

FIC VI31 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

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Supervisor	Tester

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Revision History

Document Release	Date	Change Item	ECN
Revision 1.00	4/11/2002	Initial Release.	
Revision 1.01	8/20/2002	BIOS update version to SAC42 Add support Intel Celeron 1.7/1.8/1.9GHz CPU .	M01A03-E-017



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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 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 : VI31 PCB Rev 2.3
Product Name : SiS 650 Based Mainboard
System BIOS : Award BIOS Version SAC42
PCI IDE : Internal PCI Mastre dual IDE
LPC : ITE IT8705F

3. Mainboard CPU Supports:

Intel : (Celeron)

Intel Processors	FSB	Package	Status
Celeron 1.7GHz	400	FC-PGA2	Pass
Celeron 1.8GHz	400	FC-PGA2	Pass
Celeron 1.9GHz	400	FC-PGA2	Pass

Intel : (Willamette)

Intel Processors	FSB	Package	Status
Pentium 4 1.4GHz	400	FC-PGA2	Pass
Pentium 4 1.5GHz	400	FC-PGA2	Pass
Pentium 4 1.6GHz	400	FC-PGA2	Pass
Pentium 4 1.7GHz	400	FC-PGA2	Pass
Pentium 4 1.8GHz	400	FC-PGA2	Pass
Pentium 4 1.9GHz	400	FC-PGA2	Pass
Pentium 4 2.0GHz	400	FC-PGA2	Pass

Intel : (Northwood)

Intel Processors	FSB	Package	Status
Pentium 4 1.6GHz	400	FC-PGA2	Pass
Pentium 4 1.8GHz	400	FC-PGA2	Pass
Pentium 4 2.0GHz	400	FC-PGA2	Pass
Pentium 4 2.2GHz	400	FC-PGA2	Pass
Pentium 4 2.4GHz	400	FC-PGA2	Pass

4. System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	SiS 650 + 961A
System Cache	256/512K Pipeline Burst SRAM Built-in CPU
System Memory	Maximum : 2GB DDR DRAM
	184 pins single RAS and Double RAS DDR SDRAM Module
System Slots	1 AGP and 3 PCI slots
Audio	Realtek ALC201 AC'97 Audio codec
LAN (Option)	Realtek RTL8100BL 10/100 LAN Chip Onboard
LPC	ITE IT8705F Support Normal,EPP,ECP mode and IR interface

4.1 Main Functionality :

Num.	M/B function		Result
1	ACPI Ready (support S0/S1/S3/S4/S5)		PASS
2	Wake On LAN / Wake On Ring		PASS
3	RTC Alarm Function		PASS
4	NOVUS II	LogoGenie	PASS
		BIOS Easy Kit	PASS
		BIOS Flash Protect (Guardian feature)	PASS
5	Ultra ATA-33/66/100 Enhanced IDE Interface		PASS
6	Onboard Realtek ALC201 AC'97 Audio		PASS
7	Onboard Realtek RTL8100BL LAN		PASS
8	USB 1.1 Function (Front/Rear)		PASS
9	Power Failure feature		PASS
10	Year 2000 Compliance		PASS

4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	SiS 650 Video driver for Win 9x/NT/ME/2000	2.06	PASS
2	SiS Graphic Port Driver	1.09	PASS
3	ALC201 codec driver for Win 9x/ME/2000/XP	5.10.00.3830	PASS
4	ALC201 codec driver for Win NT	4.03.00.3026	PASS
5	Realtek RTL8100BL LAN driver for Win 9x/ME/2000/XP	3.97	PASS
6	Award BIOS Flash ROM Utilities	8.10b	PASS

5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPK	Open	Pass
Power LED (Single color-3 pin)	Power_LED	Open	Pass
Power LED (Single color-2 pin)	PW_LED	Open	Pass
Power LED (Dual color)	LED_G/LED_Y	Open	Pass
IDE LED Connector	HD_LED	Open	Pass
Reset Switch	RST	Open	Pass
Remote Power Switch	PW_SW	Open	Pass
Sleep Switch	SP_SW	Open	Pass
CPU FAN Connector	CPU_FAN	Open	Pass
Chassis FAN Connector	SYS_FAN	Open	Pass
Clear CMOS	CLR_CMOS	1-2	Pass
Clear Password	CLR_Password	1-2	Pass
IR interface	IRRX/IRTX	Open	Pass

6. Stability Test

6.1 CPU Over Clock Test:

System Configuration	
CPU : Intel P4 2.0GHz (Northwood)	FDD : NEC FD1231T 1.44MB
Cache Memory : 512KB	Audio : Onboard Realtek ALC201 AC'97
Memory : SEC DDR266 256MB X 2	LAN : Onboard Realtek 8100BL
HDD (ATA/133) : Maxtor 6L060J3 60GB	Mouse : Microsoft PS/2 mouse
VGA : Onboard SiS650 AGP	PowerSupply : Delta DPS-300KB ATX 300W
DVD-ROM : ASUS DVD-E616 16X DVD	O.S. Environment: Windows XP/Home Edition

