

**FIC KT-400A PRO SYSTEM BOARD  
BOARD LEVEL COMPATIBILITY TEST REPORT**

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<b>Supervisor</b>	<b>Tester</b>



### Revision History

Document Release	Date	Change Item	ECN
Revision 1.00	7/07/2003	Initial Release.	



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## 1. Introduction

FIC's motherboards undergo a comprehensive suite of stringent software and hardware compatibility tests to ensure that they can not only run a complete range of operating systems and software packages, but that they can also be installed with a full selection of add-on cards and peripheral devices, such as 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** : KT-400A PRO/AN19 PCB Rev 2.1  
**Product Name** : VIA KT-400A Based Mainboard  
**System BIOS** : Award BIOS Version VME41  
**PCI IDE** : Internal PCI Mastre dual IDE  
**LPC** : ITE IT8705F

## 3. Mainboard CPU Supports:

AMD Processors	FSB
Duron 900MHz	200
Duron 950MHz	200
Duron 1.0GHz (Morgan)	200
Duron 1.1GHz (Morgan)	200
Duron 1.2GHz (Morgan)	200
Duron 1.3GHz (Morgan)	200
Athlon 900MHz	200
Athlon 950MHz	200
Athlon 1GHz	200/266
Athlon 1.1GHz	200
Athlon 1.133GHz	266
Athlon 1.2GHz	200/266
Athlon 1.3GHz	200
Athlon 1.333GHz	266
Athlon 1.4GHz	200/266
Athlon XP 1500+ (Palomino/1333)	266
Athlon XP 1600+ (Palomino & Thoroughbred /1400)	266
Athlon XP 1700+ (Palomino & Thoroughbred /1467)	266
Athlon XP 1800+ (Palomino & Thoroughbred /1533)	266
Athlon XP 1900+ (Palomino & Thoroughbred /1600)	266
Athlon XP 2000+ (Palomino & Thoroughbred /1667)	266
Athlon XP 2100+ (Palomino & Thoroughbred /1733)	266
Athlon XP 2200+ (Thoroughbred /1800)	266
Athlon XP 2400+ (Thoroughbred /2000)	266
Athlon XP 2500+ (Barton /1830)	333
Athlon XP 2600+ (Thoroughbred /2133)	266
Athlon XP 2700+ (Thoroughbred /2166)	333
Athlon XP 2800+ (Barton /2083)	333
Athlon XP 3000+ (Barton /2167)	333

- Socket A Fan-Sink : Please refer to AMD's Web side recommendation.



## 4. System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	VIA KT-400A + VT8235CE
System Cache	128/256/512K Pipeline Burst SRAM Built-in CPU
System Memory	DDR266/333/400 (PC2100/2700/3200) Support
	Maximum : 3GB DDR DRAM
	3 DIMM slots for 184 pins DDR SDRAM Module
System Slots	1 AGP ,5 PCI slots
Audio	Realtek ALC650 AC'97 Audio codec
LAN	VIA VT8235CE Ethernet MAC with VIA VT6103L(PHY) 10/100Mbps LAN
IEEE 1394 (Option)	VIA VT6307L IEEE1394 controller Onboard
LPC (I/O)	ITE IT8705F Support Normal,EPP,ECP mode and IR interface

### 4.1 Main Functionality :

Num.	M/B function
1	ACPI Ready (support S0/S1/S3/S4/S5)
2	SMART FAN Control
3	NOVUS II
	LogoGenie (for Win 98 SE/ME only) BIOS Easy Kit
4	AGP 2.0/3.0 SPEC (AGP 4X/8X) support
5	Ultra ATA-33/66/100/133 Enhanced IDE Interface
6	Onboard Realtek ALC650 AC'97 Audio support 2/5.1 Channel
7	Onboard VIA VT8235CE MAC with VT6103L(PHY) 10/100Mbps LAN
8	Onboard VIA VT6307L IEEE 1394
9	USB 1.1/2.0 Function (Front/Rear)
10	Power Failure feature
11	BIOS Flash Protect feature
12	RTC Alarm Function

### 4.2 Main Software Utilities :

Num.	M/B function	Version
1	VIA 4 in 1 Chipset Driver	4.47
2	Realtek ALC650 AC'97 Audio driver	5.10.5250
3	VIA VT6103 (PHY) 10/100Mbps LAN driver	3.3
4	Award BIOS Flash ROM Utilities	8.24c



## 5. Jumper Function Verification

Description	Jumper Name	Default Option	
Speaker Connector	SPK	Open	
Power LED (Single color)	PW_LED	Open	
Power LED (Dual color)		Open	
IDE LED Connector	F_PNL	Open	
Reset Switch		Open	
Remote Power Switch		Open	
CPU FAN Connector		CPU_FAN	Open
Chassis FAN Connector		SYS_FAN	Open
Clear CMOS	CLR_CMOS	1-2	
IR interface	IR	Open	
Front Audio Connector	F_AUDIO (Intel SPEC)	Open	
Front USB Connector 4/5	USB 4/5 (Intel SPEC)	Open	
CD_IN Connector (RGGL)	CD_IN	Open	
AUX_IN Connector (RGGL)	AUX_IN	Open	
Sony Philips Digital Interface	SPDIFOUT	Open	
BIOS Flash Protect	ANTI_REFLASH	Open	
IEEE 1394 connector	1394_1,1394_2	Open	



## 6. Stability Test

### 6.1 CPU Over Clock Test:

System Configuration	
<b>CPU</b> : AMD Athlon XP 2200+ (FSB266)	<b>FDD</b> : TEAC FD-235HG 1.44MB
<b>Cache Memory</b> : 256KB	<b>Audio</b> : Onboard Realtek ALC650 AC'97
<b>Memory</b> : Elixir DDR266 256MB X 2	<b>LAN</b> : Onboard VIA VT6103L (PHY)
<b>HDD (ATA/100)</b> : Maxtor 5T060H6 61GB	<b>Mouse</b> : Microsoft PS/2 mouse
<b>VGA</b> : ELSA GLADIAC 721 VGA	<b>PowerSupply</b> : Seventeam ST-350GL ATX 350W
<b>DVD-ROM</b> : NEC DV-5800A 16X DVD	<b>O.S. Environment:</b> Windows XP/Home Edition

NO.	Over clock level		Test Result				
	FSB	CPU speed	Cold boot	Install OS	S3/S4	Winstone 2001	3D Mark2001
1	274MHz	1850MHz	Pass	Pass	Pass	Pass	Pass
2	280MHz	1890MHz	Pass	Pass	Pass	Pass	Pass

