

FIC AN19E/C PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

AN19E Full Function Support AN19C Without Onboard RAID & Serial ATA

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Supervisor	Tester

FIC Research & Development Department



Revision History

Document Release	Date	Change Item	ECN
Revision 1.00	12/06/2002	Initial Release.	



Table of Contents

1. Introduction	4
2. Mainboard Features	5
3. Mainboard CPU Supports:	5
4. System Specification for Hardware and Software Utilities	6
5. Jumper Function Verification	7
6. Stability Test	8
6.1 CPU Over Clock Test:	8
6.2 Full Loading Test: (1 day)	8
6.3 PCB Cool Boot Test: (12 hours)	8
7. Field (Stress) Test: Dynamic Burn-in Tests	9
8. Hardware Compatibility Test Suite	10
8.1 Memory	10
8.1.1 DDR DRAM Module (DDR266/PC2100)	10
8.1.2 DDR DRAM Module (DDR333/PC2700)	10
8.2 Add-on Cards	11
8.2.1 Display Adapter Products (AGP)	11
8.2.1.1 4X AGP Display Adapter Products	11
8.2.1.2 8X AGP Display Adapter Products	12
8.2.2 SCSI Adapter Products	13
8.2.3 PCI Modem Products	13
8.2.4 PCI Audio Products	14
8.3 Storage	15
8.3.1 SCSI Peripheral Products	15
8.3.2 IDE Fixed Disk Drive Products	16
8.3.3 ATAPI CD-ROM /DVD-ROM Device Product	17
8.3.3.1 ATAPI CD-ROM:	17
8.3.3.2 ATAPI DVD-ROM:	17
8.4 Peripherals	19
8.4.1 Parallel/Serial Port Products (Including IR)	19
8.4.2 Mouse Products	20
8.4.3 USB Device Products	20
8.4.3.1 USB 1.1 Devices	20
8.4.3.2 USB 2.0 Devices	21
8.5 Power Supply Products	22
9. Software Compatibility Test Suite	23
9.1 Base Operating System	23
9.1.1 Microsoft Windows 98 SE:	23
9.1.2 Microsoft Windows ME:	24
9.1.3 Microsoft Windows XP/Home Edition + Service Pack 1:	25
9.1.4 Microsoft Windows 2000 + Service Pack 3:	26
10. Onboard Function Test Suite	26
10.1 Serial ATA:	26
10.1.1 RAID 0:	26
10.1.2 RAID 1:	28
10.2 Realtek ALC650 AC'97 Codec Audio:	29



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 : AN19E/C PCB Rev 1.0 (AN19C W/O Onboard RAID & Serial ATA)
Product Name : VIA KT400 Based Mainboard
System BIOS : Award BIOS Version VMA45
PCI IDE : Internal PCI Mastre dual IDE
I/O : Winbond W83697HF

3. Mainboard CPU Supports:

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

f 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 KT400 + VT8235
System Cache	64/256K Pipeline Burst SRAM Built-in CPU
System Memory	DDR200/266/333(PC1600/2100/2700) Support
	Maximum : 3GB DDR DRAM
	3 DIMM slots for 184 pins DDR SDRAM Module
System Slots	1 AGP and 6 PCI slots
LAN	VIA VT8235 LAN with VIA VT6103 (PHY) 10/100 LAN Chip
Audio	VIA VT8235 Audio with Realtek ALC650 AC'97 codec
RAID (Option)	HighPoint HPT372/372N IDE RAID
Serial ATA(Option)	Silicon Image Sil3112A
I/O	Winbond W83697HF I/O Support FDD,Serial,Parallel,Game and IrDA interface

4.1 Main Functionality :

Num.	M/B function
1	ACPI Ready (support S0/S1/S3/S4/S5)
2	Wake On LAN / Wake On Ring
3	RTC Alarm Function
4	H/W Monitoring (CPU/System TEMP, All FAN speed, Voltage)
5	NOVUS II
	Logo Genie
	BIOS Easy Kit
	BIOS Flash Protect (Guardian feature)
6	Ultra DMA 33/66/100/133 Enhanced IDE Interface
7	Onboard VIA VT6103 (PHY) 10/100 LAN
8	Onboard Realtek ALC650 AC'97 Audio support 2/5.1(sharing) channel
9	Onboard HighPoint HPT372/372N IDE RAID support RAID 0/1
10	Onboard Silicon Image Sil3112A Serial ATA support RAID 0/1
11	USB 1.1/2.0 Function (Front x 2 /Rear x 4)
12	Power Failure feature
13	Support CPU over clock Adjustment

4.2 Main Software Utilities :

Num.	M/B function	Version
1	VIA 4 in 1 Chipset Driver	4.43
2	HighPoint HPT372/372N IDE RAID driver	2.31
3	Silicon Image Sil3112A Serial ATA Base Driver	1.0.0.22
4	Realtek ALC650 AC'97 Audio driver	5.10.4010
5	VIA VT6103 (PHY) 10/100 LAN driver	3.3.0.327
6	Award BIOS Flash ROM Utilities	8.20a



5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Reset Switch	RESET	Open	Pass
Speaker Connector	SPEAKER	Open	Pass
Power LED (Single color)	PW_LED	Open	Pass
IR interface	IR	Open	Pass
IDE HDD LED Connector	HD_LED	Open	Pass
Remote Power Switch	PW_ON	Open	Pass
CPU FAN Connector	CPU_FAN	Open	Pass
Chassis FAN Connector	CHASSIS_FAN	Open	Pass
North Bridge FAN Connector	FAN3	Open	Pass
Host Frequency Jumper	JCK1	1-2	Pass
Clear CMOS	JBAT	1-2	Pass
Front Audio Connector	AUD2	5-6,9-10	Pass
CD_IN Connector (RGGL)	CD1	Open	Pass
AUX_IN Connector	AUX1	Open	Pass
Front USB Connector	USB3	Open	Pass
Wake On LAN	WOL1	Open	Pass
Serial ATA Connector	SATA1,SATA2	Open	Pass



6. Stability Test

6.1 CPU Over Clock Test:

System Configuration	
CPU : AMD Athlon XP 2000+ (FSB266)	FDD : NEC FD1231T 1.44MB
Cache Memory : 256KB	Audio : Onboard Realtek ALC650 AC'97
Memory : Transcend DDR266 256MB X 2	Mouse : Microsoft PS/2 mouse
HDD (ATA/133) : Maxtor 6L040J2 40GB	PowerSupply : Telta HI-300PB 300W ATX
VGA : ELSA GLADIAC Pro AGP	O.S. Environment: Windows XP + SP1
DVD-ROM : ASUS DVD-E616 16X DVD	

