

FIC AZ11EA PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

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BIOS Version: *VDC45*

Supervisor	Tester

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TABLE OF CONTENTS

1. Introduction
2. Mainboard Features
3. Mainboard CPU Support
4. System Specification for Hardware and Software Utilities
 - 4.1 Main Functionality
 - 4.2 Main Software Utilities
5. Jumper Function Verification
6. Stability Test
 - 6.1 CPU Over Clock Test
 - 6.2 Full Loading Test
 - 6.3 PCB Cool Boot Test
7. Field (Stress) Test : Dynamic Burn-in Tests
8. Hardware Compatibility Test Suite
 - 8.1 **Memory**
 - 8.1.1 SDRAM DIMM Module(PC100)
 - 8.1.2 SDRAM DIMM Module(PC133)
 - 8.2 **Add-on Cards**
 - 8.2.1 Display Adapter Products
 - 8.2.1.1 2X AGP Display Adapter Products
 - 8.2.1.2 4X AGP Display Adapter Products
 - 8.2.1.3 PCI Display Adapter Products
 - 8.2.2 SCSI Adapter Products
 - 8.2.3 CNR Products
 - 8.2.4 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 DMA66
 - 8.3.2.2 IDE Ultra DMA100
 - 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
 - 8.4.2 Mouse Products
 - 8.4.3 USB Device Products
 - 8.4.4 Joystick & Game Pad
 - 8.5 **Power Supply Products**
 - 8.6 **MPEG-2 DVD Display Products**
9. Software Compatibility Test Suite
 - 9.1 **Base Operating Systems**
 - 9.1.1 Microsoft Windows 98 SE
 - 9.1.2 Microsoft Windows 2000



9.1.3 Microsoft Windows NT 4.0 + Service Pack 6

9.1.4 IBM OS/2 4.0

9.1.5 LINUX

9.1.6 Microsoft Windows ME



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 : AZ11EA PCB Rev 1.0
Product Name : VIA KT133A Based Mainboard
System BIOS : Award BIOS Version VDC45
PCI IDE : Internal PCI Mastre dual IDE
I/O : VIA VT686B

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
Duron 850MHz	100	Pass
Duron 900MHz	100	Pass
Duron 950MHz	100	Pass
Athlon 700MHz	100	Pass
Athlon 800MHz	100	Pass
Athlon 850MHz	100	Pass
Athlon 900MHz	100	Pass
Athlon 950MHz	100	Pass
Athlon 1GHz	100/133	Pass
Athlon 1.1GHz	100	Pass
Athlon 1.133GHz	133	Pass
Athlon 1.2GHz	100/133	Pass
Athlon 1.3GHz	100/133	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 KT133A (VT8363A_I+686B_B)
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 and 1CNr slot
Audio	OnChip VIA VT686B AC'97 Audio on board



IO Corelogic	VIA VT686B Support Normal,EPP,ECP mode and IR interface
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4.1 Main Functionality :

Num.	M/B function	Result
1	ACPI Ready (under Win 98 SE/ME/2000)	PASS
2	APM 1.2	PASS
3	RTC Alarm Function	PASS
4	Logo Genie	PASS
5	BIOS Easy Kit	PASS
6	Audio Alert I/II	PASS
7	BIOS Flash Protect (Guardian feature)	PASS
8	Ultra DMA33/66/100 Enhanced IDE Interface	PASS
9	CNR Function	PASS
10	USB Function	PASS
11	Year 2000 Compliance	PASS

4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	VIA IDE Bus Master for Win 98	2.1.49	PASS
2	VIA IDE Bus Master for Win NT	2.1.49	PASS
3	VIA AGP VxD Utilities for Win 95/98	4.05	PASS
4	VIA INF Driver	1.02	PASS
5	VIA IRQ Routing Table	1.30	PASS
6	Onboard VIA VT686B Audio driver for Win 9x	1.20A	PASS
7	Onboard VIA VT686B Audio driver for Win ME	1.20A	PASS
8	Onboard VIA VT686B Audio driver for Win 2000	1.20A	PASS
9	Onboard VIA VT686B Audio driver for Win NT	1.20A	PASS
10	Award BIOS Flash ROM Utilities	7.97	PASS