### 6.2 Full Loading Test: (1days)

System Configuration	
<b>CPU</b> : AMD Athlon XP 2600+(FSB266)	<b>PCI 1</b> : 3COM 3C905C-TX LAN
<b>Cache Memory</b> : 256KB	<b>PCI 2</b> : Generic Soft 56K modem
<b>Memory</b> : KingSton DDR333 256MB x 2	<b>PCI 3</b> : Tekram DC-390U2W SCSI
<b>HDD1 (ATA/100)</b> : Maxtor 5T060H6 61GB (PM)	<b>PCI 4</b> : Accton EN1207D-TX LAN
<b>HDD2 (ATA/100)</b> : Seagate ST-340810A 40GB (PS)	<b>PCI 5</b> : IBM Data Fax modem
<b>HDD3 (ATA/100)</b> : IBM DTLA-307015 15GB (PS)	<b>PCI 6</b> : Adaptec ASC-39160 SCSI
<b>DVD-ROM</b> : NEC DV-5800A 16X (SS)	<b>Audio</b> : Onboard ALC650 AC'97 Audio
<b>VGA</b> : ELSA GLADIAC 721 VGA	<b>LAN</b> : Onboard VIA VT6103L (PHY)
<b>FDD</b> : TEAC FD-235HG 1.44MB	<b>PowerSupply</b> : Seventeam ST-350GL ATX 350W
<b>Mouse</b> : Microsoft PS/2 mouse	<b>O.S. Environment:</b> Windows XP/Home Edition

Test Result						
BIOS detect	Install OS	All driver install	S1/S3	CC WS 2002	3D Mark 2001 SE	Stress burn in
Pass	Pass	Pass	Pass	Pass	Pass	Pass

### 6.3 PCB Cold Boot Test: (12 hours)

System Configuration	
<b>CPU</b> : AMD Athlon XP 2800+(FSB333)	<b>FDD</b> : TEAC FD-235HG 1.44MB
<b>Cache Memory</b> : 512 K	<b>PowerSupply</b> : ICute ICUTE-3200 ATX 320W
<b>Memory</b> : Apacer DDR333 512MB x 3	
<b>VGA</b> : Leadtek A250 Ultra TD 4X	

Test Result	
Cool Boot (over 600 times)	Pass





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

<b>Software Name</b>	<b>Duration</b>	<b>Result</b>
Winstone 2001 v1.0.3	12hr.	<i>Pass</i>
Test Configurations for Win 2000	AMD Athlon XP 2100+(FSB266) Maxtor 6L040J2 ATA/133 40GB HDD Elixir 256MB DDR266 Memory. x 2 FIC AT009LE VGA (ATI Radeon 9000) BenQ DVD1648A 16X IDE DVD-ROM	
M.C.C Winstone 2003 v1.0	12hr.	<i>Pass</i>
Test Configurations for Windows XP	AMD Athlon XP 1800+(FSB266) IBM IC35L120A ATA/100 120GB HDD Apacer 512MB DDR266 Memory.(Samsung) x 3 ATI Radeon 9700 Pro 8X VGA Actima AD16H 16X IDE DVD-ROM	
AMD Stress Test	12hr.	<i>Pass</i>
Test Configurations for Windows XP	AMD Athlon XP 2600+(FSB333) IBM IC35L060 60GB ATA/100 HDD KingMax 256MB DDR333 Memory. x 2 ATI Radeon 9700 Pro 8X VGA Panasonic SR-8587 16X IDE DVD-ROM	
3D MARK 2001 SE	12hr.	<i>Pass</i>
Test Configurations for Windows XP	AMD Athlon XP 2800+ (FSB333) IBM IC35L080A 80GB ATA/100 HDD KingSton 256MB DDR333 Memory x 2 FIC A96P 8X AGP (ATI Radeon 9600 Pro) Genuine GD-5016B 16X IDE DVD-ROM	
DVD Play	12hr.	<i>Pass</i>
Test Configurations for Windows XP	AMD Athlon XP 1800+(FSB266) Maxtor 6L080L4 ATA/133 80GB HDD SEITEC 256MB DDR333 Memory x 2 FIC A96P 8X AGP (ATI Radeon 9600 Pro) Lite-On LTD-163 16X IDE DVD-ROM Onboard Realtek ALC650 AC'97 Audio DVD Title: Star War II	



## 8. Hardware Compatibility Test Suite

### 8.1 Memory

#### Test Configuration:

OS Ver  Win XP + SP1 Ver: 2002

CPU AMD Duron 1300MHz (FSB200/Morgan)  
AMD Athlon XP 2600+ (FSB266/Thoroughbred)  
AMD Athlon XP 2800+ (FSB333/Barton)

HDD Maxtor 6Y200P0 200GB IDE  ATA/100  ATA/133

VGA FIC A97P (ATI Radeon 9700Pro) Channel:  PM  PS  SM  SS

CD-ROM ASUS CD-S520/A 52X CD-ROM  AGP 4X  AGP 8X

Sound Realtek ALC650 AC'97 Channel:  PM  PS  SM  SS

LAN VIA VT6103L(PHY)  PCI\_Slot:      On board

Mouse Microsoft IntelliMouse PS/2 Mouse  PCI\_Slot:      On board

COM  PS/2

The following DDR DRAM module test CC Winstone 2003/3D Mark 2001 SE/STR(S3) under Windows XP with BIOS set up default value and set to the follow condition 1024 x 768 x 32bit colors, resolution refresh rate of 85Hz, small font.

#### 8.1.1 DDR DRAM Module (DDR266/PC2100)

Vender	Chip vender	IC Part No.	Size	Side	Module No.
Apacer	Nayna	NT5DS32M8AT-7K	256MB	D	77.10603.542
	Mosel	V58C2256804SAT75	256MB	S	77.10604.562
	Infineon	HYB25D256800BT-7	512MB	D	77.10703.110
Samsung	Samsung	K4H280838B-TCB0	256MB	D	M368L3313BT1-CB0
	Samsung	K4H560838B-TCB0	512MB	D	M368L6423BT1-CB0Q0
Buffalo	Samsung	K4H280838B-TCB0	128MB	S	PC266DD128N8C
Transcend	Mosel	V58C2128804SAT75	256MB	D	TS32MLD64V6D5
	Winbond	W942508AH-75	512MB	D	
Crucial	Micron	MT46V16M8-75A	128MB	S	CT1672Z265.9T
	Micron	MT46V16M8-75A	256MB	D	CT3272Z265.18T
Micron	Micron	MT46V16M8-75A	128MB	S	MT8VDDT1664AG-265A1
	Micron	MT46V16M8-75A	256MB	D	MT16VDDT3264AG-265A1
	Micron	MT46V32M8-75	512MB	D	MT16VDDT6464AG-265B1
Kingston	Nanya	NT5DS16M8AT-7K	256MB	D	KVR266X64C25/256
	Winbond	W942508AH-75	256MB	S	KVR266X64C25/256
KingMax	KingMax	KDL684T4A2A-07A	256MB	D	MPDB62D-68KX2
Elixir	elixir	N2DS12880AT-75B	256MB	D	M2U25664DS88A0G-75B
	elixir	N2DS25680AT-75B	256MB	S	M2U25664DS88A0G-75B
Infineon	Infineon	HYB25D128800AT-7	128MB	D	HYS64D16000GU-7-A
	Infineon	HYB25D256800AT-7	256MB	D	HYS64D32000GU-7-A
	Infineon	HYB25D256800BT-7	256MB	S	HYS64D32000GU-7-B
	Infineon	HYB25D256800BT-7	512MB	D	HYS64D64020GU-7-B
SEITEC	SEITEC	DDR32M8AT-7	512MB	D	184DR512M638

\* DDR266 test under FSB 200/266/333 CPU only.