NO.	Over clock level		Test Result				
	FSB	CPU ID	Cool boot	Install OS	S3	Winstone 2001	3D Mark2001
1	136MHz	2000+	Pass	Pass	Pass	56.6	4365
2	138MHz	2100+	Pass	Pass	Pass	57.9	4382

6.2 Full Loading Test: (1 day)

System Configuration	
CPU : AMD Athlon XP 2600+(FSB266)	FDD : NEC FD1231T 1.44MB
Cache Memory : 256 K	Audio : Onboard Realtek ALC650 AC'97
Memory : Transcend DDR266 128MB X 3	Mouse : Microsoft PS/2 mouse
HDD 1(ATA/133) : Maxtor 6L040J2 40GB	PowerSupply : Telta HI-300PB 300W ATX
HDD2 (ATA/100) : Maxtor 53073H6 30GB	O.S. Environment: Windows XP + SP1
DVD-ROM1 : Ricoh MP5125A 8X DVD-RW	
DVD-ROM2 : Actima AD12H 12X DVD	
VGA : Gainward 4400XP AGP	

Test Result						
BIOS detect	Install OS	All driver install	S1/S3	CC WS 2002	Stress burn in	DVD play
Pass	Pass	Pass	Pass	35.9	Pass	Pass

6.3 PCB Cool Boot Test: (12 hours)

System Configuration	
CPU : AMD Athlon XP 2100+(FSB266)	FDD : NEC FD1231T 1.44MB
Cache Memory : 256 K	PowerSupply : HOPELY ATX-250SE-P4 250W
Memory : Transcend DDR266 256MB x 3	
VGA : ASUS V8420 Deluxe AGP	

Test Result	
Cool Boot (over 500 times)	Pass



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

Software Name	Duration	Result
CC Winstone 2002 v1.0.1	12hr.	<i>Pass</i>
Test Configurations for Win XP + SP1	AMD Athlon XP 2200+ WD Caviar 1200JB ATA/100 120GB HDD Apacer 128MB DDR266 DRAM Memory. X 2 ELSA GLADIAC AGP	
BCM	12hr.	<i>Pass</i>
Test Configurations for Win ME	AMD Athlon XP 1900+ Maxtor 4D040K2 ATA/100 40GB HDD Hynix 256MB DDR266 DRAM Memory. X 2 ELSA GLADIAC 721 AGP	
3D Mark 2001 SE	12hr.	<i>Pass</i>
Test Configurations for Win XP + SP1	AMD Athlon XP 2000+ Seagate ST-330631A ATA/100 30.6GB HDD KingSton 256MB DDR266 DRAM Memory. X 2 ATI Radeon 8500 AGP	
DVD Play	12hr.	<i>Pass</i>
Test Configurations for Win XP + SP1	AMD Athlon XP 2000+ WD Caviar 1200JB ATA/100 120GB HDD PQI 256MB DDR266 DRAM Memory. X 2 ELSA GLADIAC Pro AGP Actima AD12H 12X IDE DVD-ROM DVD name: Vertical Limit	



8. Hardware Compatibility Test Suite

8.1 Memory

Test Configuration:

OS Ver Win XP + SP1 Ver: 2002
 Win 2000 + SP3 Ver: 5.00.2195

CPU AMD Athlon XP 2700+(2166MHz) AMD
HDD Maxtor 6L060L3 60GB IDE ATA/100 ATA/133
Channel: PM PS SM SS
 Onboard AGP 4X
VGA Compro Geforce4 MX420 Channel: PM PS SM SS
CD-ROM Aopen DVD1648 16X DVD PCI_Slot: On board
 PCI_Slot: On board
Sound Realtek ALC650 AC'97 COM PS/2
LAN VIA VT6103 (PHY)
Mouse Microsoft IntelliMouse PS/2 Mouse

The following PC2100/2700 DDR DRAM module test ZD CC Winstone 2002/3D Mark 2001 SE under Windows XP/2000 and run Memtest 3.0 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	IC Part No.	Size	Side	Module No.
Micron	MT46V16M8-75A	128MB	S	MT8VDDT1664AG-265A1
	MT46V32M8-75	512MB	D	MT16VDDT6464AG-265B1
Apacer	V58C2128804SAT7 (Mosel)	128MB	S	77.10303.562
	V58C2128804SAT7 (Mosel)	256MB	S	77.10203.560
	HYB25D256800AT-7(Infineon)	512MB	D	77.10703.110
	K4H280838D-TCB0 (Samsung)	512MB	D	77.10704.460
PQI	PQ6D168S75-7	256MB	D	MD6456UPS
Kingston	NT5DS16M8AT-7K	256MB	D	KVR266X64C25/256
	W942508AH-75	256MB	S	KVR266X64C25/256
	W942508AH-75	512MB	D	KVR266X64C25/512
Hynix	HY5DU28822AT-H	256MB	D	HYMD132645 A8-H
Transend	K4H280838C-TCB0	256MB	D	(Samsung)
	V58C2128804SAT75	256MB	D	TS32MLD64V6D5 (Mosel)
	MT46V16M8-75A	128MB	S	TS16MLD64V6D5 (Micron)
Infineon	HYB25D256800AT-7	512MB	D	HYS64D64020GU-7-A
Elixir	N2DS12880AT-75B	256MB	D	M2U25664DS8HA0G-75B
SEITEC	DDR32M8AT-7	512MB	D	184DR512M638

8.1.2 DDR DRAM Module (DDR333/PC2700)

Vender	IC Part No.	Size	Side	Module No.
Nanya	NT5DS32M8AT-7K	256MB	S	NT256D64S88A0G-6
KingMax	KDL684T4A2A-05	256MB	D	MPMB62D-68KX3
KingSton	W942508AH-6 (Winbond)	512MB	D	KVR333X64C25/512
	HYB25D256809AT-6 (Infineon)	256MB	S	KVR333X64C25/256
	NT5DS32M8AT-6 (Nanya)	512MB	D	KVR333X64C25/512
Infineon	HYB25D256800BT-6	256MB	S	HYS64D32000GU-6-B
Transcend	K4H560838C-TCB3 (Samsung)	512MB	D	TS64MLD64V3F5
	K4H280838D-TCB3 (Samsung)	256MB	D	TS32MLD64V3D5



W942508BH-6 (Winbond)	512MB	D	TS64MLD64V3F5
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8.2 Add-on Cards