5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPK	Open	Pass
Power LED	PWR_LED	Open	Pass
IDE HDD LED Connector	HDD_LED	Open	Pass
Reset Button	RST	Open	Pass
Remote Power Switch	PWR_BTN	Open	Pass
Sleep LED	SLP_LED	Open	Pass
Sleep Button	SP_SW	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
Auto Detect Freq. Ratio Setting	ODR_EN	1-2	Pass
Bus Ratio Setting	ODR_EN	on-on-off-on	Pass



Auto Detect Core Voltage Setting	ODV_EN	1-2	Pass
CPU Core Voltage Setting	ODV_EN	On-off-off-off	Pass

6. Stability Test

6.1 CPU Over Clock Test: (1days)

System Configuration	
CPU : AMD Athlon 950	FDD : NEC FD1231T 1.44MB
Cache Memory : 256 K	Audio : Onboard 686B AC'97 Audio
Memory : SDRAM 192MB (64MB x3)	Mouse : Microsoft PS/2 mouse
HDD (ATA/66) : Seagate ST-328040A 28.5GB	PowerSupply : TELTA Hi-300PB 300W ATX
VGA : Diamond Viper V330 2X AGP	O.S. Environment: Windows 98 SE
DVD-ROM : Toshiba SD-M1202 4.8X	

NO.	Over clock level		Test Result				
	FSB	CPU ID	Cool boot	Install OS	PM	Winstone 99	3D Mark2000
1	102MHz	970MHz	Pass	Pass	Pass	Pass	Pass
2	103MHz	980MHz	Pass	Pass	Pass	Pass	Pass

6.2 Full Loading Test: (1days)

System Configuration	
CPU : AMD Athlon 1GHz(FSB 133)	PCI 1 : 3Com 3C905B LAN card
Cache Memory : 256 K	PCI 2 : Accton En1207D LAN card
Memory : SDRAM 384MB (128MB x 3)	PCI 3 : AHA-2940UW SCSI card
HDD 1 : Seagate ST-328040A 28.5GB	PCI 4 : Tekrem DC-390F SCSI card
HDD2 : Quantum Fireball lct 8.4GB	PCI 5 : Initio INI-9100UW SCSI card
DVD-ROM1 : Creative DVD8400E 8X	Mouse : Microsoft PS/2 mouse
DVD-ROM2 : Toshiba SD-M1202 4.8X	PowerSupply : Telta HI-300PB 300W ATX
VGA : Diamond Viper V330 2X AGP	O.S. Environment: Windows 2000
FDD : NEC FD1231T 1.44MB	

Test Result						
Cool boot	BIOS detect	Install OS	All devices Driver install	PM	Winstone 99	3D Winbench 99
Pass	Pass	Pass	Pass	Pass	Pass	Pass

6.3 PCB Cool Boot Test:

System Configuration	
CPU : AMD Athlon 1GHz (FSB 133)	FDD : NEC FD1231T 1.44MB
Cache Memory : 256 K	PowerSupply : HOPELY ATX-250S 250W ATX
Memory : SDRAM 256MB (128MB x 2)	
VGA : 3dfx Voodoo3 3000 AGP	



Test Result	
Cool Boot (over 1500 times)	Pass

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

Software Name	Duration	Result
CC Winstone 2001 Under WIN ME	24hr.	<i>Pass</i>
Test Configurations for Win ME	AMD Athlon 1.1GHz Maxtor 92049U4 Ultra DMA66 20.4GB HDD KingSton 256MB SDRAM Memory.(IBM) x 2 Matrox Millennium G400 MAX AGP VGA	
Winstone 2001 Under WIN2000	24hr.	<i>Pass</i>
Test Configurations for Win 2000	AMD Duron 850MHz Quantum Fireball LC Ultra DMA66 20GB HDD SIEMENS 320MB SDRAM Memory.(128x2+64x1). ASUS AGP-V7100 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 2000 Ver: 5.00.2195 .
 CPU AMD Athlon 1.33GHz (Bus clock 133MHz) AMD
 HDD Seagate ST330631A 30.6GB IDE UDMA/66 UDMA/100
 Channel: PM PS SM SS
 VGA ELSA GLADIAC 64MB SDRAM PCI_Slot:____. AGP 2X
 CD-ROM Pioneer DVD-114 10X IDE DVD Channel: PM PS SM SS
 Sound VIA VT686B ISA_Slot:____. On board
 Mouse Microsoft IntelliMouse PS/2 Mouse COM PS/2