**8.1.2 DDR DRAM Module (DDR333/PC2700)**

Vender	Chip vender	IC Part No.	Size	Side	Module No.
Nanya	Nanya	NT5DS32M8AT-7K	256MB	S	NT256D64S88A0G-6
KingMax	KingMax	KDL684T4A2A-05	128MB	S	MPMA82D-68KX3
	KingMax	KDL684T4A2A-05	256MB	D	MPMB62D-68KX3
	KingMax	KDL684T4AA-60	256MB	D	MPMB62D-68KX3
Pan	Samsung	K4H560838C-TCB3	256MB	S	M368L3223CTL-CB3
KingSton	Winbond	W942508AH-6	512MB	D	KVR333X64C25/512
	Infineon	HYB25D256809AT-6	256MB	S	KVR333X64C25/256
	Nanya	NT5DS32M8AT-6	512MB	D	KVR333X64C25/512
Transcend	Samsung	K4H560838C-TCB3	256MB	S	TS32MLD64V3F5
	Samsung	K4H560838C-TCB3	512MB	D	TS64MLD64V3F5
	Samsung	K4H280838D-TCB3	256MB	D	TS32MLD64V3D5
	Mosel	V58C2256804SAT6	256MB	S	TS32MLD64V3F5
	Winbond	W942508BH-6	512MB	D	TS64MLD64V3F5
Apacer	Samsung	K4H560838C-TCB3	512MB	D	77.10728.460
	Samsung	K4H560838D-TCB3	256MB	S	77.10628.462
	Samsung	K4H560838D-TCB3	512MB	D	77.10728.460
Infineon	Infineon	HYB25D256800BT-6	256MB	S	HYS64D32000GU-6-B
	Infineon	HYB25D256800BT-6	256MB	S	HYS64D32300GU-6-B
SEITEC	SEITEC	DDR32M8AT-7	256MB	S	184DR256M338
TwinMOS	TwinMOS	TMD7608F8E60B	256MB	S	M2G5108AIATT5F0811DDT
LEMEL	PQI	PQ3D328V6	512MB	D	MD3412UPV
Ram Bo	Infineon	HYB25D256800BT-6	256MB	S	

\* DDR333 test under FSB 200/266/333 CPU only.

**8.1.3 DDR DRAM Module (DDR400/PC3200)**

Vender	Chip vender	IC Part No.	Size	Side	Module No.
Apacer	Samsung	K4H560838D-TCCC	256MB	S	77.10636.465
	Samsung	K4H560838D-TCC4	512MB	D	77.10736.464
Infineon	Infineon	HYB25D256160BT-5	128MB	S	HYS64D16301GU-5-B
	Infineon	HYB25D256800BT-5	256MB	S	HYS64D32300GU-5-B
Ram Bo	Samsung	K4H560838D-TCC4	256MB	S	
	Samsung	K4H560838D-TCC4	512MB	D	

\* DDR400 test under FSB 266/333 CPU only.



## 8.2 Add-on Cards

### 8.2.1 Display Adapter Products

#### Test Configuration:

**OS Ver**  Win XP + **SP1 Ver:** 2002  
**CPU** AMD Athlon XP 2800+ (FSB333/Barton)  
**HDD** Maxtor 6L040J2 40GB IDE       ATA/100  ATA/133  
**Channel:**  PM  PS  SM  SS  
**Memory** TwinMos 256MB(TwinMos)      **Total:** 768 MB  PC2100  PC2700  
**CD-ROM** Genuine GD-5016B 16X IDE DVD      **Channel:**  PM  PS  SM  SS  
**Sound** Realtek ALC650 AC'97       PCI\_Slot:     On board  
**LAN** VIA VT6103L(PHY)       PCI\_Slot:     On board  
**Mouse** Logitech MouseMan Mouse       COM  PS/2

The following AGP 4X/8X VGA cards test 3Dmark 2001 SE/AMD N-Bench 2.0/Suspend to RAM(S3) under Windows XP with their respective VGA drivers installed and set to the follow condition 1024 x 768 x 32bit colors, resolution refresh rate of 85Hz, small font.

#### 8.2.1.1 4X AGP Display Adapter Products

Vendor	VGA Chip	Product Description	Driver version
ATI	ATI Radeon 8500	Radeon 8500	6.14.01.6307
	ATI Radeon 9000 Pro	Radeon 9000 Pro	6.14.01.6307
ASUS	GeForce3 Ti200	AGP-V8200 T2 Deluxe (TV out)	6.14.01.4345
	GeForce4 Ti 4400	V8440 /TD	6.14.01.4345
Gainward	GeForce4 Ti 4600	4600XP	6.14.01.4345
FIC	ATI Radeon 9000 Pro	AT009	6.14.01.6307
ELSA	GeForce2 GTS Pro	GLADIAC Pro	6.14.01.4345
	GeForce3 Ti200	GLADIAC 721TV-Out	6.14.01.4345
	GeForce3 Ti500	GLADIAC 921 DVI	6.14.01.4345
	GeForce4 MX 440	GLADIAC 517TV-Out	6.14.01.4345
	GeForce4 Ti 4600	GLADIAC 925 ViVo	6.14.01.4345
Leadtek	GeForce4 Ti 4400	A250 TD	6.14.01.4345
	GeForce4 Ti 4600	A250 Ultra TD	6.14.01.4345

#### 8.2.1.2 8X AGP Display Adapter Products

Vendor	VGA Chip	Product Description	Driver version
FIC	ATI Radeon 9200LE	A92	6.14.01.6307
	ATI Radeon 9500	A95	6.14.01.6307
	ATI Radeon 9500 Pro	A95P	6.14.01.6307
	ATI Radeon 9600 Pro	A96P	6.14.01.6307
	ATI Radeon 9700	A97	6.14.01.6307
	ATI Radeon 9700 Pro	A97P	6.14.01.6307
ASUS	GeForce4 MX 440-8X	V9180	6.14.01.4345
	GeForce4 Ti4200-8X	V9280/TD	6.14.01.4345
Gainward	GeForce4 Ti4200-8X	4300XP	6.14.01.4443
Leadtek	GeForce4 MX440-8X	A180 DDR TDH	6.14.01.4345
	GeForce4 Ti4200-8X	A280 LE TD	6.14.01.4345
	Geforce FX 5600	A310TD MyViVo	6.14.01.4345



	Geforce FX 5200	A340TDH MyViVo	6.14.01.4345
ELSA	GeForce4 Ti4200-8X	GLADIAC 528	6.14.01.4345



## 8.2.2 SCSI Adapter Products

### Test Configuration:

**OS Ver**  Win XP + SP1 Ver: 2002.  
**CPU** AMD Athlon XP 2400+ (FSB266/Thoroughbred)  
**Memory** LEMEL 256MB (PQI) **Total: 512 MB**  PC2100  PC2700  
**VGA** FIC AT009 (ATI Radeon 9000 pro)  AGP 4X  AGP 8X  
**HDD** IBM IC35L036UWD210 36GB  Ultra II SCSI  Ultra160 Wide  
**CD-ROM** Toshiba XM-6210B 32X CD-ROM  Ultra SCSI  Ultra Wide  
**Sound** Realtek ALC650 AC'97  PCI\_Slot: \_\_.  On board  
**LAN** VIA VT6103L(PHY)  PCI\_Slot: \_\_.  On board  
**Mouse** Logitech MouseMan Mouse  COM  PS/2

The following PCI SCSI cards run M.C.C Winstone 2003/Copy large files(over 500MB) under Windows XP with their respective SCSI drivers installed and set to the follow condition 1024 x 768 x 32bit colors, resolution refresh rate of 85Hz, small font.