8.2.1 Display Adapter Products (AGP)

Test Configuration:

OS Ver	<input checked="" type="checkbox"/> Win XP + SP1	Ver: <u>2002</u>	
CPU	AMD Athlon XP 2000+(1667MHz)		<input checked="" type="checkbox"/> AMD
HDD	Seagate ST-330631A 30.6GB IDE		<input checked="" type="checkbox"/> ATA/100 <input type="checkbox"/> ATA/133
Memory	Transcend 512MB(Samsung)		Channel: <input checked="" type="checkbox"/> PM <input type="checkbox"/> PS <input type="checkbox"/> SM <input type="checkbox"/> SS
CD-ROM	Actima AD16H 16X IDE DVD		Total: <u>1000</u> MB <input checked="" type="checkbox"/> PC2700 <input type="checkbox"/> PC2100
Sound	Realtek ALC650 AC'97		Channel: <input type="checkbox"/> PM <input type="checkbox"/> PS <input checked="" type="checkbox"/> SM <input type="checkbox"/> SS
LAN	VIA VT6103 (PHY)		<input type="checkbox"/> PCI_Slot: <u> </u> <input checked="" type="checkbox"/> On board
Mouse	Logitech MouseMan Mouse		<input type="checkbox"/> PCI_Slot: <u> </u> <input checked="" type="checkbox"/> On board
			<input type="checkbox"/> COM <input checked="" type="checkbox"/> PS/2

The following AGP 4X VGA cards test 3Dmark 2001/Final Reality 1.01 /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
Compro	GeForce4 MX 420	VideoMate MX / GeForce4 MX 420	6.13.10.3082
	GeForce4 MX 440	VideoMate MX / GeForce4 MX 440	6.13.10.3082
	GeForce4 Ti 4600	VideoMate Cinema / GeForce4 Ti 4600	6.13.10.3082
ATI	Radeon VE	Radeon VE	6.13.10.6166
	Radeon	Radeon	6.13.10.6166
	Radeon	All-In-Wonder Radeon	6.13.10.6166
	ATI Radeon 7500	Radeon 7500	6.13.10.6143
	ATI Radeon 8500	Radeon 8500	6.13.10.6166
	ATI Radeon 9000 Pro	Radeon 9000 Pro	6.13.10.6166
FIC	ATI Radeon 7000	A70L	6.13.10.6143
	ATI Radeon 9000	AT009LE	6.13.10.6143
	ATI Radeon 9000 Pro	AT009	6.13.10.6143
	ATI Radeon 9000	A91L	6.13.10.6143
ASUS	Riva TNT2 Pro	AGP-V3800 Pro	6.13.10.2940
	GeForce256	AGP-V6600	6.13.10.2940
	GeForce256	AGP-V6800	6.13.10.2940
	GeForce2 MX	AGP-V7100	6.13.10.2940
	Riva Geforce2 GTS	AGP-V7700	6.13.10.2940
	Riva GeForce2 GTS	AGP-V7700 Deluxe	6.13.10.2940



	GeForce3 Ti200	AGP-V8200 T2 Deluxe	6.13.10.2940
	GeForce4 Ti 4200	V8420 Deluxe	6.13.10.2940
	GeForce4 Ti 4400	V8440 /TD	6.13.10.2940
	GeForce4 Ti 4600	V8460 Ultra /TD	6.13.10.2940
Matrox	MGA-G450	Millennium G450	5.12.01.1860
	MGA-G550	Millennium G550	5.13.01.1340
Top Solution	SiS 315 + 301	3D Thriller	6.13.10.3030
Visiontek	Riva Geforce3	Geforce3 (TV out)	6.13.10.3082
Gainward	GeForce3 Ti200	GeForce3 PowerPack !!!	6.13.10.3082
	GeForce4 MX 420	420T	6.13.10.3082
	GeForce4 Ti 4400	4400XP	6.13.10.3082
	GeForce4 Ti 4600	4600XP	6.13.10.3082
ELSA	Riva Geforce2 GTS Pro	GLADIAC Pro	6.13.10.3100
	GeForce3	GLADIAC 920	6.13.10.3100
	GeForce2 Ti	GLADIAC 516TV-Out	6.13.10.3100
	GeForce4 MX 420	GLADIAC 517SV	6.13.10.3100
	GeForce4 Ti 4200	GLADIAC 525	6.13.10.3100
	GeForce3 Ti200	GLADIAC 721TV-Out	6.13.10.3100
	GeForce3 Ti500	GLADIAC 921 DVI	6.13.10.3100
	GeForce4 Ti 4600	GLADIAC 925ViVo	6.13.10.3100

8.2.1.2 8X AGP Display Adapter Products

Vendor	VGA Chip	Product Description	Driver version
FIC	ATI Radeon 9700	A97	6.13.10.6200
	ATI Radeon 9700 Pro	A97P	6.13.10.6200
Gigabyte	ATI Radeon 9700 Pro	MAYA II R9700 Pro	6.13.10.6200
Triplex	SiS Xabre 400	Xabre PRO	6.13.10.3030
ASUS	GeForce4 MX 440-8X	V9180	6.13.10.3140
ATI	ATI Radeon 9700 Pro	Radeon 9700 Pro	6.13.10.6200



8.2.2 SCSI Adapter Products

Test Configuration:

OS Ver Win XP + SP1 Ver: 2002
 Win 2000 + SP3 Ver: 5.00.2195

CPU AMD Athlon XP 2200+(1800MHz) AMD
Memory Apacer 512MB (Samsung) Total: 1000 MB PC2700 PC2100
VGA ELSA GLADIAC Pro Onboard AGP 4X
HDD IBM IC35L036UWD210 36GB Ultra II SCSI Ultra 160
CD-ROM Plextor PX-40Tsi 40X SCSI CD Ultra SCSI Ultra Wide
Sound Realtek ALC650 AC'97 PCI_Slot: On board
LAN VIA VT6103 (PHY) PCI_Slot: On board
Mouse Logitech MouseMan Mouse COM PS/2

The following PCI SCSI cards run CC Winstone 2002/Large files copy(over 500MB) under Windows XP/2000 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	PCI Slots
Adaptec	ASC-29160	Adaptec Ultra 160 PCI SCSI card 29160	1 ~ 6
	ASC-39160-PK	Adaptec Ultra 160 PCI SCSI card 39160-PK	1 ~ 6
Tekram	DC-390U3W	Tekram DC-390U3W PCI SCSI	1 ~ 6

