PASS
10	Year 2000 Compliance	PASS

#### 4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	VIA IDE Bus Master for Win 98	2.1.47	PASS
2	VIA IDE Bus Master for Win NT	2.1.47	PASS
3	VIA AGP VxD Utilities for Win 95/98	4.03	PASS
4	VIA INF Driver	1.02	PASS
5	VIA IRQ Routing Table	1.30	PASS
6	Onboard VIA VT686A Audio driver for Win 9x	1.09	PASS
7	Onboard VIA VT686A Audio driver for Win NT	1.09	PASS
8	Award BIOS Flash ROM Utilities	7.64A	PASS
9	Award DMICFG Utilities for DOS	2.3Du	PASS

### 5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPK	Open	Pass
Power LED	PW_LED	Open	Pass
IDE LED Connector	IDE_LED	Open	Pass
Reset Switch	RST	Open	Pass
Remote Power Switch	RPW_SW	Open	Pass
Sleep LED	SP_LED	Open	Pass
CPU FAN Connector	CPU_FAN	Open	Pass
Case FAN Connector	CASE_FAN	Open	Pass
Clear CMOS	CLR_CMOS	1-2	Pass
System Bus Clock	100MHz/133MHz	2-3	Pass
Magic Tunner	MAGIC_TUNNER	2-3	Pass



## 6. Stability Test

### 6.1 Worst Case Test :

#### 1. Temperature Strife Margin Test : ( 1 day)

System Configuration	
<b>CPU</b> : AMD Athlon 700	<b>Mouse</b> : Microsoft PS/2 mouse
<b>Cache Memory</b> : 256 K	<b>PowerSupply</b> : HIPRO HP-200NLXAG 200W
<b>On Board Memory</b> : SDRAM 192MB (64MB x3)	<b>O.S. Environment:</b> MS-DOS 6.22,Win 98,UNIX
<b>HDD</b> : Fujitsu F1623TAU 1.7GB	<b>Chamber</b> : KATO SE-47CRT
<b>VGA</b> : ATI Rage pro Turbo	
<b>FDD</b> : NEC FD1231T 1.44MB	

DC voltage: 3.3V and 5V fixed

Temperature range: -30 ~ 60C ° (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.	Peter Chuang	PASS	

#### 2. Full Loading Test : ( 1 day)

System Configuration	
<b>CPU</b> : AMD Duron 700	<b>PCI 2</b> : Tekrem DC-390F SCSI card
<b>Cache Memory</b> : 64 K	<b>PCI 3</b> : Intel 82559 10/100 LAN card
<b>On Board Memory</b> : SDRAM 384MB (128MB x 3)	<b>Mouse</b> : Microsoft PS/2 mouse
<b>HDD 1</b> : Quantum Fireball CX 4.3GB	<b>PowerSupply</b> : HIPRO HP-200NLXAG 200W
<b>HDD2</b> : Maxtor 90871U2 8.7GB	<b>O.S. Environment:</b> Win 2000
<b>HDD3</b> : WD 38400 8.4GB	
<b>CD-ROM</b> : ASUS CD-S400/A 40X	
<b>VGA</b> : Cardex TNT2 AGP	
<b>FDD</b> : NEC FD1231T 1.44MB	

DC voltage: 3.3V and 5V fixed.

Temperature range: Ambient Temperature (about 25°C)

Frequency tested are on 100MHz with a ±10% frequency variation.

Diagnostic Program: ZD WinStone 99/CC WinStone 2000 burn in.

NO.	Test Engineer	Test Result	Remark
1.	Rex Wen	PASS	

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

System Configuration	
<b>CPU</b> : AMD Duron 600	<b>Mouse</b> : Microsoft PS/2 mouse
<b>Cache Memory</b> : 64 K	<b>PowerSupply</b> : HIPRO HP-200NLXAG 200W
<b>On Board Memory</b> : SDRAM 256MB (128MB x 2)	
<b>VGA</b> : ASUS AGP-V3400TNT	
<b>FDD</b> : NEC FD1231T 1.44MB	

DC voltage: change power voltage 3.0V/5.0 V ± 0.5% (Vcc)

Power on and off test using both 110V/220V input .

Temperature range: 25°C





NO.	Test Engineer	Test Result	Remark
1.	Peter Chuang	PASS	Cool boot total: 1000 times

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

Software Name	Duration	Result
Winstone 99 Under WIN98 SE	24hr.	<i>Pass</i>
Test Configurations for Win 98	AMD Duron 700MHz IBM DPTA-372730 Ultra DMA66 27.3GB HDD Buffalo 128MB SDRAM Memory.(Hitachi) Diamond Viper V770 32MB SDRAM AGP VGA	
CC Winstone 2000 Under WIN2000	24hr.	<i>Pass</i>
Test Configurations for Win 2000	AMD Athlon 800MHz IBM DPTA-372730 Ultra DMA66 27.3GB HDD Buffalo 128MB SDRAM Memory.(NEC) Diamond Viper V770 32MB SDRAM AGP VGA	
Winstone 99 Under Windows NT 4.0	24hr.	<i>Pass</i>
Test Configurations for Windows NT 4.0	AMD Athlon 800MHz IBM DPTA-372730 Ultra DMA66 27.3GB HDD SIEMENS 128MB SDRAM Memory. ATI XPERT 2000 32B SDRAM AGP VGA	