Vendor	Model Name	Product Description	Bus I/F
Adaptec	ASC-19160PK	Adaptec Ultra 160 PCI SCSI card 19160PK	PCI
	ASC-29160N	Adaptec ASC-29160N PCI SCSI card	PCI
	ASC-29160PK	Adaptec Ultra 160 PCI SCSI card 29160PK	PCI
	ASC-39160PK	Adaptec Ultra 160 PCI SCSI card 39160PK	PCI
Tekram	DC-390U2W	Tekram DC-390U2W PCI SCSI	PCI
	DC-390U3W	Tekram DC-390U3W PCI SCSI	PCI



### 8.2.3 PCI Audio Products

#### Test Configuration:

**OS Ver**  Win XP + SP1 Ver: 2002  
**CPU** AMD Athlon XP 2700+ (FSB333/Barton)  
**Memory** LEMEL 256MB (PQI) Total: 512 MB  PC2100  PC2700  
**VGA** ELSA GLADIAC 721  AGP 4X  AGP 8X  
**HDD** Seagate ST-340824A 40GB IDE  ATA/133  ATA/100  
**Channel:**  PM  PS  SM  SS  
**CD-ROM** Pioneer DVD-116/2 16X IDE DVD **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 DVD under Windows XP with their respective sound drivers installed .

Vendor	Model Name	Product Description
Creative	CT-4790	Sound Blaster PCI512 Digital
	CT-4860	Sound Blaster Live! Platinum
	SB-0240	Sound Blaster Audigy2 Platinum
Everdata	YAMAHA 754	Orpheua Digital PCI Sound Card
Terratec	Crystal CS4624-CQ	DMX Xfire Soundsystem PCI

\* Test under onboard Audio be Disabled on BIOS.

### 8.2.4 PCI Modem Products

#### Test Configuration:

**OS Ver**  Win XP + SP1 Ver: 2002  
**CPU** AMD Athlon XP 2400+ (FSB266/Thoroughbred)  
**Memory** Apacer 256MB(Samsung) Total: 512 MB  PC2100  PC2700  
**VGA** FIC AT009 (ATI Radeon 9000 Pro)  AGP 4X  AGP 8X  
**HDD** Maxtor 6E040L0 40GB IDE  ATA/100  ATA/133  
**Channel:**  PM  PS  SM  SS  
**CD-ROM** TEAC CD-552E 52X IDE **Channel:**  PM  PS  SM  SS  
**Sound** Realtek ALC650 AC'97  PCI\_Slot: \_\_  On board  
**LAN** VIA VT6103L(PHY)  PCI\_Slot: \_\_  On board  
**Mouse** Microsoft IntelliMouse PS/2 Mouse  COM  PS/2

The following PCI modem card test includes connecting to the internet,download files and test S1/S3/S4 under under Windows XP with their respective modem drivers installed .

Vendor	Product Description
Askey	1456VQH75
3COM	5690 56K & V90





## 8.3 Storage

### 8.3.1 SCSI Peripheral Products

#### Test Configuration:

**OS Ver**  Win XP Ver: 2002.  
**CPU** AMD Athlon XP 2400+ (FSB266/Thoroughbred)  
**Memory** Apacer 512MB(Samsung) **Total: 1000 MB**  PC2100  PC2700  
**VGA** ELSA GLADIAC 721  AGP 4X  AGP 8X  
**SCSI** Adaptec ASC-39160PK Ultra160  ISA  PCI\_Solt: 1.  
**Sound** Realtek ALC650 AC'97  PCI\_Slot:    .  On board  
**LAN** VIA VT6103L(PHY)  PCI\_Slot:    .  On board  
**Mouse** Logitech First Mouse+ Mouse  COM  PS/2

The following SCSI devices test Copy large files(over 500MB)/M.C.C Winstone 2003 under Windows XP with their respective SCSI drivers installed and set to the follow condition 1024 x 768 x 32bit colors, resolution refresh rate of 85Hz, small font.

ITEM	Vendor	Model Name	Product Description
Hard Disk	IBM	DDRS-39130	Ultra2 SCSI HDD 9.1GB
		IC35L018UWD210	Ultra160 18GB
		DMVS COMP IEC-950	Ultra2 Wide 36GB
		IC35L036UWD210	Ultra160 36GB
	Seagate	ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST-39236LW	Barracuda Ultra160 Wide 9GB
		ST-318437LW	Barracuda Ultra160 Wide 18GB
		ST-39204LW	Cheetah Ultra160 Wide 9GB
		ST-318406LW	Cheetah Ultra160 Wide 18GB
		ST318452LW	Cheetah Ultra160 Wide 18GB
ST336706LW		Cheetah Ultra160 Wide 36GB	
ST336752LW		Cheetah Ultra160 Wide 36GB	
CD-ROM	Plextor	PX-40Tsi	Ultra SCSI CD-ROM 40X
	Toshiba	XM-6210B	Ultra SCSI CD-ROM 32X
	Panasonic	CR-508	SCSI-II CD-ROM 24X
		LF-D291	SCSI-II 4.7GB DVD-RAM
	Afreey	CD-2050S	Ultra SCSI CD-ROM 50X
	TEAC	CDR 56S	(24R6W) CD-RW 24X
		CD-W512S-B82	(32R12W10RW) CD-RW 32X
	Nichimen	CDR-BP3N	(32R12W10RW) CD-RW 32X
YAMAHA	CRW2100S	(40R16W10RW) CD-RW 40X	
MO	Konica	GF-640	Super MO II External MO
	Fujitsu	MDG3064SS	DYNA MO 640 SF
ZIP	Iomage		SCSI ZIP 250 (External)



### 8.3.2 IDE Fixed Disk Drive Products

#### Test Configuration:

**OS Ver**  Win XP + SP1 Ver: 2002  
**CPU** AMD Athlon XP 2600+ (FSB333/Barton)  
**Memory** Nanya 256MB (Nanya) **Total: 768 MB** PC2100 PC2700  
**VGA** ASUS AGP-V8200 T2 AGP AGP 4X AGP 8X  
**CD-ROM** Actima AD16H 16X IDE DVD **Channel:** PM PS SM SS  
**Sound** Realtek ALC650 AC'97 PCI\_Slot:     On board  
**LAN** VIA VT6103L(PHY) PCI\_Slot:     On board  
**Mouse** Logitech First Mouse+ Mouse COM PS/2

The following IDE devices test and CC WinStone 2002/Copy large files(over 500MB) under Windows XP with OS default drivers installed and set to the follow condition 1024 x 768 x 32bit colors, resolution refresh rate of 85Hz, small font.