8.2.3 PCI Modem Products

Test Configuration:

OS Ver Win XP + SP1 Ver: 2002

CPU AMD Athlon XP 2000+(1667MHz) AMD
Memory Micron 128MB(Micron) Total: 384 MB PC2700 PC2100
VGA ELSA GLADIAC Pro Onboard AGP 4X
HDD Maxtor 6L040J2 40GB ATA/100 ATA/133
Channel: PM PS SM SS
CD-ROM Ricoh MP5125A 8X IDE DVD-RW Channel: PPM PPS SSM SSS
Sound Realtek ALC650 AC'97 PCI_Slot: On board
LAN VIA VT6103 (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	Bus I/F
Askey	1456VQH75	PCI
	1456VQH-R4 INT1	PCI



8.2.4 PCI Audio Products

Test Configuration:

OS Ver Win XP + SP1 Ver: 2002
CPU AMD Athlon XP 2000+(1667MHz) AMD
Memory PQI 256MB(PQI) **Total:** 512 MB PC2700 PC2100
VGA ELSA GLADIAC Pro Onboard AGP 4X
HDD WD Caviar 1200JB 120GB ATA/100 ATA/133
CD-ROM Actima AD12H 12X IDE DVD **Channel:** PM PS SM SS
LAN VIA VT6103 (PHY) **Channel:** PM PS SM SS
Mouse Microsoft IntelliMouse PS/2 Mouse **PCI_Slot:** On board
 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-4860	Sound Blaster Live! Platinum
Everdata	YAMAHA 754	Orpheua Digital PCI Sound Card
Terratec	Crystal CS4624-CQ	DMX Xfire Soundsystem PCI



8.3 Storage

8.3.1 SCSI Peripheral Products

Test Configuration:

OS Ver Win XP + SP1 Ver: 2002

CPU AMD Athlon XP 2000+(1667MHz) AMD

Memory Transcend 256MB (Mosel) Total: 512 MB PC2700 PC2100

VGA ELSA GLADIAC Onboard AGP 4X

SCSI ASC-39160-PK Ultra160 Wide SCSI ISA PCI_Solt: 3.

LAN VIA VT6103 (PHY) PCI_Slot: . On board

Mouse Logitech First Mouse+ Mouse COM PS/2

The following SCSI devices run CC WinStone 2002 or copy large file(over 500MB) under Windows XP/2000 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	ST318437LW	Barracuda Ultra160 Wide 18GB
		ST39204LW	Cheetah Ultra160 Wide 9GB
		ST318406LW	Cheetah Ultra160 Wide 18GB
		ST318452LW	Cheetah Ultra160 Wide 18GB
		ST336706LW	Cheetah Ultra160 Wide 36GB
		ST336752LW	Cheetah Ultra160 Wide 36GB
	CD-ROM / CD-RW	Plextor	PX-40Tsi
Toshiba		XM-6210B	Ultra SCSI CD-ROM 32X
Panasonic		CR-508	SCSI-II CD-ROM 24X
		LF-D291	SCSI-II 4.7GB DVD-RAM
TEAC		CDR 56S	(24R6W) CD-RW 24X
		CD-532S	Ultra SCSI CD-ROM 32X
		CD-W512S-B82	(32R12W10RW) CD-RW
Nichimen		CDR-BP3N	(32R12W10RW) CD-RW 32X
Afreey	CD-2050S	Ultra SCSI CD-ROM 50X	
YAMAHA	CRW2100S	(40R16W10RW) CD-RW 40X	

**8.3.2 IDE Fixed Disk Drive Products****Test Configuration:**

OS Ver Win XP + SP1 Ver: 2002

CPU AMD Athlon XP 2200+(1800MHz) AMD

Memory Hynix 256MB (Hynix) Total: 512 MB PC2700 PC2100

VGA ASUS AGP-V8200 T2 Deluxe Onboard AGP 4X

CD-ROM Pioneer DVD-116 16X IDE DVD Channel: PM PS SM SS

Sound Realtek ALC650 AC'97 PCI_Slot: On board

LAN VIA VT6103 (PHY) PCI_Slot: On board

Mouse Logitech First Mouse+ Mouse COM PS/2

The following IDE devices test and WinStone 2001/Copy large files under Windows XP with VIA IDE Bus Master 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
Maxtor	52049H4	20.4GB
	53073H6	30.6GB
	34098H4	40.9GB
	54098H8	40.9GB
	4K040H2	40GB
	5T060H6	61GB
	98196H8	80GB
	4K080H4	80GB
	4W100H6	100GB
Seagate	ST330631A	30.6GB
	ST340016A	40GB
	ST340810A	40GB
	ST340824A	40GB
	ST380020A	80GB
	ST380021A	80GB
WD	Caviar WD400	40GB
	Caviar WD600	60GB
	Caviar WD800	80GB
	Caviar WD1000	100GB
	Caviar WD1200	120GB

IDE ATA/133

Vendor	Model Name	Capacity
Maxtor	6L040J2	40GB
	6L060J3	60GB
	6L080J4	80GB



4G160JB	160GB
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8.3.3 ATAPI CD-ROM /DVD-ROM Device Product

Test Configuration:

OS Ver	<input checked="" type="checkbox"/> Win XP + SP1	Ver: <u>2002</u>	
CPU	AMD Athlon XP 1800+(1533MHz)		<input checked="" type="checkbox"/> AMD
Memory	Transcend 256MB (Samsung)		Total: <u>512</u> MB <input type="checkbox"/> PC2700 <input checked="" type="checkbox"/> PC2100
VGA	ASUS AGP-V8200 T2 Deluxe		<input type="checkbox"/> Onboard <input checked="" type="checkbox"/> AGP 4X
HDD	Maxtor 6L080J4 80GB IDE		<input type="checkbox"/> ATA/100 <input checked="" type="checkbox"/> ATA/133
Sound	Realtek ALC650 AC'97		Channel: <input checked="" type="checkbox"/> PM <input type="checkbox"/> PS <input type="checkbox"/> SM <input type="checkbox"/> SS
LAN	VIA VT6103 (PHY)		<input type="checkbox"/> PCI_Slot: <u> </u> <input checked="" type="checkbox"/> On board
Mouse	Logitech TrackmanMarble Mouse		<input type="checkbox"/> PCI_Slot: <u> </u> <input checked="" type="checkbox"/> On board
			<input type="checkbox"/> COM <input checked="" type="checkbox"/> PS/2