## 8. Hardware Compatibility Test Suite

### 8.1 Memory

#### Test Configuration:

**OS Ver**  Win 98 **SE Ver:** 4.10.2222A .  
**CPU** AMD Athlon 800MHz (Bus clock 100MHz)  AMD  
**HDD** Fujitsu MPE3102AH 10.2GB IDE  PIO4  UDMA/66  
**Channel:**  PM  PS  SM  SS  
**VGA** Creative TNT2 Ultra 32MB SDRAM  PCI\_Slot: \_\_\_\_ .  AGP 4X  
**CD-ROM** Creative CD5220E 52X IDE **Channel:**  PM  PS  SM  SS  
**Sound** VIA VT686A  ISA\_Slot: \_\_\_\_ .  On board  
**Mouse** Microsoft IntelliMouse PS/2 Mouse  COM  PS/2

The following SDRAM module test Winstone 99 V1.3 under Windows 98 SE 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 (PC100)

Vender	IC Part No.	ECC	Size	Side	Module No.
NEC	D4564841G5-A80-9JF	Yes	128MB	D	BUFFALO VSJ-ED128M2
Hyundia	HY57V658020B-10P	No	128MB	D	VSJ-D128M2
SIMONS	D45128163G5-A10B-9JF	No	64MB	S	
KingSton	PTT3S128081T-8	No	128MB	S	DT100128M8-T01151
	TC59SM716FT-80	No	64MB	S	KGM100X64C2/64 (Toshiba)
SIEMENS	HYB39S64800AT-8	No	64MB	S	HYS64V8200GU-8
	HYB39S64800AT-8	Yes	128MB	D	HYS72V16220GU-8
	HYB39S64800BT-8	No	64MB	S	HYS64V8200GU-8
	HYB39S64800BT-8	Yes	128MB	D	HYS72V16220GU-8
	HYB39S64800CT-8	No	64MB	S	HYS64V8300GU-8-C
	HYB39S64800CT-8	Yes	128MB	D	HYS72V16220GU-8-C
SEC	KM48S2020CT-GH	Yes	32MB	D	BUFFALO VSJ-D32M
	KM48S8030BT-GH	Yes	64MB	S	BUFFALO VSJ-ES64M2
	KM48S8030BT-GH	No	128MB	D	BUFFALO VSJ-D128M2
	KM48S16030T-GL	Yes	256MB	D	
Apacer	GM72V66841XT7J	No	64MB	S	71.63320.065 (HYUNDAI)
	GM72V66841ET7K	No	128MB	D	71.73323.065 (HYUNDAI)
KingMax	KSV884T4A1A-08A	No	64MB	S	MPC643S-882
	KSV884T4A1A-08A	No	128MB	D	MPCA83S-882
Winbond	W981216AH-75	No	64MB	S	VSJ-S64M2

**8.1.2 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
	HYB39S256800BT-7.5	Yes	512MB	D	HYS72V64220GU-7.5
MICRON	MT48LC8M8A2-75B	No	64MB	S	MT8LSDT864AG-133B4
	MT48LC8M8A2-75B	Yes	64MB	S	MT9LSDT872AG-133B4
	MT48LC8M8A2-75B	No	128MB	D	MT16LSDT1664AG-133B4
Mitsubishi	M2V64S30BTP	No	64MB	S	MH8S64BALD-6
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
Apacer	HYB39S64800BT-7.5	No	64MB	S	71.63350.114
	AM2V648C2T75	No	64MB	S	71.63350.034
	HYB39S64800BT-7.5	No	128MB	D	71.73350.114
	GM72V66841XT75	No	128MB	D	71.73350.064
	HYB39S64800AT-7.5	No	128MB	D	71.73350.114
	AM2V648C2T75	No	128MB	D	71.73350.034
Buffalo	W981208ah-75	No	128MB	S	VS133-128M
	GM72V66841ET7K	No	128MB	D	VS133-128M
	GM72V66841ET7K	No	64MB	S	VS133-64MB
V-TEC	GM72V66841ET75	No	64MB	S	
SIMONS	D45128841G5-A80-9JF	No	128MB	S	
KingSton	HYB39S64800BT-7.5	No	64MB	S	KVR-PC133/64
	TC59SM708FT-75	No	128MB	S	KGM133X64C3/128
	HYB39S64800BT-7.5	No	128MB	D	KVR-PC133/128
	0312804CT3A-75A	No	256MB	D	KVR-PC133/256
KingMAX	KSV884T4A1A-07	No	64MB	S	MPG643S-883
	KSV884T4A1A-07	No	128MB	D	MPGA83S-883
Hitachi	5264805FTT75	No	64MB	S	VS133-64M
	5264805FTT75	No	128MB	D	VS133-128M
SIMONS	D45128841G5-A80-9JF	No	128MB	S	



## 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 1GHz  AMD  
**Memory** KingStone 128MB (PTT3S128081T-8) **Total:** 256 MB  PC66  PC100  
**HDD** Seagate ST-330630A 30.6GB  PIO4  UDMA/66  
**Channel:**  PM  PS  SM  SS  
**CD-ROM** Hitachi CDR-8430 32X IDE **Channel:**  PM  PS  SM  SS  
**Sound** VIA VT686A  ISA\_Slot:      Onboard  
**Mouse** Logitech MouseMan Mouse  COM  PS/2