The following SDRAM module install Windows ME/2000 and run CC Winstone 2001/copy large files 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 (Hyundai)
	AM2V648C2T75	No	128MB	D	71.73350.034
Buffalo	GM72V66841ET7K	No	64MB	S	VS133-64MB (Hyundai)
	W981208ah-75	No	128MB	S	VS133-128M (Winbond)
	GM72V66841ET7K	No	128MB	D	VS133-128M (Hyundai)
	K4S6408320-TC1H	No	128MB	D	VS133-128M (SEC)
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
	KSV884T4A1A-06	No	128MB	D	MPGA83S-883
Hitachi	5264805FTT75	No	64MB	S	VS133-64M
	5264805FTT75	No	128MB	D	VS133-128M
PQI	PQ3S644S75	No	512MB	D	MS3812UPS

8.2 Add-on Cards

8.2.1 Display Adapter Products

Test Configuration:

OS Ver Win ME Ver: 4.90.3000 .
CPU AMD Athlon 1.2GHz(FSB 133MHz) AMD
Memory Apacer 128MB (HYB39S64800BT-7.5) Total: 256 MB PC66 PC133
HDD Maxtor 53073H6 30.6GB UDMA/66 UDMA/100
Channel: PM PS SM SS
CD-ROM Pioneer DVD-114 10X IDE DVD **Channel:** PM PS SM SS
Sound VIA VT686B **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 ME 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	4.12.2632
	Rage pro Turbo	XPERT 98	4.12.2632
	Rage 128GL	Rage Fury	4.12.6281
	Rage 128GL	All-In-Wonder 128	4.12.6281
	Rage 128GL	XPERT 128	4.12.6281
	Rage 128VR	XPERT 2000	4.12.6281
	Rage XL	Rage XL	4.12.2632
	Rage 128 Pro	Rage Fury MAXX	4.12.7942
ASUS	Riva 128ZX	AGP-V3000ZXTV	4.10.01.0250
	Riva TNT	AGP-V3400TNT	4.12.01.0618
	Riva TNT2 Pro	AGP-V3800 Pro	4.12.01.0618
	Riva GeForce 256	AGP-V6600	4.12.01.0618
	GeForce2 MX	AGP-V7100	4.12.01.0618
	Riva GeForce2 GTS	AGP-V7700	4.12.01.0618
Matrox	MGA-G200	Millennium G200	4.12.01.2640
	MGA-G200A	Millennium G200 LE	4.12.01.2640
	MGA-G400	Millennium G400 DH	4.12.01.1640
Leadtek	Riva TNT2 Ultra	Winfast 3D S320 II Ultra	4.11.01.0240
	SiS 300	Winfast VR300	4.12.01.1030
	SiS 6326 DVD	Winfast 3D S700	4.10.01.0905
Creative	Riva TNT2 Ultra	3D Blaster Riva TNT2 Ultra	4.12.01.2303



	Riva TNT2 M64	Riva TNT2 Value	4.12.01.0650
Diamond	Riva 128	Viper V330	4.10.01.0279
Top Solution	SiS 300 + 301	VR300DH	4.12.01.1040
Cardex	S3 Savage 2000	Cardexpert Savage 2000	4.12.01.9008
3D labs	Glint R3	Oxygen VX1	4.12.01.2107
Cardex	Riva TNT2 Vanta	Cardexpert TNT2 Vanta	4.12.01.0618
	GeForce2 MX	GeForce2 MX	4.12.01.0618
	3D Labs Permedia 3	Cardexpert P3	4.12.01.2107
ELSA	3Dlabs Permedia II	Gloria Synergy	4.11.01.0203
	Riva TNT	ERAZOR II	4.12.01.0206
	3Dfx Voodoo Banshee	Victory II	4.11.01.0300
3dfx	Voodoo 3 2000	Voodoo 3 2000	4.12.01.1225
	Voodoo 3 3000	Voodoo 3 3000	4.12.01.1225
	Voodoo 3 3500	Voodoo 3 3500 TV	4.12.01.1225
	Voodoo 5 5500	Voodoo 3 5500	4.12.01.0584