The following IDE devices test play VCD or DVD under windows XP with VIA IDE Bus Master 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
Acer	650P	ATAPI CD-ROM 50X UDMA2
AOpen	CD-952E/AKH	ATAPI CD-ROM 52X UDMA2
LITE-ON	LTN-403L	ATAPI CD-ROM 40X UDMA2
	LTN-485S	ATAPI CD-ROM 48X UDMA2
Mitsumi	CRMC-FX4820T	ATAPI CD-ROM 48X Mode4
TEAC	CD-540E	ATAPI CD-ROM 40X Mode3
LG	CRD-8522B	ATAPI CD-ROM 52X Mode4
ASUS	CD-S500/A	ATAPI CD-ROM 50X UDMA2
Creative	CD4834E	ATAPI CD-ROM 48X UDMA2

8.3.3.2 ATAPI DVD-ROM:

Vendor	Model Name	Product Description
ASUS	DVD-E612	ATAPI DVD-ROM 12X
	DVD-E616	ATAPI DVD-ROM 16X
SONY	DDU1211	ATAPI DVD-ROM 12X
	DDU1621	ATAPI DVD-ROM 16X
Pioneer	DVD-115	ATAPI DVD-ROM 16X
	DVD-116/2	ATAPI DVD-ROM 16X (UDMA66)
	DVD-105S	ATAPI DVD-ROM 16X
	DVD-106S/2	ATAPI DVD-ROM 16X (UDMA66)



NEC	DV-5800A	ATAPI DVD-ROM 16X (UDMA33)
Panasonic	SR-8587-B	ATAPI DVD-ROM 16X
	LF-D211V	4.7GB DVD-RAM
Acer	DVP1640A	ATAPI DVD-ROM 16X
Creative	DVD1242E	ATAPI DVD-ROM 12X
LG	DRD-8120B	ATAPI DVD-ROM 12X
LITE-ON	LTD-122	ATAPI DVD-ROM 12X
	LTD-163	ATAPI DVD-ROM 16X
Afreey	DD-4010E	ATAPI DVD-ROM 10X



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 1900+(1600MHz)

Memory Apacer 512MB(Samsung)

HDD IBM DTLA-307045 45GB IDE

CD-ROM Creative DVD1242E 12X IDE DVD

VGA Visiontek Geforce3

Sound Realtek ALC650 AC'97

LAN VIA VT6103 (PHY)

Mouse Logitech TrackMan Marble Mouse

 AMDTotal: 512 MB PC2700 PC2100 ATA/100 ATA/133Channel: PM PS SM SSChannel: PM PS SM SS Onboard AGP 4X PCI_Slot: On board PCI_Slot: On board COM PS/2

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

Vendor	Product Description	Bus I/F
HP	LaserJet 6P	LPT/IR
	DeskJet 840c	LPT
	DeskJet 990cxi	LPT
	DeskJet 1220c	LPT
EPSON	Stylus Color 740	LPT
	Stylus Color 900	LPT
WACOM	Intuos Graphics Tablet	COM
ELSA	MicroLink 56K Internet Modem	COM
Logitech	WingMan Formula Force joystick	COM
Kodak	DC210 InfraRed/Serial port Digital camera	COM/IR
ACTisys	ACT-IR210L Receiver/Transceiver	IR



8.4.2 Mouse Products

Test Configuration:

OS Ver	<input checked="" type="checkbox"/> Win XP + SP1 Ver: <u>2002</u>	
CPU	AMD Athlon XP 1900+(1600MHz)	<input checked="" type="checkbox"/> AMD
Memory	Elixir 256MB (Elixir)	Total: <u>512 MB</u> <input type="checkbox"/> PC2700 <input checked="" type="checkbox"/> PC2100
HDD	WD Caviar 600BB 60GB IDE	<input checked="" type="checkbox"/> ATA/100 <input type="checkbox"/> ATA/133
CD-ROM	Panasonic SB-8587-B 16X IDE DVD	Channel: <input checked="" type="checkbox"/> PM <input type="checkbox"/> PS <input type="checkbox"/> SM <input type="checkbox"/> SS
VGA	ASUS V8420 Deluxe	Channel: <input type="checkbox"/> PM <input type="checkbox"/> PS <input checked="" type="checkbox"/> SM <input type="checkbox"/> SS
Sound	Realtek ALC650 AC'97	<input type="checkbox"/> Onboard <input checked="" type="checkbox"/> AGP 4X
LAN	VIA VT6103 (PHY)	<input type="checkbox"/> PCI_Slot: <u> </u> <input checked="" type="checkbox"/> On board
		<input type="checkbox"/> PCI_Slot: <u> </u> <input checked="" type="checkbox"/> On board

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

Vendor	Product Description	Bus I/F
Microsoft	Optical U/P Mouse (X05-48976)	USB/PS2
	Optical U/P Mouse (X06-25122)	USB/PS2
	Explorer 3.0 U/P Mouse (X06-25120)	USB/PS2
	TrackBall Explorer 1.0 U/P Mouse (X05-87473)	USB/PS2
Logitech	MouseMan (M-CV46)	COM/PS2
	MouseMan Dual Optical (M-BL63B)	COM/PS2
eMachines	M-S34 (Logitech)	PS2
Samsung	Cyber Beetle Mouse (Optical)	PS2
Genius	NetScroll Optical	PS2
	NetScroll+ Eye Optical	PS2
	NetScroll+ NB Eye Optical	USB/PS2
LEO	Niche-N202	PS2

8.4.3 USB Device Products

Test Configuration:

OS Ver	<input checked="" type="checkbox"/> Win XP + SP1 Ver: <u>2002</u>	
CPU	AMD Athlon XP 2000+(1667MHz)	<input checked="" type="checkbox"/> AMD
Memory	PQI 256MB(PQI)	Total: <u>512 MB</u> <input type="checkbox"/> PC2700 <input checked="" type="checkbox"/> PC2100
HDD	Maxtor 4K080H4 80GB IDE	<input checked="" type="checkbox"/> ATA/100 <input type="checkbox"/> ATA/133
CD-ROM	ASUS DVD-E616 16X IDE DVD	Channel: <input checked="" type="checkbox"/> PM <input type="checkbox"/> PS <input type="checkbox"/> SM <input type="checkbox"/> SS
VGA	Visiontek Geforce3	Channel: <input type="checkbox"/> PM <input type="checkbox"/> PS <input checked="" type="checkbox"/> SM <input type="checkbox"/> SS
Sound	Realtek ALC650 AC'97	<input type="checkbox"/> Onboard <input checked="" type="checkbox"/> AGP 4X
LAN	VIA VT6103 (PHY)	<input type="checkbox"/> PCI_Slot: <u> </u> <input checked="" type="checkbox"/> On board
Mouse	Logitech First Mouse+ Mouse	<input type="checkbox"/> PCI_Slot: <u> </u> <input checked="" type="checkbox"/> On board
		<input type="checkbox"/> COM <input checked="" type="checkbox"/> 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 (M-BB48)