The following PCI/AGP VGA cards test 3D WinBench 200 V1.0 /3Dmark 2000/Final Reality 1.01 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	Driver version
ATI	Rage pro	XPERT@Play 98	4.11.2611
	Rage pro Turbo	XPERT 98	4.11.2611
	Rage 128GL	Rage Fury	4.11.6222
	Rage 128GL	All-In-Wonder 128	4.11.6222
	Rage 128GL	XPERT 128	4.11.6222
	Rage 128VR	XPERT 2000	4.11.6222
	Rage 128 Pro	Rage Fury MAXX	4.11.7936
ASUS	Riva 128ZX	AGP-V3000ZXTV	4.10.01.0250
	S3 Savage 3D	AGP-V3100	4.11.01.4005
	3Dfx Voodoo Banshee	AGP-V3200	4.11.01.0378
	Riva TNT	AGP-V3400TNT	4.12.01.0375
	Riva TNT2	AGP-V3800	4.12.01.0375
Matrox	MGA-G200	Millennium G200	4.11.01.2520
	MGA-G200A	Millennium G200 LE	4.11.01.2410
	MGA-G400	Millennium G400 DH	4.11.01.1410
Diamond	3DLabs Permedia II	Fire GL1000 pro	4.10.01.2359
	Riva 128	Viper V330	4.10.01.0279
	Riva TNT	Viper V550	4.12.01.0368
	3Dfx Voodoo Banshee	Monster Fusion	4.10.01.0213
PowerColor	S3 Savage 3D	Savage 3D	4.11.01.4005
Gigabyte	S3 Savage 4	GA-650	4.11.01.8006
JIN JIU	SiS 6326	6326 AGP	4.10.01.0905
Leadtek	Riva TNT2 Ultra	Winfast 3D S320 II Ultra	4.11.01.0240
	SiS 300	Winfast VR300	4.12.01.1020
	Riva TNT2 Vanta	WinFast 3D S320V	4.11.01.2410



Creative	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra	4.12.01.2207
	Riva TNT2 M64	Riva TNT2 Value	4.12.01.2302
	Riva Geforce 256	3D Blaster GeForce256	4.12.01.2302
	Riva Geforce 256	3D Blaster GeForce Pro	4.12.01.2302
3D labs	Glint R3	Oxygen VX1	4.12.01.2107
Cardex	Riva TNT2 Vanta	Cardexpert TNT2 Vanta	4.12.01.0377
YUAN	Riva TNT2 M64	3D Xtreme2	4.12.01.0522
ELSA	3Dlabs Permedia II	Gloria Synergy	4.11.01.0203
	Riva TNT	ERAZOR II	4.12.01.0112
	3Dfx Voodoo Banshee	Victory II	4.11.01.0300
	Riva TNT2 M64	ERAZOR III LT	4.12.01.0112
	Riva TNT2 Vanta	ERAZOR III LT-16	4.12.01.0116
	Riva Geforce2 GTS	GLADIAC	4.12.01.0204
3dfx	Voodoo 3 2000	Voodoo 3 2000	4.12.01.1222
	Voodoo 3 3000	Voodoo 3 3000	4.12.01.1222
	Voodoo 3 3500	Voodoo 3 3500 TV	4.11.01.1222
	Voodoo 5 5500	Voodoo 3 5500	4.12.01.0543

### 8.2.1.2 4X AGP Display Adapter Products

Vendor	Model Name	Product Description	Driver version
Diamond	Riva TNT2	Viper V770	4.12.01.0368
	Riva TNT2 Ultra	Viper V770 Ultra	4.12.01.0368
	S3 Savage 2000	Viper II	4.12.01.9006
Matrox	MGA-G400	Millennium G400 SH	4.12.01.1520
	MGA-G400	Millennium G400 MAX	4.12.01.1520
ATI	Rage 128 Pro	Rage Fury Pro	4.11.6249
	Rage 128 Pro	All-In-Wonder 128 Pro	4.12.6281
ASUS	S3 Savage 4	AGP-V3500	1.00.0603
	Riva TNT2 Pro	AGP-V3800 Pro	4.12.01.0375
	Riva GeForce 256	AGP-V6600	4.12.01.0375
	Riva GeForce2 GTS	AGP-V7700	4.12.01.0522
Leadtek	Riva TNT2 M64	WinFast 3D S325	4.11.01.0208
	Riva GeForce 256	Winfast GeForce256	4.12.01.0379
	GeForce256 GTS	Winfast GeForce 2 GTS	4.12.01.0384
Creative	Savage 4	3D Blaster Savage 4	4.11.01.2104
	GeForce256 GTS	3D Blaster GeForce2 GTS	4.12.01.2302
	GeForce2 MX	Winfast GeForce2 MX	4.12.01.0522
	Riva TNT2 Pro	WinFast 3D S320 II Pro	4.11.01.0240
Cardex	S3 Savage 2000	Cardexpert Savage 2000	4.11.01.9001
Gigabyte	Riva TNT2 Pro	GA-660 Plus	4.11.01.0208
Hercules	Riva GeForce 256	3D Prophet DDR-DVI	4.12.01.0377
ELSA	Riva TNT2	ERAZOR III	4.12.01.0112
	Riva TNT2	Synergy II	4.12.01.0116
	Savage 4	Winner II	4.11.01.0310
	Riva TNT2 Pro	ERAZOR III Pro	4.12.01.0112
	Riva GeForce 256	ERAZOR X	4.12.01.0112
	Riva GeForce 256 DDR	ERAZOR X <sup>2</sup>	4.12.01.0112



### 8.2.1.3 PCI Display Adapter Products

Vendor	VGA Chip	Product Description
Cardex	SiS 6326	Cardexpert 6326
Creative	S3 Savage 4	3D Blaster Savage 4
ASUS	Riva TNT2	PCI-V3800

### 8.2.2 SCSI Adapter Products

#### Test Configuration:

**OS Ver**  Win 98 SE Ver: 4.10.2222A .  
**CPU** AMD Duron 700MHz  AMD  
**Memory** SIEMENS 128MB (HYB39S64800BT-7.5)Total: 256 MB  PC66  PC133  
**VGA** Leadtek Winfast VR300 AGP VGA  PCI\_Slot:\_\_\_\_.  AGP  
**HDD** IBM DCAS-34330 4.3GB SCSI HDD  Ultra II SCSI  Ultra Wide  
 Quantum Atlas 10K 18.2GB SCSI HDDUltra SCSI  Ultra Wide  
**CD-ROM** Plextor PX-40Tsi 40X SCSI  Ultra SCSI  Ultra Wide  
**Sound** VIA VT686A  ISA\_Slot:\_\_\_\_.  On board  
**Mouse** Logitech MouseMan Mouse  COM  PS/2