8.2.1.2 4X AGP Display Adapter Products

Vendor	Model Name	Product Description	Driver version
Diamond	Riva TNT2 Ultra	Viper V770 Ultra	4.12.01.0368
	S3 Savage 2000	Viper II	4.12.01.9007
Matrox	MGA-G400	Millennium G400 SH	4.12.01.1800
	MGA-G400	Millennium G400 MAX	4.12.01.1800
	MGA-G450	Millennium G450	4.12.01.1800
ATI	Rage 128 Pro	Rage Fury Pro	4.12.6281
	Rage 128 Pro	XPERT 2000 Pro	4.13.7078
	Rage 128 Pro	All-In-Wonder 128 Pro	4.12.6281
	Radeon	Radeon	4.13.7072
Leadtek	Riva TNT2 M64	WinFast 3D S325	4.11.01.0240
	Riva GeForce 256	Winfast GeForce256	4.12.01.0522
	GeForce2 GTS	Winfast GeForce 2 GTS	4.12.01.0522
	GeForce2 MX	Winfast GeForce2 MX	4.12.01.0648
	Riva TNT2 Pro	WinFast 3D S320 II Pro	4.11.01.0240
Creative	Savage 4	3D Blaster Savage 4	4.11.01.2104
	Riva Geforce 256	3D Blaster GeForce256	4.12.01.2303
	Riva Geforce 256	3D Blaster GeForce Pro	4.12.01.2303
	GeForce2 GTS	3D Blaster Geforce2 GTS	4.12.01.2303
ASUS	GeForce256 DDR	AGP-V6800	4.12.01.0631
	GeForce2 GTS	AGP-V7700 Deluxe	4.12.01.0631
Hercules	Riva GeForce 256	3D Prophet DDR-DVI	4.12.01.0522
ELSA	Riva TNT2	ERAZOR III	4.12.01.0667
	Riva TNT2	Synergy II	4.12.01.0204
	Savage 4	Winner II	4.11.01.0310
	Riva TNT2 M64	ERAZOR III LT	4.12.01.0204
	Riva TNT2 Vanta	ERAZOR III LT-16	4.12.01.0667
	Riva Geforce2 GTS	GLADIAC	4.12.01.0204



Riva TNT2 Pro	ERAZOR III Pro	4.12.01.0756
Riva GeForce 256	ERAZOR X	4.12.01.0204
Riva GeForce 256 DDR	ERAZOR X ²	4.12.01.0756
GeForce2 MX	GLADIAC MX	4.12.01.0667
GeForce2 Ultra	GLADIAC Ultra	4.12.01.0756

8.2.1.3 PCI Display Adapter Products

Vendor	VGA Chip	Product Description
Matrox	MGA-1064SG	Mystique 4MB SGRAM
ELSA	S3 Virge/VX	Winner 3000L 3D
Cardex	S3 Virge/DX	
ATI	ATI Rage II	ATI Rage II 3D
Diamand	S3 964	Stealth 64 Video
ATI	ATI Mach64	ATI Mach64 VT
Creative	S3 Savage 4	3D Blaster Savage 4
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 .
 Win NT 4.0 + SP6
 Win 2000 Ver: 5.00.2195 .
CPU AMD Athlon 950MHz AMD
Memory Hyundai 128MB (HY57V658020B-10P) Total: 256 MB PC66 PC100
VGA Diamond Viper V330 AGP VGA PCL_Slot: AGP
HDD Seagate ST-318404LW 18GB Ultra SCSI Ultra Wide
CD-ROM Plextor PX-40Tsi 40X SCSI Ultra SCSI Ultra Wide
Sound VIA VT686B ISA_Slot: On board
Mouse Logitech MouseMan Mouse COM PS/2

The following PCI SCSI cards run Winstone 99 under Windows 98 SE/NT/2000 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
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Adaptec	AHA-2940UW	Adaptec AHA-2940UW PCI SCSI card	PCI
	AHA-2940U2W	Adaptec AHA-2940U2W PCI SCSI card	PCI
	ASC-19160	Adaptec Ultra 160 PCI SCSI card 19160	PCI
	ASC-29160	Adaptec Ultra 160 PCI SCSI card 29160	PCI
	ASC-29160N	Adaptec Ultra 160 PCI SCSI card 29160	PCI
	ASC-39160	Adaptec Ultra 160 PCI SCSI card 39160	PCI
Tekram	DC-390U2W	Tekram DC-390U2W PCI SCSI	PCI

8.2.3 CNR Products

Test Configuration:

OS Ver Win 98 SE Ver: 4.10.222A
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
Channel: PM PS SM SS
CD-ROM Acer 650P 50X IDE **Channel:** PM PS SM SS
Sound VIA VT686B ISA_Slot: __. Onboard
Mouse Logitech MouseMan Mouse COM PS/2