#### IDE ATA/100

Vendor	Model Name	Capacity
IBM	DTLA-307015	15.3GB
	DTLA-305020	20.5GB
	DTLA-307020	20.5GB
	DTLA-307030	30.7GB
	IC35L040AVER07-0	40GB
	DTLA-307045	46.1GB
	DTLA-307060	61.4GB
	IC35L060A	61.5GB
	DTLA-307075	76.8GB
	IC35L080A	82.3GB
	IC35L120A	120GB
Maxtor	51536H2	15.3GB
	52049H4	20.4GB
	53073H6	30.6GB
	34098H4	40.9GB
	54098H8	40.9GB
	4K040H2	40GB
	5T060H6	61GB
	98196H8	80GB
	4K080H4	80GB
	4W100H6	100GB
Seagate	ST320414A	20GB
	ST330631A	30.6GB
	ST340016A	40GB
	ST340810A	40GB
	ST340824A	40GB
	ST380020A	80GB
	ST380021A	80GB



WD	Caviar WD300BB	30GB
	Caviar WD400BB	40GB
	Caviar WD600BB	60GB
	Caviar WD800BB	80GB
	Caviar WD800JB	80GB
	Caviar WD1000BB	100GB
	Caviar WD1200BB	120GB
	Caviar WD1200JB	120GB
	Caviar WD2000JB	200GB
Samsung	SV3063H	30.6GB
	SV4084H	40.8GB

**IDE ATA/133**

Maxtor	6E020L0	20GB
	6E030L0	30GB
	6L040J2	40GB
	6L040L2	40GB
	6E040L0	40GB
	6L060J3	60GB
	6L060L3	60GB
	6Y060L0	60GB
	6L080J4	80GB
	6L080L4	80GB
	6Y080L0	80GB
	6Y120L0	120GB
	4G160JB	160GB
	6Y160P0	160GB
	6Y200P0	200GB

**8.3.3 ATAPI CD-ROM /DVD-ROM Device Product****Test Configuration:**

**OS Ver**  Win XP + SP1 Ver: 2002.  
**CPU** AMD Athlon XP 2400+ (FSB266/Thoroughbred)  
**Memory** KingSton 256MB (Infineon) **Total: 512 MB**  PC2100  PC2700  
**VGA** ELSA GLADIAC 517SV  AGP 4X  AGP 8X  
**HDD** Maxtor 6E030L0 30GB IDE  ATA/100  ATA/133  
**Channel:**  PM  PS  SM  SS  
**Sound** Realtek ALC650 AC'97  PCI\_Slot: \_\_.  On board  
**LAN** VIA VT6103L(PHY)  PCI\_Slot: \_\_.  On board  
**Mouse** Logitech TrackmanMarble Mouse  COM  PS/2

The following CD/DVD-ROM devices test to play VCD or DVD/Copy large files(over 500MB) under windows XP with OS default drivers installed and set to the follow condition 1024 x 768 x 32bit colors, resolution refresh rate of 85Hz, small font.

**8.3.3.1 ATAPI CD-ROM:**

Vendor	Model Name	Product Description
Genuine	GC-952B	ATAPI CD-ROM 52X UDMA33
ASUS	CD-S520/A	ATAPI CD-ROM 52X UDMA33
4KUS	CCD-52X6D	ATAPI CD-ROM 52X UDMA33
LITE-ON	LTN-485S	ATAPI CD-ROM 48X UDMA33
Mitsumi	CRMC-FX4820T	ATAPI CD-ROM 48X Mode4
	FX5400W	ATAPI CD-ROM 54X Mode4
Acer	650P	ATAPI CD-ROM 50X UDMA33
Creative	CD4833E	ATAPI CD-ROM 48X Mode4
TEAC	CD-552E	ATAPI CD-ROM 52X UDMA33
AOpen	CD-952E/AKH	ATAPI CD-ROM 52X UDMA33
SONY	CDU4811	ATAPI CD-ROM 48X UDMA33
YAMAHA	Audio Extractor	ATAPI CD-ROM 52X Mode4

**8.3.3.2 ATAPI DVD-ROM:**

Vendor	Model Name	Product Description
ASUS	DVD-E616	ATAPI DVD-ROM 16X UDMA100
Pioneer	DVD-116/2	ATAPI DVD-ROM 16X UDMA66
	DVD-117RD	ATAPI DVD-ROM 16X UDMA66
	DVD-120RD	ATAPI DVD-ROM 16X UDMA33
AOpen	DVD1648	ATAPI DVD-ROM 16X UDMA66
BenQ	DVD1648A	ATAPI DVD-ROM 16X Mode4
NEC	DV-5700B	ATAPI DVD-ROM 12X UDMA33
	DV-5800A	ATAPI DVD-ROM 16X UDMA33
Actima	AD16H	ATAPI DVD-ROM 16X Mode4
Genuine	GD-5016B	ATAPI DVD-ROM 16X UDMA66
Acer	DVP1640A	ATAPI DVD-ROM 16X Mode4
LITE-ON	LTD-163	ATAPI DVD-ROM 16X Mode4
	XJ-HD165H	ATAPI DVD-ROM 16X UDMA33
EPO	DVD-8216	ATAPI DVD-ROM 16X UDMA33



TEAC	DV-516E-A	ATAPI DVD-ROM 16X UDMA33
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## 8.4 Peripherals

### 8.4.1 Parallel/Serial Port Products (Including IR)

#### Test Configuration:

**OS Ver**  Win XP + SP1 Ver: 2002  
**CPU** AMD Athlon XP 2800+ (FSB333/Barton)  
**Memory** Transcend 256MB(Mosel) **Total: 512 MB**  PC2100  PC2700  
**HDD** WD Caviar 800JB 80GB IDE  ATA/100  ATA/133  
**CD-ROM** Mitsumi FX5400W 54X IDE **Channel:**  PM  PS  SM  SS  
**VGA** Leadtek A250 Ultra TD **Channel:**  PM  PS  SM  SS  
**Sound** Realtek ALC650 AC'97  AGP 4X  AGP 8X  
**LAN** VIA VT6103L(PHY)  PCI\_Slot: \_\_.  On board  
**Mouse** Logitech TrackMan Marble Mouse  PCI\_Slot: \_\_.  On board  
 COM  PS/2

The following Parallel/Serial devices be tested under Windows XP with OS default drivers installed.