		USB MouseMan Wheel (M-BA47)
		USB Wheel Mouse (Optical) (M-BD58)
		MouseMan Dual Optical (M-BL63B)
	Microsoft	IM Optical U/P Mouse (X05-48976)
		IM Optical U/P Mouse (X06-25122)
		IM Explorer 3.0 U/P Mouse (X06-25120)
		TrackBall Explorer U/P Mouse (X05-87473)
		Wireless Explorer USB Mouse (X08-12616)
HUB	Belkin	Express Bus F5U001
	SOHOUSB	Unique Energy Saving (4-Port USB Hub)
Camera	Intel	YC72
	Logitech	QuickCam Web Camera
Keyboard	BTC	8113W
	Microsoft	Natural Keyboard Pro
Printer	HP	DeskJet 840c
		DeskJet 990cxi
		DeskJet 1220c
	EPSON	Stylus Color 740
		Stylus Color 900
Scanner	EPSON	GT-7000
	HP	ScanJet 4200C
HDD	Vipower	VP-8058 Mobile USB Adapter
ZIP	iomega	ZIP 250
CD-RW	SONY	Spressa CD-ReWritable Recorder
FDD		Generic USB FDD
GamePad	Logitech	WingMan Extreme USB GamePad
	Microsoft	SideWinder Strategic Commander
	Microsoft	SideWinder Game Voice
Joystick	Logitech	WingMan Formula Force joystick
	Microsoft	SideWinder Precision 2

8.4.3.2 USB 2.0 Devices

Type	Vendor	Description
HUB	Hung	USB 2.0 Hi-Speed Hub
	ATEN	UH-204
HDD	Vipower	VP-8258 Mobile USB HDD Adapter
	Fujitsu	DYNA DISQ 20GB (MMA2200VB)
CD-R/RW	Plextor	PX-S88TU (24R8W8RW)
		PX-W2410TU (40R24W10RW)
	YAMAHA	CRW-70 (24R12W8RW)
Scanner	EPSON	Perfection 2450 Photo
MO	Fujitsu	DYNA MO 1300U2 (MDG3130UB)



8.5 Power Supply Products

Test Configuration:

OS Ver Win XP + SP1 Ver: 2002

CPU AMD Athlon XP 2100+(1733MHz)

Memory Hynix 256MB(Hynix)

HDD Maxtor 4D040K2 40GB IDE

CD-ROM ASUS DVD-E616 16X IDE DVD

VGA ELSA GLADIAC 925 ViVo

Sound Realtek ALC650 AC'97

LAN VIA VT6103 (PHY)

Mouse Logitech TrackMan Marble Mouse

 AMDTotal: 512 MB PC2700 PC2100 ATA/100 ATA/133Channel: PM PS SM SSChannel: PM PS SM SS Onboard AGP 4X PCI_Slot: On board PCI_Slot: On board COM PS/2

The following Power supply devices test Cool/Warm boot, restart and power management(S1/S3) under Windows XP with over 5 times.

Vendor	Product Description	Power	Input Voltage	Type
DELTA	DPS-250KB-3 A	250W	110/220	ATX
	DPS-300KB-1 A Rev:00	300W	110/220	ATX
Seventeam	ST-250BLV	250W	110/220	ATX
	ST-300BLV	300W	110/220	ATX
	ST-350GL	350W	110/220	ATX
	ST-400GL	400W	110/220	ATX
HIPRO	HP-300SN Rev:02	300W	110/220	ATX
TELTA	HI-300PB	300W	110/220	ATX
AOpen	FSP300-60GT	300W	110/220	ATX
FSP	FSP250-61GN(AMD)	250W	110/220	ATX
ENERMAX	EG301P-VE	300W	110/220	ATX
	EG365P-VE	350W	110/220	ATX
Seasonic	SS-300FS	300W	110/220	ATX
ICute	P4-3000TC v2.03	300W	110/220	ATX
L&C	LC-A250ATX	250W	110/220	ATX
Good Vision	XP-375X	375W	110/220	ATX
Green An	ENP-0735	350W	110/220	ATX
Adiance	PSIV-350-1 V2.03	350W	110/220	ATX
SD	SD-300W-12V	300W	110/220	ATX
HEC	HEC-300VD-T (P4)	300W	110/220	ATX
	HEC-350LD-T (P4)	350W	110/220	ATX
HOPELY	ATX-300SE-P4	300W	220	ATX
	ATX-300S	300W	220	ATX
Golden Field	ATX-310WB v2.03	300W	220	ATX
	ATX-320WB&P4	300W	220	ATX
????	ST-ATX325	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 98 SE:

Test Configuration:

CPU	AMD Athlon XP 2200+(1800MHz)	<input checked="" type="checkbox"/> AMD
Memory	KingMax 256MB(KingMax)	Total: 512 MB <input type="checkbox"/> PC1600 <input checked="" type="checkbox"/> PC2100
HDD	WD Caviar WD600BB 60GB IDE	<input type="checkbox"/> ATA/66 <input checked="" type="checkbox"/> ATA/100
VGA	Gainward 420T	Channel: <input checked="" type="checkbox"/> PM <input type="checkbox"/> PS <input type="checkbox"/> SM <input type="checkbox"/> SS
CD-ROM	NEC DV-5800A 16X IDE DVD	<input type="checkbox"/> Onboard <input checked="" type="checkbox"/> AGP 4X
Sound	Realtek ALC650 AC'97	Channel: <input type="checkbox"/> PM <input type="checkbox"/> PS <input checked="" type="checkbox"/> SM <input type="checkbox"/> SS
LAN	VIA VT6103 (PHY)	<input type="checkbox"/> PCI_Slot: __ <input checked="" type="checkbox"/> On board
Mouse	Microsoft IntelliMouse Mouse	<input type="checkbox"/> PCI_Slot: __ <input checked="" type="checkbox"/> On board
		<input type="checkbox"/> COM <input checked="" type="checkbox"/> PS/2