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

Vendor	Product Description	Codec
Castle Net	56KV.90 Modem Riser Card (MC810)	Smartlink
TAICOM	56KV.90 Modem Riser Card (MC810)	Smartlink

8.2.4 FAX / Modem Products

Test Configuration:

OS Ver Win 98 SE Ver: 4.10.2222A .
CPU AMD Athlon 850MHz AMD
Memory Buffalo 128MB(KM48S8030BT-GH) Total: 256 MB PC66 PC100
VGA Voodoo3 3000 32MB SDRAM PCI_Slot: __. AGP
HDD Maxtor 91021U2 10.2GB UDMA/66 UDMA/100
Channel: PM PS SM SS
CD-ROM TEAC CD-532EA 32X IDE **Channel:** PM PS SM SS



Sound VIA VT686B

ISA_Slot: Onboard

Mouse Logitech MouseMan Mouse

COM PS/2

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

Vendor	Product Description	Bus I/F
GVC	56K FLEX ASVD	External
Motorola	VoiceSURFR 56K	External
Diamond	Supra MAX 56K ITU & flex	Internal/PCI
CIS	PSL 56K data/Fax/RTAP	Internal/PCI
HSP	V1456VQH-P1 56Kbps PCI	Internal/PCI
GVC	F-1156IV/R2 KB3497	Internal/PCI
Turbo	Motorola SM56 Voice PCI	Internal/PCI
Askey	1456VQH75	Internal/PCI
Archtek	A12PW19085A 56Kbps	Internal/PCI

8.3 Storage

8.3.1 SCSI Peripheral Products

Test Configuration:

OS Ver Win ME Ver: 4.90.3000 . Win NT Ver: 4.0 + SP6CPU AMD Athlon 950MHz AMDMemory Hyundia 128MB (HY57V658020B-10P)Total: 256 MB PC66 PC100VGA ATI XPERT 128 16MB SDRAM ISA_Slot: AGPSCSI AHA-2940U2W Ultra2 Wide SCSI ISA PCI_Solt: 2 .Mouse Logitech First Mouse+ Mouse COM PS/2

The following SCSI devices test WinStone 99 under Windows ME/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-34573LW	Barracuda 9LP Ultra2 4.5GB
		ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST39204LW	Cheetah Ultra160 Wide 9GB
		ST-318404LW	Cheetah Ultra160 Wide 18GB
		ST-34502LW	Cheetah 9LP Ultra2 Wide 4.5GB
CD-ROM	Plextor	DMVS IEC-950	Ultra2 Wide SCSI HDD 9.1GB
		DMVS IEC-950	Ultra2 Wide SCSI HDD 36GB
CD-RW	NEC	CDR-1910	Ultra SCSI CD-ROM 32X



	SONY	CDU-625	SCSI-II CD-ROM 24X
	TEAC	CD-523S	Ultra SCSI CD-ROM 32X
		CDR 56S	Ultra SCSI CD-RW (24R6W)
	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 ME Ver: 4.90.3000
CPU AMD Athlon 1.3GHz(FSB 100MHz) AMD
Memory SEC 256MB (KM48S16030T-GL) **Total: 512 MB** PC66 PC100
CD-ROM Mitsumi CRMC-FX4820T 48X **Channel:** PM PS SM SS
VGA Creative TNT2 Value 32MB SDRAM PCI_Slot: ___. AGP
Sound VIA VT686B ISA_Slot: __. On board
Mouse Logitech First Mouse+ Mouse COM PS/2

The following IDE devices test Winbench 99 and WinStone 99 under Windows ME 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/66

Vendor	Model Name	Mode	Capacity
WD	AC310200	Ultra DMA 66	10.2GB
	AC313000	Ultra DMA 66	13GB
Seagate	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 KA	Ultra DMA 66	13.6GB



	Fireball LB	Ultra DMA 66	10.2GB
	Fireball lct LC	Ultra DMA 66	15GB
	Fireball lct LC	Ultra DMA 66	20GB
	Fireball Plus LM	Ultra DMA 66	20.5GB
	Fireball LM	Ultra DMA 66	30GB
IBM	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
	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