Vendor	Product Description	Bus I/F
Iomage	ZIP 250	LPT
HP	LaserJet 6P	LPT/IR
	DeskJet 840c	LPT
	DeskJet 990cxi	LPT
	DeskJet 1220c	LPT
Kodak	DC210 InfraRed/Serial port Digital camera	COM/IR
ACTisys	ACT-IR210L Receiver/Transceiver	IR



## 8.4.2 PS/2 Keyboard/Mouse Products

### Test Configuration:

**OS Ver**  Win XP + SP1 Ver: 2002  
**CPU** AMD Athlon XP 2500+ (FSB266/Thoroughbred)  
**Memory** KingSton 512MB (Winbond) **Total: 1536 MB**  PC2100  PC2700  
**HDD** IBM IC35L040 40GB IDE  ATA/66  ATA/100  
**CD-ROM** EPO DVD-8216 16X IDE DVD **Channel:**  PM  PS  SM  SS  
**VGA** FIC A97P (ATI Radeon 9700 Pro)  AGP 4X  AGP 8X  
**Sound** Realtek ALC650 AC'97  PCI\_Slot:      On board  
**LAN** VIA VT6103L(PHY)  PCI\_Slot:      On board

The following PS/2 Keyboard and Mouse devices test Office XP and ACPI S3/S4 under Windows XP with Mouse drivers installed.

### Keyboard

Vendor	Product Description
Logitech	Cordless Keyboard/Desktop (PS2/Wireless)
	Internet Navigator Keyboard (Y-BE22)
	Cordless Freedom iTouch Keyboard (Y-RF21)
Microsoft	Natural Keyboard PS/2 Keyboard
	Wireless Optical Desktop (Wireless Keyboard + Wireless Mouse)
Genius	PR-Multimedia 98 (KWD-910) PS/2 Keyboard
Unikey	KWD-820 PS/2 Keyboard
GNT	FOLD-2000 PS/2 Keyboard
LEO	KB-9908 PS/2 Keyboard

### Mouse

Vendor	Product Description
Microsoft	Optical U/P Mouse (X06-25122)
	Explorer 3.0 U/P Mouse (X06-25120)
	TrackBall Explorer 1.0 U/P Mouse (X05-87473)
	Wireless Optical Desktop(KB+Mouse)
Logitech	MouseMan (M-CV46)
	MouseMan Dual Optical (M-BL63B)
eMachines	M-S34 (Logitech)
Dolphin	Dolphin-2000
Samsung	Cyber Beetle Mouse (Optical)
LEO	LEO-WIN



### 8.4.3 USB Device Products

#### Test Configuration:

**OS Ver**  Win XP + SP1 Ver: 2002.  
**CPU** AMD Athlon XP 2100+ (FSB266/Thoroughbred)  
**Memory** Transcend 512MB(Winbond) **Total: 1000 MB** PC1600 PC2100  
**HDD** Maxtor 4K040H2 40GB IDE ATA/100 ATA/133  
**Channel:** PM PS SM SS  
**CD-ROM** Pioneer DVD-116/2 16X IDE DVD **Channel:** PM PS SM SS  
**VGA** Gainward 4600XP AGP 4X AGP 8X  
**Sound** Realtek ALC650 AC'97 PCI\_Slot: \_\_. On board  
**LAN** VIA VT6103L(PHY) PCI\_Slot: \_\_. On board  
**Mouse** Logitech TrackMan Marble Mouse COM PS/2

The following USB devices be tested under Windows XP with Win XP default driver installed.

#### 8.4.3.1 USB 1.1 Devices

Type	Vendor	Description
Mouse	Logitech	USB Wheel Mouse (Optical) (M-BD58)
	Microsoft	IM Optical USB Mouse (X05-48976)
		IM Optical USB Mouse (X06-25122)
		TrackBall Explorer 1.0 USB Mouse (X05-87473)
Genius	NetScroll+ NB Eye Optical	
HUB	Belkin	Express Bus F5U001
Keyboard	BTC	8113W
	Microsoft	Natural Keyboard Pro
Printer	HP	DeskJet 840c
		DeskJet 990cxi
		DeskJet 1220c
	EPSON	Stylus Color 900
Scanner	EPSON	GT-7000
MO	OLYMPUS	Turbo MO MINI (MOS3390S)
ZIP	iomega	ZIP 250
Flash H_ Disk	Transcend	JetFlash 128MB
		JetFlash 512MB
GamePad	Logitech	WingMan Extreme USB GamePad
Joystick	Microsoft	SideWinder Precision 2

#### 8.4.3.2 USB 2.0 Devices

Type	Vendor	Description
HUB	Hung	USB 2.0 Hi-Speed Hub
HDD	Fujitsu	DYNA DISQ 20GB (MMA2200VB)
CD-R/RW	Plextor	PX-W2410TU (40R24W10RW)
	YAMAHA	CRW-F1ux (44R44W24RW)
Scanner	EPSON	Perfection 2450 Photo
MO	Fujitsu	DYNA MO 1300U2 (MDG3130UB)
Printer	HP	DeskJet 3820
ZIP	iomega	ZIP 750





## 8.5 Power Supply Products

### Test Configuration:

**OS Ver**  Win XP + SP1 Ver: 2002  
**CPU** AMD Athlon XP 2600+ (FSB333/Barton)  
**Memory** Apacer 512MB (Samsung) **Total: 1536 MB** PC2100 PC2700  
**HDD1** WD Caviar 1200JB 120GB IDE ATA/100 ATA/133  
**Channel:** PM PS SM SS  
**HDD2** WD Caviar 1000BB 100GB IDE ATA/100 ATA/133  
**Channel:** PM PS SM SS  
**CD-ROM** SONY CDU4811 48X IDE CD-ROM **Channel:** PM PS SM SS  
**CD-ROM** BenQ DVD-1648A 16X IDE DVD **Channel:** PM PS SM SS  
**VGA** FIC A97P (ATI Radeon 9700 Pro) AGP 4X AGP 8X  
**Sound** Realtek ALC650 AC'97 PCI\_Slot:     On board  
**LAN** VIA VT6103L(PHY) PCI\_Slot:     On board  
**LAN1** 3COM 3C905B 10/100 PCI\_Slot:  1  On board  
**LAN2** Realtek 8139B 10/100 PCI\_Slot:  2  On board  
**LAN3** Intel 82559 10/100 PCI\_Slot:  3  On board  
**LAN4** Intel 82559 10/100 PCI\_Slot:  4  On board  
**LAN5** Intel 82559 10/100 PCI\_Slot:  5  On board  
**Mouse** Logitech TrackMan Marble Mouse USB PS/2

The following Power supply devices test Cold boot, reboot and S1/S3/S4 under Windows XP, They based on system full loading and over 5 times.