The following PCI SCSI cards run Winstone 99 under Windows 98 SE with their respective SCSI drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

Vendor	Model Name	Product Description	Bus I/F
Adaptec	AHA-2940UW	Adaptec AHA-2940UW PCI SCSI card	PCI
	AHA-2940U2W	Adaptec AHA-2940U2W PCI SCSI card	PCI
	ASC-29160	Adaptec Ultra 160 PCI SCSI card 29160	PCI
	ASC-39160	Adaptec Ultra 160 PCI SCSI card 39160	PCI
BusLogic	KT-958	Buslogic KT-958 Narrow SCSI	PCI
Initio	INI-9100UW	Initio INI-9100UW PCI SCSI	PCI
Tekram	DC-390U2W	Tekram DC-390U2W PCI SCSI	PCI

### 8.2.3 ATA/100 PCI IDE Products

#### Test Configuration:

**OS Ver**  Win 98 SE Ver: 4.10.2222A  
**CPU** AMD Athlon 1.1GHz  AMD  
**Memory** SIEMENS 128MB(HYB39S64800CT-8)Total: 256 MB  PC66  PC100  
**VGA** ELSA ERAZOR III LT  PCI\_Slot:\_\_\_\_.  AGP



**HDD** IBM DTLA-307020 20.5GB UDMA/66 UDMA/100  
**CD-ROM** Acer 650P 50X IDE **Channel:** PM PS SM SS  
**Sound** VIA VT686A **Channel:** PM PS SM SS  
**Mouse** Logitech MouseMan Mouse ISA\_Slot:\_\_\_  Onboard  
COM  PS/2

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

Vendor	Product Description	Bus I/F
PROMISE	Ultra ATA/100 Controller Card for PCI	Internal/PCI

## 8.3 Storage

### 8.3.1 SCSI Peripheral Products

#### Test Configuration:

**OS Ver**  Win 98 SE Ver: 4.10.2222A  Win NT Ver: 4.0 + SP6  
**CPU** AMD Duron 700MHz  AMD  
**Memory** Hyundia 128MB (HY57V658020B-10P) **Total:** 256 MB PC66  PC100  
**VGA** ATI XPERT 128 16MB 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 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
Hard Disk	Quantum	Viking II	Ultra2 Wide SCSI HDD 4.5GB
		Atlas II	Ultra SCSI HDD 4.5GB
		Atlas III	Ultra Wide SCSI HDD 9.1GB
		Atlas V	Ultra Wide SCSI HDD 18GB
		Atlas 10K	Ultra2 SCSI HDD 18.2GB
	Seagate	ST-34555N	Ultra SCSI HDD 4.5GB
		ST-32272W	Ultra Wide SCSI HDD 2.2GB
		ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST318404LW	Cheetah Ultra160 Wide 18GB
		ST-34502LW	Cheetah 9LP Ultra2 Wide 4.5GB
	IBM	DCAS34330	Ultra SCSI HDD 4.5GB
		DCAS34330	Ultra Wide SCSI HDD 4.5GB
		DMVS IEC-950	Ultra2 Wide SCSI HDD 9.1GB
DMVS IEC-950		Ultra2 Wide SCSI HDD 36GB	
CD-ROM CD-RW	Plextor	PX-40Tsi	Ultra SCSI CD-ROM 40X



	Panasonic	CR-508	SCSI-II CD-ROM 24X
	NEC	CDR-1910	Ultra SCSI CD-ROM 32X
	SONY	CDU-625	SCSI-II CD-ROM 24X
	TEAC	CD-523S	Ultra SCSI CD-ROM 32X
		CD-R56S	SCSI-II CD-ROM 24R/6W/4RW
	Toshiba	XM-6210B	Ultra SCSI CD-ROM 32X
ZIP	iomega	ZIP 250	SCSI ZIP 250 External

### 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 AMD Duron 700MHz  AMD

Memory SEC 256MB (KM48S16030T-GL) Total: 512 MB  PC66  PC100

CD-ROM Lite-On LTN-485S 48X IDE CD-ROM Channel:  PM  PS  SM  SS

VGA Diamond Viper V550 16MB SDRAM  PCI\_Slot:      .  AGP

Sound VIA VT686A  ISA\_Slot:      .  On board

Mouse Logitech First Mouse+ Mouse  COM  PS/2

The following IDE devices test Winbench 99 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
	AC313000	Ultra DMA 66	13GB
Seagate	ST-36421A	Ultra DMA 66	6.4GB
	ST-313032A	Ultra DMA 66	13GB
	ST-317242A	Ultra DMA 66	17.2GB
	ST-328040A	Ultra DMA 66	28.5GB
Fujitsu	MPE3064AT	Ultra DMA 66	6.4GB
	MPE3102AT	Ultra DMA 66	10.2GB
	MPE3102AH	Ultra DMA 66	10.2GB
	MPE3204AT	Ultra DMA 66	20.4GB
	MPE3204AH	Ultra DMA 66	20.4GB
Quantum	Fireball CR	Ultra DMA 66	4.3GB
	Fireball CR	Ultra DMA 66	8.4GB
	Fireball CX	Ultra DMA 66	10.2GB
	Fireball CX	Ultra DMA 66	13GB
	Fireball KA	Ultra DMA 66	13.6GB
	Fireball LA	Ultra DMA 66	4.3GB
	Fireball LA	Ultra DMA 66	8.4GB
	Fireball LB	Ultra DMA 66	10.2GB
	Fireball Plus LM	Ultra DMA 66	20.5GB
	Fireball LM	Ultra DMA 66	30GB
IBM	DJNA-370910	Ultra DMA 66	9.1GB
	DJNA-351350	Ultra DMA 66	13.5GB
	DJNA-352030	Ultra DMA 66	20.3GB
	DPTA-372730	Ultra DMA 66	27.3GB
	DPTA-353750	Ultra DMA 66	37.5GB
Maxtor	91021U2	Ultra DMA 66	10.2GB
	91024U4	Ultra DMA 66	10.2GB
	91360U4	Ultra DMA 66	13.6GB
	91531U3	Ultra DMA 66	15.3GB
	92040U6	Ultra DMA 66	20GB
	92049U4	Ultra DMA 66	20GB
	92720U8	Ultra DMA 66	27GB
	93073U6	Ultra DMA 66	30.7GB
	53073U6	Ultra DMA 66	30.7GB
	94098U8	Ultra DMA 66	40GB
54098U8	Ultra DMA 66	40GB	
Samsung	SV2046D	Ultra DMA 66	20.4GB