8.3.2.2 IDE Ultra DMA/100

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
Maxtor	51536H2	Ultra ATA 100	15.3GB
	52049H4	Ultra ATA 100	20.4GB
	53073H6	Ultra ATA 100	30.6GB
	54098H8	Ultra ATA 100	40.9GB
Seagate	Barracuda ST330631A	Ultra ATA 100	30.6GB
WD	Caviar WD300	Ultra ATA 100	30GB

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 AMD Duron 900MHz AMD

Panasonic	CR-587-D	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-8584-B	ATAPI DVD-ROM 6.0X
	SR-8585-B	ATAPI DVD-ROM 8.0X
Hitachi	GD-2500	ATAPI DVD-ROM 6X
Acer	DVP1640A	ATAPI DVD-ROM 16X
Sony	DDU220E	ATAPI DVD-ROM 5X
Toshiba	SD-M1202	ATAPI DVD-ROM 4.8X
Pioneer	DVD-114	ATAPI DVD-ROM 10X
	DVD-115	ATAPI DVD-ROM 16X
	DVD-105S	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 850MHz AMD
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 VT686B 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 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 (Including IR)

Test Configuration:

OS Ver Win 98 SE Ver: 4.10.2222A .
 CPU AMD Athlon 1GHz(FSB 133MHz) AMD
 Memory KingSton 128MB(TC59SM708FT-75) Total: 256 MB PC100 PC133
 HDD Maxtor 94098U8 40.9GB IDE PIO4 UDMA/66
 Channel: PM PS SM SS
 CD-ROM Creative DVD1242E 12X IDE DVD Channel: PM PS SM SS
 VGA Creative Geforce 256 SDRAM PCI_Slot: . AGP
 Sound VIA VT686B 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/IR
EPSON	Stylus Color 900	LPT
Mustek	Mustek 1200CP Scanner	LPT
iomega	Parallel ZIP 250	LPT
Kodak	DC210 InfraRed/Serial port Digital camera	COM/IR
USR	Sportster 56K Faxmodem Modem	COM
ACTisys	ACT-IR210L	IR
	ACT-IR220L	COM(IR)

8.4.2 Mouse Products

Test Configuration:

OS Ver Win 98 SE Ver: 4.10.2222A .
 CPU AMD Athlon 1GHz(FSB 133MHz) AMD



Memory Transcend 128MB(K4S640832D-TC75) **Total: 384 MB** PC100 PC133
HDD Fujitsu MPG3307AT 30.7GB IDE UDMA/66 UDMA/100
CD-ROM ASUS DVD-E612 12X IDE DVD **Channel:** PM PS SM SS
VGA Leadtek Geforce2 MX **Channel:** PM PS SM SS
Sound VIA VT686B **PCI_Slot:** ____. AGP
Mouse Logitech TrackMan Marble Mouse **ISA_Slot:** __. On board
COM PS/2

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

Vendor	Product Description	Bus I/F
Microsoft	IntelliMouse Serial Mouse	Serial/ PS2
	IntelliMouse USB/PS2 Mouse (w IntelliEye)	USB/PS2
	IntelliMouse USB/PS2 Mouse (Optical)	USB/PS2
	IntelliMouse explorer USB/PS2 Mouse	USB/PS2
Logitech	Logitech MouseMan Serial Mouse	Serial/ PS2
	Logitech First Mouse+ Serial Mouse	Serial/ PS2
	Logitech TrackMan Marble Serial Mouse	Serial/ PS2
	Logitech Wheel Mouse (Optical)	USB/PS2
Genius	NetMouse	PS2
	NetScroll Optical	PS2
Samsung	Cyber Beetle Mouse (Optical)	PS2

8.4.3 USB Device Products

Test Configuration:

OS Ver Win ME Ver: 4.90.3000 .
CPU AMD Athlon 1GHz(FSB 133MHz) AMD
Memory KingSton 128MB(TC59SM708FT-75) **Total: 128 MB** PC100 PC133
HDD Quantum Fireball LC 20GB IDE PIO4 UDMA/66
CD-ROM Creative DVD1242E 12X IDE DVD **Channel:** PM PS SM SS
VGA ATI Rage 128 Pro **Channel:** PM PS SM SS
Sound VIA VT686B **PCI_Slot:** ____. AGP
Mouse Logitech TrackMan Marble Mouse **ISA_Slot:** __. On board
COM PS/2