Vendor	Product Description	Power	AC Input Voltage	Type
DELTA	DPS-250KB-3	250W	110/220	ATX
	DPS-300KB-1	300W	110/220	ATX
	DPS-350NB	350W	110/220	ATX
Seventeam	ST-250BLP	250W	110/220	ATX
	ST-250BLV	250W	110/220	ATX
	ST-300BLV	300W	110/220	ATX
	ST-300HLP	300W	110/220	ATX
	ST-350GL	350W	110/220	ATX
Seasonic	SS-250FS	250W	110/220	ATX
	SS-300FS	300W	110/220	ATX
ICute	P4-3000TC	300W	110/220	ATX
	AL-3000P4	300W	110/220	ATX
L&C	LC-A250ATX	250W	110/220	ATX
Good Vision	XP-375X	375W	110/220	ATX
ENERMAX	EG265P-VE	250W	110/220	ATX
	EG301P-VE	300W	110/220	ATX
	EG365P-VE	350W	110/220	ATX
SD	SD-300W-12V	300W	110/220	ATX



HEC	HEC-250VR-T	250W	110/220	ATX
	HEC-300VD-T (SLN)	300W	110/220	ATX
	HEC-350LD-T	350W	110/220	ATX
Century Star	ATX 300W	300W	110/220	ATX
	ATX 350W	350W	110/220	ATX
Golden Field	ATX-320WB&P4	300W	220	ATX
HOPELY	ATX-250SE-P4	250W	220	ATX
	ATX-300SE-P4	300W	220	ATX
	ATX-300S	300W	220	ATX
STR	SPS-300W Rev:03	300W	220	ATX



## 9. Software Compatibility Test Suite

### 9.1 Base Operating System

#### 9.1.1 Microsoft Windows ME:

##### Test Configuration:

**CPU** AMD Athlon XP 2100+ (FSB266/Thoroughbred)  
**Memory** KingMax 256MB(KingMax) **Total: 512 MB** PC2100 PC2700  
**HDD** Maxtor 6L060J3 60GB IDE ATA/100 ATA/133  
**Channel:** PM PS SM SS  
**VGA** ELSA GLADIAC Pro AGP 4X AGP 8X  
**CD-ROM** Plextor PX-320A 12X IDE DVD-RW **Channel:** PM PS SM SS  
**Sound** Realtek ALC650 AC'97 PCI\_Slot: \_\_. On board  
**LAN** VIA VT6103L(PHY) PCI\_Slot: \_\_. On board  
**Keyboard** Unikey KWD-820 USB PS/2  
**Mouse** eMachines M-S34 USB PS/2

Test Item		Result	Remark
FDISK (FAT32)		PASS	
FIC 1stUtilities all M/B drivers Install & Test		PASS	
Device Management check (No Caution)		PASS	
PS/2 Keyboard and Mouse function		PASS	
Large file Copy from DVD-ROM (Over 500MB)		PASS	
DVD play		PASS	
ACPI – S1 (Stand By function)	System can standby to S1	PASS	
	System can resume from S1	PASS	
ACPI – S3 (Suspend To Memory)	System can standby to S3	PASS	
	System can resume from S3	PASS	
ACPI – S4/Hibernate (Suspend To Disk)	System can standby to S4	PASS	
	System can resume from S4	PASS	
M.C.C WinStone 2003 v1.0		PASS	23.4
3D Mark 2001 SE		PASS	4655

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

**9.1.2 Microsoft Windows XP/Home Edition + Service Pack 1:****Test Configuration:**

**CPU** AMD Athlon XP 2100+ (FSB266/Thoroughbred)  
**Memory** Apacer 512MB(Samsung) **Total: 1000 MB** PC2100 PC2700  
**HDD** Maxtor 6L060J3 60GB IDE ATA/133 ATA/100  
**Channel:** PM PS SM SS  
**VGA** Gainward 4300XP AGP 4X AGP 8X  
**CD-ROM** Plextor PX-320A 12X IDE DVD-RW **Channel:** PM PS SM SS  
**Sound** Realtek ALC650 AC'97 PCI\_Slot:\_. On board  
**LAN** VIA VT6103L(PHY) PCI\_Slot:\_. On board  
**Keyboard** Unikey KWD-820 USB PS/2  
**Mouse** Microsoft IntelliMouse Mouse USB PS/2

Test Item		Result	Remark
Install Win XP with NTFS (boot from CD )		PASS	
FIC 1stUtilities all M/B drivers Install & Test		PASS	
Device Management check (No Caution)		PASS	
PS/2 Keyboard and Mouse function		PASS	
Large file Copy from DVD-ROM (Over 500MB)		PASS	
DVD play		PASS	
ACPI – S1 (Stand By function)	System can standby to S1	PASS	
	System can resume from S1	PASS	
ACPI – S3 (Suspend To Memory)	System can standby to S3	PASS	
	System can resume from S3	PASS	
ACPI – S3/Hibernate (Suspend To Disk)	System can standby to S4	PASS	
	System can resume from S4	PASS	
M.C.C WinStone 2003 v1.0		PASS	29.2
3D Mark 2001 SE		PASS	9933

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 XP / Home Edition	2002	English	Microsoft	Pass
Windows XP Service Pack	1.0	English	Microsoft	Pass

**9.1.3 Microsoft Windows 2000 + Service Pack 3:****Test Configuration:**

**CPU** AMD Athlon XP 2100+ (FSB266/Thoroughbred)  
**Memory** KingMax 256MB(KingMax) **Total: 512 MB** PC2100 PC2700  
**HDD** Maxtor 6L060J3 60GB IDE ATA/100 ATA/133  
**VGA** ELSA GLADIAC Pro AGP 4X AGP 8X  
**CD-ROM** Pioneer DVD-120RD 16X IDE DVD **Channel:** PM PS SM SS  
**Sound** Realtek ALC650 AC'97 PCI\_Slot:\_\_. On board  
**LAN** VIA VT6103L(PHY) PCI\_Slot:\_\_. On board  
**Keyboard**Unikey KWD-820 USB PS/2  
**Mouse** eMachines M-S34 USB PS/2

Test Item	Result	Remark
Install Win 2000 with NTFS (boot from CD )	PASS	
FIC 1stUtilities all M/B drivers Install & Test	PASS	
Device Management check (No Caution)	PASS	
PS/2 Keyboard and Mouse function	PASS	
Large file Copy from DVD-ROM (Over 500MB)	PASS	
DVD play	PASS	
ACPI – S1 (Stand By function)	System can standby to S1	PASS
	System can resume from S1	PASS
ACPI – S3 (Suspend To Memory)	System can standby to S3	PASS
	System can resume from S3	PASS
ACPI – S3/Hibernate (Suspend To Disk)	System can standby to S4	PASS
	System can resume from S4	PASS
M.C.C WinStone 2003 v1.0	PASS	28.6
3D Mark 2001 SE	PASS	4694

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
Windows 2000 Service Pack	3.0	English	Microsoft	Pass