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

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

**8.3.3 Floppy Disk Drive Products****Test Configuration:**OS Ver  Win 98 SE Ver: 4.10.2222A . Win NT Ver: 4.0 + SP6CPU AMD Duron 600MHz  AMDMemory NEC 128MB (D4564841G5-A80-9JF) Total: 128 MB  PC66  PC100VGA Diamond Viper V770 32MB SDRAM  PCI\_Slot:     .  AGPHDD Quantum Fireball KA 13.6GB IDE  PIO4  UDMA/66Channel:  PM  PS  SM  SSCD-ROM BTC BCD 48SB 48X IDE Channel:  PM  PS  SM  SSSound VIA VT686A  ISA\_Slot:     .  On boardMouse Logitech MouseMan Mouse  COM  PS/2

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

Vendor	Model Name	Product Description
Panasonic	JU-257A606P	1.44MB Floppy Disk Drive
TEAC	FD-235HF	1.44 MB Floppy Disk Drive
SONY	MPF920-E	1.44 MB Floppy Disk Drive
ALPS	DF354N901C	1.44 MB Floppy Disk Drive

### 8.3.4 ATAPI CD-ROM /DVD-ROM Device Product

#### Test Configuration:

OS Ver  Win 98 SE Ver: 4.10.2222A .  
 CPU AMD Athlon 800MHz  AMD  
 Memory SIMONS 128MB(D45128163G5-A10B-9JF)Total: 128 MB  PC66  PC100  
 HDD IBM DJNA-371350 13.5GB IDE  PIO4  UDMA/66  
 Channel:  PM  PS  SM  SS  
 VGA ELSA ERAZOR III 32MB SDRAM  PCI\_Slot:       AGP  
 Sound VIA VT686A  ISA\_Slot:       On board  
 Mouse Logitech TrackmanMarble Mouse  COM  PS/2

The following IDE devices test CD Winbench 99 and play VCD/DVD under indows 98 with VIA IDE Bus Master drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

#### 8.3.4.1 ATAPI CD-ROM:

Vendor	Model Name	Product Description
Mitsumi	CRMC-FX320S	ATAPI CD-ROM 32X Mode4
Acer	650P	ATAPI CD-ROM 50X UDMA2
LITE-ON	LTN-403L	ATAPI CD-ROM 40X UDMA2
	LTN-485S	ATAPI CD-ROM 48X UDMA2
TEAC	CD-540E	ATAPI CD-ROM 40X UDMA2
Hitachi	CDR-8430	ATAPI CD-ROM 32X Mode4
Philips	PCA323CD	ATAPI CD-ROM 32X UDMA2
Creative	CD4834E	ATAPI CD-ROM 48X Mode4
	CD5220E	ATAPI CD-ROM 52X Mode4
ASUS	CD-S400/A	ATAPI CD-ROM 40X UDMA2
	CD-S500/A	ATAPI CD-ROM 50X UDMA2
SONY	CDU-711	ATAPI CD-ROM 32X UDMA2
	CDU-4811	ATAPI CD-ROM 48X UDMA2
BTC	BCD 48SB	ATAPI CD-ROM 48X UDMA2

#### 8.3.4.2 ATAPI DVD-ROM:

Vendor	Model Name	Product Description
Panasonic	SR-8583-B	ATAPI DVD-ROM 5.0X
	SR-8584-B	ATAPI DVD-ROM 6.0X
Afreey	DD-4008E	ATAPI DVD-ROM 8.0X
	DD-4010E	ATAPI DVD-ROM 10X
Hitachi	GD-2500	ATAPI DVD-ROM 6X
Sony	DDU220E	ATAPI DVD-ROM 5X



Toshiba	SD-M1202	ATAPI DVD-ROM 4.8X
Creative	DVD8400E	ATAPI DVD-ROM 8.0X
Pioneer	DVD-114	ATAPI DVD-ROM 10X
	DVD-115	ATAPI DVD-ROM 16X

### 8.3.5 ATAPI Disk Drive (IDE Interface)

#### Test Configuration:

**OS Ver**  Win 98 **SE Ver:** 4.10.2222A .  
**CPU** AMD Duron 650MHz  Intel  
**Memory** Apacer 64MB (GM72V66841CT7J) **Total:** 128 MB  PC66  PC100  
**VGA** ATI XPERT 2000 32MB SDRAM  PCI\_Slot: \_\_\_\_ .  AGP  
**HDD** Seagate ST-317242A 17.2GB IDE  PIO4  UDMA/66  
**Channel:**  PM  PS  SM  SS  
**CD-ROM** Acer 650P 50X IDE **Channel:**  PM  PS  SM  SS  
**Sound** VIA VT686A  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 VIA IDE Bus Master drivers installed .