The following USB devices be tested under Windows ME with Win ME 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
	IBM	XVP610
	AXIS	PCAM-QU
Keyboard	BTC	8113W
	Jetime	ACK-298H
	Microsoft	Natural Keyboard Pro
Printer	EPSON	Stylus Color 740
		Stylus Color 900
Ethernet	CATC	USB to Lan 10BASE-T
ZIP	iomega	ZIP 250
CD-RW	SONY	Spreda CD-ReWritable Recorder
Scanner	HP	ScanJet 4200C
	EPSON	GT-7000
GamePad	Creative	Cobra USB GamePad
	Logitech	WingMan Extreme USB GamePad
Joystick	Genius	Flight2000 F-22X
	Logitech	WingMan Formula Force joystick
	Thrustmaster	TOP Gun

8.4.4 Joystick & Game Pad

Test Configuration:

OS Ver Win 98 SE Ver: 4.10.2222A .
 CPU AMD Athlon 1GHz(FSB 133MHz) AMD
 Memory Transcend 128MB(K4S640832D-TC75) Total: 384 MB PC100 PC133
 HDD Fujitsu MPG3307AT 30.7GB IDE UDMA/66 UDMA/100
 Channel: PM PS SM SS
 CD-ROM ASUS DVD-E612 12X IDE DVD Channel: PM PS SM SS
 VGA Leadtek Geforce2 MX PCI_Slot: ____, AGP
 Sound VIA VT686B ISA_Slot: ____, On board
 Mouse Logitech TrackMan Marble Mouse COM PS/2

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

Type	Vendor	Product Description
GamePad	Logitech	ThunderPad Digital
Joystick	Logitech	Wing Man Extreme digital joystick



		CyberMan2 Digital Game Controller
	Microsoft	SideWinder force feedback pro joystick

8.5 Power Supply Products

Test Configuration:

OS Ver Win ME Ver: 4.90.3000 .
CPU AMD Duron 800MHz AMD
Memory KingMax 128MB(KSV884T4A1A-08A) **Total: 256 MB** PC66 PC100
HDD IBM DTLA-305020 20.5GB IDE UDMA/66 UDMA/100
Channel: PM PS SM SS
CD-ROM Pioneer DVD-105S 16X IDE DVD **Channel:** PM PS SM SS
VGA Diamond Viper V770 32MB SDRAM PCI_Slot: ____. AGP
Sound VIA VT686B ISA_Slot: __. On board
Mouse Logitech TrackMan Marble Mouse COM PS/2

The following Power supply devices test Cool/Warm boot, restart and power management under Windows 98 SE with over 10 times.

Vendor	Product Description	Power	Type
DELTA	DPS-300KB A Rev:00	300W	ATX
HIPRO	HP-250NLXAK Rev:01	250W	NLX
	HP-250NLXAA	250W	NLX
	HP-300SN Rev:02	300W	ATX
Seventeam	ST-250GL	250W	ATX
	ST-301HR	300W	ATX
	ST-400GL	400W	ATX
Enlight	ATX-725B	250W	ATX
	ATX-730	300W	ATX
	HPC-250G2 Rev:A0-01	250W	ATX
TELTA	HI-250PB	250W	ATX
	HI-300PB	300W	ATX
AOpen	FSP300-60GT	300W	ATX
FSP	FSP250-61GN(AMD)	250W	ATX
ACHME	AM607BS-250W	250W	ATX
HOPELY	ATX-250S	250W	ATX

8.6 MPEG-2 DVD Display Products

Test Configuration:

OS Ver Win 98 SE Ver: 4.10.2222A .
CPU AMD Duron 750MHz 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 VT686B 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 98 SE:

Test Configuration:

CPU AMD Athlon 1.2GHz(FSB 133MHz) AMD
Memory Buffalo 128MB(GM72V66841ET7K) **Total: 256 MB** PC100 PC133
HDD Fujitsu MPG3307AT 30.7GB IDE UDMA/66 UDMA/100
Channel: PM PS SM SS
VGA ASUS AGP-V7700 Deluxe PCI_Slot: ____ . AGP
Sound VIA VT686B ISA_Slot: ____ . On board
CD-ROM ASUS DD-E612 12X IDE DVD **Channel:** PM PS SM SS
Mouse Logitech TrackMan Marble Mouse COM PS/2