**9.1.4 Red Hat 9.0 Linux:****Test Configuration:**

**CPU** AMD Athlon XP 2600+ (FSB333/Barton)  
**Memory** KingMax 256MB(KingMax) **Total: 512 MB** PC2100 PC2700  
**HDD** WD Caviar WD1000BB 100GB IDE ATA/100 ATA/133  
**Channel:** PM PS SM SS  
**VGA** ELSA GLADIAC Pro AGP 4X AGP 8X  
**CD-ROM** Pioneer DVD-116/2 16X IDE DVD **Channel:** PM PS SM SS  
**Sound** Realtek ALC650 AC'97 PCI\_Slot:\_\_. On board  
**LAN** VIA VT6103L(PHY) PCI\_Slot:\_\_. On board  
**Keyboard** Unikey KWD-820 USB PS/2  
**Mouse** eMachines M-S34 USB PS/2

Test Item	Result	Remark
Install Linux	PASS	
PS/2 Keyboard and Mouse function	PASS	
System reboot/warm boot (2 times)	PASS	
Format FDD	PASS	
VGA Resolution/Color change	PASS	
X Windows	PASS	
Connect to Internet	PASS	
PM function	PASS	

Operating System	Version	Language	Company	Status
Red Hat Linux	9.0	English		Pass



## 10. Onboard Function Test Suite

### 10.1 Realtek ALC650 AC'97 Codec Audio:

#### Test Configuration:

OS Ver  Win XP + SP1 Ver: 2002  
CPU AMD Athlon XP 2500+ (FSB333/Barton)  
AMD Athlon XP 2200+ (FSB266/Thoroughbred)  
AMD Duron 1.3GHz (FSB200/Morgan)

Memory LEMEL 512MB(PQI) Total: 1000 MB  PC2100  PC2700  
HDD IBM IC35L120A 120GB IDE  ATA/66  ATA/100  
Channel:  PM  PS  SM  SS  
CD-ROM NEC DV-5800A 16X IDE DVD Channel:  PM  PS  SM  SS  
VGA FIC A96P (ATI Radeon 9600 Pro)  AGP 4X  AGP 8X  
LAN VIA VT6103L(PHY)  PCI\_Slot:      On board  
Mouse Logitech First Mouse+ Mouse  COM  PS/2

Test Item		Result (CPU)		
		2500+	2200+	1.3GHz
Audio driver install		PASS	PASS	PASS
Audio play	WAV/MP3 files	PASS	PASS	PASS
	MIDI files	PASS	PASS	PASS
	Music CD	PASS	PASS	PASS
Sound adjust volume control		PASS	PASS	PASS
CD-IN connector		PASS	PASS	PASS
Rear Panel	Lin-Out	PASS	PASS	PASS
	Lin-In	PASS	PASS	PASS
	MIC	PASS	PASS	PASS
Record	CD-IN	PASS	PASS	PASS
	Lin-In	PASS	PASS	PASS
	MIC	PASS	PASS	PASS
ACPI Function	S1	PASS	PASS	PASS
	S3(STR)	PASS	PASS	PASS
	S4(STD) Hibernate	PASS	PASS	PASS
5.1 CH output	Center/BASS	PASS	PASS	PASS
	Rear	PASS	PASS	PASS
	SPDIF Output	PASS	PASS	PASS
VCD play	2 CH audio output	PASS	PASS	PASS
	5.1 CH audio output	PASS	PASS	PASS
DVD play	2 CH audio output	PASS	PASS	PASS
	5.1 CH audio output	PASS	PASS	PASS
Audio Quality (2CH/5.1 CH)		PASS	PASS	PASS

**10.2 VIA VT6307L IEEE 1394: (Option)****Test Configuration:**

**OS Ver**  Win XP + SP1 Ver: 2002.  
**CPU** AMD Athlon XP 2400+ (FSB266/Thoroughbred)  
**Memory** Samsung 512MB (Samsung) **Total: 1000 MB**  PC2100  PC2700  
**HDD** WD Caviar WD800BB 80GB IDE  ATA/133  ATA/100  
**CD-ROM** NEC DVD-5800A 16X IDE DVD **Channel:**  PM  PS  SM  SS  
**VGA** Leadtek A250 Ultra TD  AGP 4X  AGP 8X  
**Sound** Realtek ALC650 AC'97  PCI\_Slot: \_\_.  On board  
**LAN** VIA VT6103L(PHY)  PCI\_Slot: \_\_.  On board  
**Mouse** Logitech TrackMan Marble Mouse  COM  PS/2

The following IEEE 1394 devices be tested under Windows XP with Win XP default driver installed.

Type	Vendor	Description	Model
HDD	Maxtor	1394 External Storage 80GB	FWRA080LE001
	DATA-TEC	3.5"HDD Aluminum Mobile Enclosure (include:Samsung SV3063H 30.6GB ATA-100 HDD)	
Camera	SONY	1394 Color Digital Camera	DFW-VL500
Repeater	Aplux	Amazonplus 400	
CD-RW	SONY	Spessa i.LINK S400 CD-RW	CRX145S/XS





## 11. Benchmark

### Test Configuration:

**OS Ver**  Win XP + SP1 Ver: 2002  
**CPU** AMD Athlon XP 3000+ (FSB333/Barton)  
**Memory** Transcend 256MB(Samsung) **Total: 512 MB** PC2100 PC2700  
**HDD** WD Caviar 1200JB 120GB IDE ATA/100 ATA/133  
**Channel:** PM PS SM SS  
**VGA** ELSA GLADIAC 925 ViVo AGP 4X AGP 8X  
**CD-ROM** Pioneer DVD-120RD 16X IDE DVD **Channel:** PM PS SM SS  
**Sound** Realtek ALC650 AC'97 PCI\_Slot:     On board  
**LAN** VIA VT6103L(PHY) PCI\_Slot:     On board  
**Mouse** Microsoft IntelliMouse Mouse COM PS/2

The Benchmark test under Windows XP with 1stUtilities drivers and DirectX 9.0 installed, set to the follow condition 1024 x 768 x 32bit colors, resolution refresh rate of 85Hz, small font.

Benchmarks	Weighted Suite	Result
Winstone 2002 V1.0.1	Business Winstone 2002 scores	<b>34.2</b>
C.C Winstone 2002 V1.0.1	Winstone 2002 scores	<b>41.6</b>
M.C.C Winstone 2003 V1.0	Winstone 2003 scores	<b>38.3</b>
3D Mark 2001 SE	3D MARK scores	<b>12732</b>
3D Mark 2003 (build 330)	3D MARK scores	<b>1846</b>
Quake III Arena		<b>205</b>
PCMark 2002	CPU Score	<b>6428</b>
	Memory Score	<b>4750</b>
	HDD Score	<b>1040</b>

\* The Benchmark test under BIOS set to default.



**Test Engineer:**

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**I/O :**     *RIC Lu*    

**Audio:**     *Lion Liou*    

**CPU:**     *Leon Liang*    

**VGA:**     *Jimmy Kao*    

**Memory:**     *MengFang*    

**IDE Devices:**     *Jeffrey Yuan*    

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**Power:**     *RIC Lu*    

**Check by:**     *Lion Liou*    

**Ownership:**     *Benson Shen*