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

## 8.4 Peripherals

### 8.4.1 Parallel/Serial Port Products

#### Test Configuration:

**OS Ver**  Win 98 **SE Ver:** 4.10.2222A .  
**CPU** AMD Duron 700MHz  AMD  
**Memory** KingMax 64MB(KSV884T4A1A-08A) **Total:** 128 MB  PC66  PC100  
**HDD** Quantum Fireball CX 13GB IDE  PIO4  UDMA/66  
**Channel:**  PM  PS  SM  SS  
**CD-ROM** Afreedy DD-4008E 8X IDE DVD **Channel:**  PM  PS  SM  SS  
**VGA** ASUS AGP-V3400TNT 16MB SGRAM  PCI\_Slot: \_\_\_\_ .  AGP  
**Sound** VIA VT686A  ISA\_Slot: \_\_\_\_ .  On board  
**Mouse** Logitech TrackMan Marble Mouse  COM  PS/2

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



Vendor	Product Description	Bus I/F
HP	HP LaserJet 6P support IR Interface	LPT
Mustek	Mustek 1200CP Scanner	LPT
Kodak	DC210 InfraRed/Serial port Digital camera	COM
Motorola	VoiceSURFR 56K	COM
USR	Sportster 56K Faxmodem Modem	COM

### 8.4.2 Mouse Products

#### Test Configuration:

**OS Ver**  Win 98 SE Ver: 4.10.2222A .  
**CPU** AMD Duron 700MHz  AMD  
**Memory** KingSton 128MB (PTT3S128081T-8) **Total: 128 MB**  PC66  PC100  
**HDD** Seagate ST-328040A 28.5GB IDE  PIO4  UDMA/66  
**Channel:**  PM  PS  SM  SS  
**CD-ROM** BTC BCD 48SB 48X IDE **Channel:**  PM  PS  SM  SS  
**VGA** Voodoo3 3000 16MB SDRAM  PCI\_Slot: \_\_\_\_ .  AGP  
**Sound** VIA VT686A  ISA\_Slot: \_\_\_\_ .  On board

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

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

### 8.4.3 USB Device Products

#### Test Configuration:

**OS Ver**  Win 98 SE Ver: 4.10.2222A .  
**CPU** AMD Athlon 700MHz  AMD  
**Memory** KingMax 64MB(KSV884T4A1A-08A) **Total: 128 MB**  PC66  PC100  
**HDD** Maxtor 91531U3 15.3GB IDE  PIO4  UDMA/66  
**Channel:**  PM  PS  SM  SS  
**CD-ROM** Creative CD4834E 48X IDE **Channel:**  PM  PS  SM  SS  
**VGA** ELSA Synergy II 32MB SDRAM  PCI\_Slot: \_\_\_\_ .  AGP  
**Sound** VIA VT686A  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	USB Wheel Mouse
		USB MouseMan Wheel
	Microsoft	IntelliMouse USB/PS2 Mouse (w IntelliEye)
	Justy	UM-400
	Cypress	7-895 Mouse
Camera	Kodak	DVC323
Keyboard	BTC	8113W
	Microsoft	Natural Keyboard Pro
Printer	EPSON	Stylus Color 740
Ethernet	CATC	USB to Lan 10BASE-T
GamePad	Creative	Cobra USB GamePad
	Logitech	WingMan Extreme USB GamePad
Joystick	Logitech	WingMan Formula Force joystick

### 8.4.4 Joystick & Game Pad

#### Test Configuration:

**OS Ver**  Win 98 **SE Ver:** 4.10.2222A .  
**CPU** AMD Duron 700MHz  AMD  
**Memory** SEC 64MB (KM48S8030BT-GH) **Total:** 192 MB  PC66  PC100  
**HDD** Maxtor 86480D6 6.4GB IDE  PIO4  UDMA/33  
**Channel:**  PM  PS  SM  SS  
**CD-ROM** Lite-On LTN-403L 40X IDE **Channel:**  PM  PS  SM  SS  
**VGA** Creative Geforce256 32MB SDRAM  PCI\_Slot:       AGP  
**Sound** VIA VT686A  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.

Type	Vendor	Product Description
GamePad	Logitech	ThunderPad Digital
Joystick	Logitech	Wing Man Extreme digital joystick
		WingMan Force joystick
		CyberMan2 Digital Game Controller

### 8.5 Power Supply Products

Vendor	Product Description	Power	Type
DELTA	DPS-200PB-103A	200W	ATX
	DPS-200PB-103D	200W	ATX
	DPS-200PB-103F	200W	ATX
HIPRO	HP-250NLXAK Rev:01	250W	NLX
	HP-200 NLXAG	200W	NLX
	HP-200NLXAA	250W	NLX



	HP-250NLXAA	250W	NLX
	HP-300SN Rev:02	300W	ATX
Seventeam	ST-250GL	250W	ATX
	ST-301HR	300W	ATX
Enlight	ATX-723B	230W	ATX
	ATX-725B	250W	ATX

## 8.6 MPEG-2 DVD Display Products

### Test Configuration:

**OS Ver**  Win 98 **SE Ver:** 4.10.2222A .  
**CPU** AMD Duron 700MHz  AMD  
**Memory** SEC 128MB (KM48S8030BT-GH) **Total:** 256 MB  PC66  PC100  
**HDD** Seagate ST-317242A 17.2GB IDE  PIO4  UDMA/66  
**Channel:**  PM  PS  SM  SS  
**CD-ROM** Pioneer DVD-114 10X IDE DVD **Channel:**  PM  PS  SM  SS  
**VGA** Matrox Millennium G200 LE 8MB SDRAM  PCI\_Slot: \_\_\_\_  AGP  
**Sound** VIA VT686A  ISA\_Slot: \_\_\_\_  On board  
**Mouse** Microsoft IntelliMouse Mouse  COM  PS/2