Test Item	Result	Remark
FDISK (FAT32)	PASS	
Install Win OS	PASS	
Format FDD	PASS	
Diskcopy	PASS	
Large file Copy (one file over 500MB)	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	
VCD play (name: <i>Runaway Bride</i>)	PASS	
Power Management	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
System Shutdown	Power button (Setting from PM)	PASS
	Start → Shut down item	PASS
WinStone 2001	PASS	38.6
CC WinStone 2001	PASS	48.7
WinBench 99 (BD/BG/HD/HG)	PASS	
3D Mark2000	PASS	7202

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 98 SE	4.10.2222A	English	Microsoft	Pass

9.1.2 Microsoft Windows 2000:

Test Configuration:

CPU AMD Athlon 1.2GHz(FSB 133MHz) AMD
Memory Buffalo 128MB(K4S6408320-TC1H)Total: 256 MB PC100 PC133
HDD IBM DTLA-307060 60GB IDE PIO4 UDMA/66 UDMA/100
Channel: PM PS SM SS
VGA ATI Radeon Onboard AGP 4X
Sound VIA VT686B ISA_Slot: __. On board
CD-ROM Creative DVD1242E 12X IDE DVD **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	
Install OS	PASS	
Format FDD	PASS	
FIC CD-PRO all M/B drivers Install & Test	PASS	
FIC CD-PRO all Application Install & Test	PASS	
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Large file Copy (one file Over 500MB)	PASS	
Install Office 2000	PASS	
VCD/DVD play (name: <i>Runaway Bride</i>)	PASS	
Power Management (Stand By function)	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
Hibernate (Suspend To Disk)	Power button	PASS
	Start → Hibernate item	PASS
	Time Out	PASS
System Shutdown	Power button	PASS
	Start → Shut down item	PASS
WinStone 2001	PASS	46.3
CC WinStone 2001	PASS	58.2
3D Mark2000	PASS	4622
WinBench 99 (BD/BG/HD/HG)	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

9.1.3 Microsoft Windows NT 4.0 + Service Pack 6:

Test Configuration:

CPU AMD Athlon 1.2GHz(FSB 133MHz) AMD
 Memory KingMax 128MB(KSV884T4A1A-06) Total: 256 MB PC100 PC133
 HDD IBM DTLA-307045 46.1GB IDE PIO4 UDMA/66 UDMA/100
 Channel: PM PS SM SS
 VGA Matrox Millennium G450 Onboard AGP 4X
 Sound VIA VT686B ISA_Slot: . On board
 CD-ROM Panasonic SR-8585B 8X IDE DVD Channel: PM PS SM SS



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

9.1.5 LINUX:

Test Configuration:

CPU AMD Athlon 950MHz AMD
 Memory Hyundai 128MB (HY57V658020B-10P)Total: 256 MB PC66 PC100
 HDD Maxtor 91360U4 13.6GB IDE PIO4 UDMA/66
 Channel: PM PS SM SS
 VGA Diamond Viper V330 16MB SDRAM PCI_Slot:____. AGP
 CD-ROM Creative DVD8400E 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
Open Linux	2.4	English	Pass

9.1.6 Microsoft Windows ME:

Test Configuration:

CPU AMD Athlon 1.2GHz(FSB 133MHz) AMD
 Memory SIEMENS 512MB(HYB39S256800T-7.5)Total: 512 MB PC100 PC133
 HDD Maxtor 54098H8 40.9GB IDE PIO4 UDMA/66 UDMA/100
 Channel: PM PS SM SS
 VGA ELSA GLADIAC MX Onboard AGP 4X



Sound VIA VT686B

ISA_Slot: On board

CD-ROM Pioneer DVD-105S 16X IDE DVD

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	
VCD/DVD play (name: <i>Runaway Bride</i>)	PASS	
Power Management (Stand By function)	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
Hibernate (Suspend To Disk)	Power button	PASS
	Start → Hibernate item	PASS
	Time Out	PASS
System Shutdown	Power button	PASS
	Start → Shut down item	PASS
IE 5.5 (Install LAN card to connect to Internet)	PASS	
System Restore	PASS	
WinStone 2001	PASS	45.9
CC WinStone 2001	PASS	51.6
WinBench 99 (BD/BG/HD/HG)	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

Test Engineer:

BIOS: Benson ShenOS: Scott LinI/O : Kun TaiAudio: Brad Su



CPU/Memory: *Lion Liou*

VGA: *Leon Liang*

Logo: *Joy Tsai*

IDE Devices: *Scott Lin*

Check by: *Lion Liou*

Ownership: *Benson Shen*