Test Item	Result	Remark
FDISK (FAT32)	PASS	
Format FDD	PASS	
FIC CD-PRO all M/B drivers Install & Test	PASS	
FIC CD-PRO all Application Install & Test	PASS	
CoreTest 92 (Transfer Rate test)	PASS	
Large file Copy from CD/DVD-ROM (Over 500MB)	PASS	
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Defrag test	PASS	
Install Office XP	PASS	
Auto Shutdown (system power off)	PASS	
DVD play (name: <i>Deep Blue Sea</i>)	PASS	
Power Management	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
S3 (Suspend To Memory)	Power button	PASS
	Keyboard Sleep Key (98keyboard)	PASS
	Start → Stand By item	PASS
	Time Out	PASS
System Shutdown	Power button (Setting from PM)	PASS
	Start → Shut down item	PASS
CC WinStone 2002	PASS	
3D Mark 2001 SE	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 98 SE	4.10.2222A	English	Microsoft	Pass



9.1.2 Microsoft Windows ME:

Test Configuration:

CPU	AMD Athlon XP 2200+(1800MHz)	<input checked="" type="checkbox"/> AMD
Memory	Apacer 256MB(Infineon)	Total: 512 MB <input type="checkbox"/> PC1600 <input checked="" type="checkbox"/> PC2100
HDD	IBM IC35L080A 81GB IDE	<input type="checkbox"/> PIO4 <input type="checkbox"/> ATA/66 <input checked="" type="checkbox"/> ATA/100
		Channel: <input checked="" type="checkbox"/> PM <input type="checkbox"/> PS <input type="checkbox"/> SM <input type="checkbox"/> SS
VGA	FIC AT009 (Radeon 90000)	<input type="checkbox"/> Onboard <input checked="" type="checkbox"/> AGP 4X
CD-ROM	SONY DDU1621 16X IDE DVD	Channel: <input type="checkbox"/> PM <input type="checkbox"/> PS <input checked="" type="checkbox"/> SM <input type="checkbox"/> SS
Sound	Realtek ALC650 AC'97	<input type="checkbox"/> PCI_Slot: __ <input checked="" type="checkbox"/> On board
LAN	VIA VT6103 (PHY)	<input type="checkbox"/> PCI_Slot: __ <input checked="" type="checkbox"/> On board
Mouse	Microsoft IntelliMouse Mouse	<input type="checkbox"/> COM <input checked="" type="checkbox"/> PS/2

Test	Item	Result	Remark
FDISK (FAT32)		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	
Large file Copy	from CD/DVD-ROM (Over 500MB)	PASS	
Install Office XP		PASS	
Defrag test		PASS	
DVD play	(name: <i>Deep Blue Sea</i>)	PASS	
Power Management (Stand By function)	Power button	PASS	
	Keyboard Sleep Key	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
S3 (Suspend To Memory)	Power button	PASS	
	Keyboard Sleep Key (98keyboard)	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	
CC WinStone 2002		PASS	
3D Mark 2001 SE		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



9.1.3 Microsoft Windows XP/Home Edition + Service Pack 1:

Test Configuration:

CPU	AMD Athlon XP 2200+(1800MHz)	<input checked="" type="checkbox"/> AMD
Memory	Apacer 512MB(Infineon)	Total: <u>1000</u> MB <input type="checkbox"/> PC1600 <input checked="" type="checkbox"/> PC2100
HDD	Maxtor 6L060J3 60GB IDE	<input type="checkbox"/> ATA/66 <input type="checkbox"/> ATA/100 <input checked="" type="checkbox"/> ATA/133
		Channel: <input checked="" type="checkbox"/> PM <input type="checkbox"/> PS <input type="checkbox"/> SM <input type="checkbox"/> SS
VGA	ELSA GLADIAC 925ViVo	<input type="checkbox"/> Onboard <input checked="" type="checkbox"/> AGP 4X
CD-ROM	Pioneer DVD-116 16X IDE DVD	Channel: <input type="checkbox"/> PM <input type="checkbox"/> PS <input checked="" type="checkbox"/> SM <input type="checkbox"/> SS
Sound	Realtek ALC650 AC'97	<input type="checkbox"/> PCI_Slot: __ <input checked="" type="checkbox"/> On board
LAN	VIA VT6103 (PHY)	<input type="checkbox"/> PCI_Slot: __ <input checked="" type="checkbox"/> On board
Mouse	Microsoft IntelliMouse Mouse	<input type="checkbox"/> COM <input checked="" type="checkbox"/> PS/2

Test Item	Result	Remark
Install Win XP with NTFS (boot from CD)	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	
Large file Copy from CD/DVD-ROM (Over 500MB)	PASS	
Install Office XP	PASS	
Defrag test	PASS	
DVD play (name: <i>Deep Blue Sea</i>)	PASS	
Power Management (Stand By function)	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
S3 (Suspend To Memory)	Power button	PASS
	Keyboard Sleep Key (98keyboard)	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	
CC WinStone 2002	PASS	
3D Mark 2001 SE	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 XP / Home Edition	2002	English	Microsoft	Pass
Windows XP Service Pack	1.0	English	Microsoft	Pass



9.1.4 Microsoft Windows 2000 + Service Pack 3:

Test Configuration:

CPU	AMD Athlon XP 2200+(1800MHz)	<input checked="" type="checkbox"/> AMD
Memory	Samsung 512MB(Samsung)	Total: <u>1000</u> MB <input type="checkbox"/> PC1600 <input checked="" type="checkbox"/> PC2100
HDD	WD Caviar WD1200BB 120GB IDE	<input type="checkbox"/> PIO4 <input type="checkbox"/> ATA/66 <input checked="" type="checkbox"/> ATA/100
VGA	ASUS V8440 Ultra/TD	Channel: <input checked="" type="checkbox"/> PM <input type="checkbox"/> PS <input type="checkbox"/> SM <input type="checkbox"/> SS
CD-ROM	Panasonic SR-8587-B 16X IDE DVD	<input type="checkbox"/> Onboard <input checked="" type="checkbox"/> AGP 4X
Sound	Realtek ALC650 AC'97	Channel: <input type="checkbox"/> PM <input type="checkbox"/> PS <input checked="" type="checkbox"/> SM <input type="checkbox"/> SS
LAN	VIA VT6103 (PHY)	<input type="checkbox"/> PCI_Slot: <u> </u> <input checked="" type="checkbox"/> On board
Mouse	Microsoft IntelliMouse Mouse	<input type="checkbox"/> PCI_Slot: <u> </u> <input checked="" type="checkbox"/> On board
		<input type="checkbox"/> COM <input checked="" type="checkbox"/> PS/2