The following DVD player over night under Windows 98 with their respective DVD drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

Vendor	VGA Chip	Product Description
Realmagic	Sigma Designs EM8300	DVDmagic Pro DVD card
Creative	Creative CT7235-VBQ	PC-DVD ENCORE
Formosa	Sigma Designs EM8300	DVD8300 DVD card



## 9. Software Compatibility Test Suite

### 9.1 Base Operating System

#### 9.1.1 Microsoft Windows 95/98/98 SE:

##### Test Configuration:

**CPU** AMD Athlon 800MHz  AMD  
**Memory** KingSton 64MB (TC59SM716FT-80) **Total: 128 MB**  PC66  PC100  
**HDD** Maxtor 54098U8 40GB IDE  PIO4  UDMA/66  
**Channel:**  PM  PS  SM  SS  
**VGA** Creative Geforce 256 32MB SGRAM  PCI\_Slot:\_\_\_\_.  AGP  
**Sound** VIA VT686A  ISA\_Slot:\_\_.  On board  
**CD-ROM** Pioneer DVD-114 10X IDE DVD **Channel:**  PM  PS  SM  SS  
**Mouse** Logitech TrackMan Marble Mouse  COM  PS/2

Test Item	Result	Remark
FDISK (FAT32)	PASS	
Install OS	PASS	
Format FDD	PASS	
Diskcopy	PASS	
Large file Copy	PASS	
Cool boot 2 times under every combination	PASS	
Reboot 2 times under every combination	PASS	
FIC CD-PRO all Application Install & Test	PASS	
CoreTest 92 (Transfer Rate test)	PASS	
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Install Office 2000	PASS	
Auto Shutdown (system power off)	PASS	
Defrag test	PASS	
LS-120/ZIP install & working	PASS	
VCD/DVD play (name: Mercury Rising )	PASS	
PM function by WIN98 (H/W )	PASS	
WinStone 99 (Business WS99)	PASS	
CC WinStone 2000	PASS	
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	PASS	
3D Winbench 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 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

**9.1.2 Microsoft Windows 2000:**

**Test Configuration:**

**CPU** AMD Athlon 800MHz  AMD  
**Memory** SEC 256MB (KM48S16030T-GL) **Total: 512 MB**  PC100  PC133  
**HDD** Fujitsu MPE3102AH 10.2GB IDE  PIO4  UDMA/33  UDMA/66  
**Channel:**  PM  PS  SM  SS  
**VGA** Creative TNT2 Ultra 32MB SDRAM  PCI\_Slot: \_\_\_\_  AGP  
**Sound** VIA VT686A  ISA\_Slot: \_\_  On board  
**CD-ROM** SONY CDU4811 48X IDE **Channel:**  PM  PS  SM  SS  
**Mouse** Microsoft IntelliMouse Mouse  COM  PS/2

Test Item	Result	Remark
Install Win 2000 with NTFS (boot from CD )	PASS	
Format FDD	PASS	
Cool boot 2 times under every combination	PASS	
Reboot 2 times under every combination	PASS	
Install Office 2000	PASS	
VGA Resolution/Color change	PASS	
Auto Shutdown (system power off)	PASS	
Hibernate (Suspend To Disk)	PASS	
Defrag test	PASS	
VCD/DVD play (name: Mercury Rising )	PASS	
PM function by Win2000 (H/W & Time out & Stand by)	PASS	
WinStone 99 (Business /High End WS99)	PASS	
CC WinStone 2000	PASS	



<b>WinBench 99 (BD/BG/CPU/FPU/HD/HG)</b>	<b>PASS</b>
--	-------------

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

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

**9.1.3 Microsoft Windows NT 4.0 + Service Pack:**

**Test Configuration:**

**CPU** AMD Athlon 850MHz  AMD  
**Memory** KingMAX 64MB(KSV884T4A1A-08A)Total: **128 MB** PC66  PC100  
**HDD** Quantum Fireball LB 10.2GB IDE PIO4  UDMA/66  
**Channel:**  PM PS SM SS  
**VGA** Creative TNT2 Value 32MB SDRAM PCI\_Slot:\_\_\_\_.  AGP  
**Sound** VIA VT686A ISA\_Slot:\_\_\_\_.  On board  
**CD-ROM** Creative CD4834E 48X IDE **Channel:** PM PS  SM SS  
**Mouse** Logitech Mouse+ Mouse COM  PS/2

Test Item	Result	Remark
Install Win NT with NTFS (boot from CD )	PASS	
Install Service Pack 6.0	PASS	
Format FDD	PASS	
Diskcopy	PASS	
IDE Bus Master install	PASS	
VGA Resolution/Color change	PASS	
PM function by Win NT	PASS	
WinStone 99	PASS	
CC WinStone 2000	PASS	
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	PASS	
BAPCO for Win NT 4.0 (SYSmark32)	PASS	

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

Operating System	Version	Language	Company	Status
Windows NT Workstation	4.0	English	Microsoft	Pass
	4.0	Japanese	Microsoft	Pass
	4.0	German	Microsoft	Pass
	4.0	French	Microsoft	Pass
	4.0	Chinese	Microsoft	Pass
Windows NT Workstation Service Pack	5.0	English	Microsoft	Pass
	6.0	English	Microsoft	Pass

**9.1.4 IBM OS/2 4.0:****Test Configuration:**

**CPU** AMD Athlon 700MHz  AMD  
**Memory** SIEMENS 128MB (HYB39S64800CT-8) **Total: 128 MB**  PC66  PC100  
**HDD** Fujitsu MPB3032AT 3.2GB IDE  PIO4  UDMA/33  
**Channel:**  PM  PS  SM  SS  
**VGA** S3 Trio64+  PCI\_Slot: 1  AGP  
**Sound** VIA VT686A  ISA\_Slot:      On board  
**CD-ROM** Afrey DD-4010E 10X IDE DVD **Channel:**  PM  PS  SM  SS  
**Mouse** Logitech Mouse+ Mouse  COM  PS/2

Test Item	Result	Remark
Install OS/2 (HPFS)	PASS	
Format FDD	PASS	
XCopy	PASS	
Diskcopy	PASS	
DOS Windows	PASS	
OS/2 Windows	PASS	
PM function (H/W & BIOS)	PASS	

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

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

**9.1.5 LINUX :****Test Configuration:**

**CPU** AMD Duron 700MHz  AMD  
**Memory** KingSton 256MB (0312804CT3A-75A) **Total: 512 MB**  PC100  PC133  
**HDD** Quantum Fireball CR 8.4GB IDE  PIO4  UDMA/66  
**Channel:**  PM  PS  SM  SS  
**VGA** ATI All-In-Wonder 128 16MB SDRAM  PCI\_Slot:      AGP  
**CD-ROM** Afrey DD-4008E 8X IDE DVD **Channel:**  PM  PS  SM  SS  
**Mouse** Logitech Mouse+ Mouse  COM  PS/2



The board is tested to ensure that it runs a complete a range of Operating Systems.

Operating System	Version	Language	Status
Red Hat	6.1	English	Pass
Open Linux	2.4	English	Pass

### 9.1.6 Microsoft Windows ME:

#### Test Configuration:

**CPU** AMD Athlon 1GHz  AMD  
**Memory** KingMAX 64MB(KSV884T4A1A-08A)Total: 128 MB PC66  PC100  
**HDD** Quantum Fireball LB 10.2GB IDE PIO4  UDMA/66  
**Channel:**  PM PS SM SS  
**VGA** Creative TNT2 Value 32MB SDRAM PCI\_Slot:\_\_\_\_.  AGP  
**Sound** VIA VT686A ISA\_Slot:\_\_.  On board  
**CD-ROM** Creative CD4834E 48X IDE **Channel:** PM PS  SM SS  
**Mouse** Logitech Mouse+ 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	MS Office 97 for Windows	7.0	Windows 95	English	Pass
	MS Office 2000		Windows 95/98	Chinese	Pass
		9.0.2720	Windows 95/98	English	Pass
Communication	BITWare	3.30.10	Windows 95/98	English	Pass
	WinFAX Pro for Win 95	4.0	Windows 95/98	English	Pass
	LapLink	7.0A	Windows 95	English	Pass
	Norton Anywhere	1.0	Windows	English	Pass
Database	FoxPro Microsoft	6.0	Windows	English	Pass
Graphics	Corel Draw	9.0	Windows 95	English	Pass
	MS PowerPoint	4.0	Windows	English	Pass
	Photo Shop Pro	3.05	Windows 95	English	Pass
Presentation Program	MS PowerPoint	7.0	Windows 95	English	Pass
	MS Visual Basic	4.0	Windows 95	English	Pass
	MS Visual C++	6.0	Windows 95/98	English	Pass
	Borland Delphi	4.0	Windows 95	English	Pass
Diagnostic Utility	Bapco 4.0 for Win NT	4.0	Windows NT	English	Pass
	ZD 3D Winbench 99	1.2	Windows 95/98	English	Pass
	ZD Winstone 99	1.2	Windows 95/98	English	Pass
	QAPlus	5.52	DOS	English	Pass
	AMIDdiag	6.0	DOS	English	Pass
	Landmark(Speedcom)	2.0	DOS	English	Pass
	Check IT Pro	5.01	Windows 95/98	English	Pass
CheckIt 98		Windows 95/98	English	Pass	



Tools	Norton Utility 2000		Windows 98	English	Pass
	Norton Ghost 2000	6.0	DOS,Win 9X	English	Pass
	PartitionMagic 4.0	4.0	DOS,Win 9X	English	Pass
Scan	PC-cillin 98 Plus	4.1	Windows 95/98	English	Pass
	Norton Antivirus	5.0	Windows 95/98	English	Pass
Internet	Netscape	4.6	Windows 95	English	Pass
	Internet Explore	4.0	Windows 95/98	English	Pass
		5.0	Windows 95/98	English	Pass
CD Title Game	3D Ultra 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
	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
TUROK SEED OF EV 2		Window 95/98	English	Pass
Lands of Lore III		Window 95/98	English	Pass
Poppovs		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 98	English	Pass
Black Moon Chronicles		Window 98	English	Pass
Unreal – Return to NA Pali		Window 98	English	Pass
Discworld NOIR		Window 98	English	Pass
Return to Krondor		Window 98	English	Pass
DRAKAN – Order of the Flame		Window 98	English	Pass
Outcast		Window 98	English	Pass
Age of Empires II		Window 98	English	Pass
Might and Magic VII – For Blood and Honor		Window 98	English	Pass
TOMB RAIDER 4		Window 98	English	Pass
QUAKE III – ARENA		Window 98	English	Pass
Final Fantasy VIII		Window 98	English	Pass
DELTA FORCE II		Window 98	English	Pass
FIFA 2000		Window 98	English	Pass
TRIGGER		Window 98	English	Pass



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**OS:**     *Scott Lin*    

**I/O :**     *Peter Churg*    

**Audio:**     *Brad Su*    

**Reliability:**     *Peter Churg*    

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**Logo:**     *Joy Tsai*    

**IDE Devices:**     *Scott Lin*    

**Check by:**     *Lion Liou*    

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