Test Item	Result	Remark
Install Win 2000 with NTFS (boot from CD)	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 from CD/DVD-ROM (Over 500MB)	PASS	
Install Office XP	PASS	
DVD play (name: <i>Deep Blue Sea</i>)	PASS	
Power Management (Stand By function)	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
S3 (Suspend To Memory)	Power button	PASS
	Keyboard Sleep Key (98keyboard)	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	
CC WinStone 2002	PASS	
3D Mark 2001 SE	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
Windows 2000 Service Pack	3.0	English	Microsoft	Pass

10. Onboard Function Test Suite

10.1 Serial ATA:

10.1.1 RAID 0:

Test Configuration:

OS Ver Win XP + SP1 Ver: 2002



CPU	AMD Athlon XP 2200+(1800MHz)	<input checked="" type="checkbox"/> AMD
Memory	Apacer 256MB(Nanya)	Total: 512 MB <input type="checkbox"/> PC1600 <input checked="" type="checkbox"/> PC2100
HDD1	Seagate ST-330013AS 30GB	<input checked="" type="checkbox"/> S_ATA1 <input type="checkbox"/> S_ATA2
HDD2	Seagate ST-330013AS 30GB	<input type="checkbox"/> S_ATA1 <input checked="" type="checkbox"/> S_ATA2
CD-ROM	AOpen DVD1648A 16X IDE DVD	Channel: <input type="checkbox"/> PMP <input type="checkbox"/> PPS <input checked="" type="checkbox"/> SM <input type="checkbox"/> SS
VGA	ELSA GLADIAC 920	<input type="checkbox"/> Onboard <input checked="" type="checkbox"/> AGP 4X
Sound	Realtek ALC650 AC'97	<input type="checkbox"/> PCI_Slot: __ <input checked="" type="checkbox"/> On board
LAN	VIA VT6103 (PHY)	<input type="checkbox"/> PCI_Slot: __ <input checked="" type="checkbox"/> On board
Mouse	Microsoft IntelliMouse Mouse	<input type="checkbox"/> COM <input checked="" type="checkbox"/> PS/2

Test Item	Result	Remark
Operation system install (NTFS)	PASS	
ZD WinBench 99 V2.0	Business Disk WinMark	PASS
	High-End Disk WinMark	PASS
3D Mark 2001 SE	PASS	
CC WinStone 2002 v1.0.1	PASS	
Large file Copy from DVD-ROM (Over 500MB)	PASS	
RAID 0 Function Test	PASS	

**10.1.2 RAID 1:****Test Configuration:**

OS Ver Win XP + SP1 Ver: 2002

CPU AMD Athlon XP 2200+(1800MHz) AMD

Memory Apacer 256MB(Nanya) Total: 512 MB PC1600 PC2100

HDD1 Seagate ST-330013AS 30GB S_ATA1 S_ATA2

HDD2 Seagate ST-330013AS 30GB S_ATA1 S_ATA2

CD-ROM AOpen DVD1648A 16X IDE DVD Channel: PMP PPS SM SS

VGA ELSA GLADIAC 920 Onboard AGP 4X

Sound Realtek ALC650 AC'97 PCI_Slot: On board

LAN VIA VT6103 (PHY) PCI_Slot: On board

Mouse Microsoft IntelliMouse Mouse COM PS/2

Test Item	Result	Remark
Operation system install (NTFS)	PASS	
ZD WinBench 99 V2.0	Business Disk WinMark	PASS
	High-End Disk WinMark	PASS
3D Mark 2001 SE	PASS	
CC WinStone 2002 v1.0.1	PASS	
Large file Copy from DVD-ROM (Over 500MB)	PASS	
RAID 1 Function Test	PASS	



10.2 Realtek ALC650 AC'97 Codec Audio:

Test Configuration:

OS Ver	<input checked="" type="checkbox"/> Win XP + SP1	Ver: <u>2002</u>	
CPU	AMD Athlon XP 2200+(1800MHz)		<input checked="" type="checkbox"/> AMD
Memory	KingMax 256MB(KingMax)	Total: <u>512</u> MB	<input type="checkbox"/> PC1600 <input checked="" type="checkbox"/> PC2100
HDD	Maxtor 5T060H6 60GB IDE	<input type="checkbox"/> ATA/66	<input checked="" type="checkbox"/> ATA/100
		Channel: <input checked="" type="checkbox"/> PM <input type="checkbox"/> PS <input type="checkbox"/> SM <input type="checkbox"/> SS	
CD-ROM	Actima AD16H 16X IDE DVD	Channel: <input type="checkbox"/> PM <input type="checkbox"/> PS <input checked="" type="checkbox"/> SM <input type="checkbox"/> SS	
VGA	ELSA GLADIAC Pro	<input type="checkbox"/> Onboard	<input checked="" type="checkbox"/> AGP 4X
Sound	Realtek ALC650 AC'97	<input type="checkbox"/> PCI_Slot: <u> </u>	<input checked="" type="checkbox"/> On board
LAN	VIA VT6103 (PHY)	<input type="checkbox"/> PCI_Slot: <u> </u>	<input checked="" type="checkbox"/> On board
Mouse	Logitech First Mouse+ Mouse	<input type="checkbox"/> COM	<input checked="" type="checkbox"/> PS/2

Test Item		Result	Remark
Audio driver install		PASS	
Audio play	WAV/MP3 files	PASS	
	MIDI files	PASS	
	Music CD	PASS	
Sound adjust volume control		PASS	
CD-IN connector		PASS	
Rear Panel	Lin-Out	PASS	
	Lin-In	PASS	
	MIC	PASS	
Record	CD-IN	PASS	
	Lin-In	PASS	
	MIC	PASS	
ACPI Function	S1	PASS	
	S3(STR)	PASS	
	S4(STD) Hibernate	PASS	
5.1 CH output (Sharing)	Front L/R	PASS	
	Rear L/R	PASS	
	Center/BASS	PASS	
VCD play	2 CH audio output	PASS	
	5.1 CH audio output	PASS	
DVD play	2 CH audio output	PASS	
	5.1 CH audio output	PASS	
Audio Quality (2CH/5.1 CH)		PASS	



Test Engineer:

BIOS: *Benson Shen*

OS: *Kai Dane*

I/O : *Leon Liang*

Audio: *Lion Liou*

CPU: *Stevent Huang*

VGA: *Scott Lin*

Memory: *Kevin Lin*

IDE Devices: *Kai Dane*

Check by: *Lion Liou*

Ownership: *Benson Shen*