NO.	Over clock level		Test Result				
	FSB	CPU ID	Cool boot	Install OS	S3	Winstone 2001	3D Mark2001
1	105MHz	2.10GHz	Pass	Pass	Pass	48.8	1164
2	108MHz	2.16GHz	Pass	Pass	Pass	51.1	1200

6.2 Stress Test:

System Configuration	
CPU : Intel P4 1.9GHz(Willamette)	FDD : NEC FD1231T 1.44MB
Cache Memory : 256 K	Audio : Onboard ALC201 AC'97 Audio
Memory : DDR DRAM 1GB (512MBx2)	LAN : Onboard Realtek 8100BL
HDD 1 : Maxtor 52049H4 20.4GB	Mouse : Microsoft PS/2 mouse
HDD2 : Maxtor 91531U3 15.3GB	PowerSupply : Delta DPS-300KB ATX 300W
DVD-ROM : Actima AD10S 10X DVD	O.S. Environment: Windows 2000
ZIP : Iomage ZIP100	
VGA : Onboard SiS650 AGP	

Test Result						
BIOS detect	Install OS	All driver install	PM	CC WS 2002	Stress burn in	DVD/VCD play
Pass	Pass	Pass	Pass	Pass	Pass	Pass

6.3 PCB Cool Boot Test: (12 hours)

System Configuration	
CPU : Intel P4 1.8GHz(Willamette)	FDD : NEC FD1231T 1.44MB
Cache Memory : 256 K	PowerSupply : Green An ATX-1125BTA 300W
Memory : DDR DRAM 512MB(256MBx2)	
VGA : Onboard SiS650 AGP	

Test Result	
Cool Boot (over 700 times)	Pass

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

Software Name	Duration	Result
CC Winstone 2002 Under WIN XP	12hr.	<i>Pass</i>
Test Configurations for Win XP	Intel Pentium 4 1.9GHz (Willamette) WD Caviar WD1000 ATA/100 100GB HDD Apacer 256MB DDR DRAM Memory.(Nanya) X 2 Onboard SiS650 AGP	
CC Winstone 2002 Under WIN ME	12hr.	<i>Pass</i>
Test Configurations for Windows ME	Intel Pentium 4 2.0GHz (Northwood) Maxtor 6L060J3 ATA/133 60GB HDD KingSton 256MB DDR DRAM Memory.(Nanya) X 2 Onboard SiS650 AGP	

8. Hardware Compatibility Test Suite

8.1 Memory

Test Configuration:

OS Ver ☒ Win XP Ver: 2002
☒ Win 2000 Ver: 5.00.2195
CPU Intel Pentium 4 1.9GHz(Willamette) ☒ Intel
HDD Maxtor 4W100H6 100GB IDE ☒ ATA/66 ☒ ATA/100
Channel: ☒ PM ☒ PS ☒ SM ☒ SS
☒ Onboard ☒ AGP 4X
VGA SiS 650 AGP Channel: ☒ PM ☒ PS ☒ SM ☒ SS
CD-ROM Pioneer DVD-116 16X DVD ☒ PCI Slot: ☒ On board
Sound ALC201 AC'97 ☒ COM ☒ PS/2
Mouse Microsoft IntelliMouse PS/2 Mouse

The following PC2100 DDR DRAM module test Winstone 2001/Copy large files(over 500MB)/ 3D Mark 2001 under Windows XP/2000 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.

8.1.3 DDR DRAM Module (DDR266/PC2100)

Vender	IC Part No.	Size	Side	Module No.
Micron	MT46V8M8-75	128MB	D	MT16VDDT1664AG-265A2
	MT46V16M8-75A	128MB	S	MT8VDDT1664AG-265A1
	MT46V16M8-75A	256MB	D	MT16VDDT3264AG-265A1
	MT46V32M8-75	512MB	D	MT16VDDT6464AG-265B1
SEC	K4H281638B-TCA2	128MB	D	M368L1714BT1-CA2
	K4H280838B-TCB0	256MB	D	M368L3313BT1-CB0
	K4H560838B-TCB0	512MB	D	M368L6423BT1-CB0Q0
Apacer	K4H280838B-TCB0 (SEC)	128MB	D	77.10304.460
	K4H280838B-TCB0 (SEC)	256MB	D	77.10204.460
	NT5DS16M8AT-7K (Nayna)	256MB	D	77.10203.540
Buffalo	K4H280838B-TCB0 (SEC)	256MB	D	DD266-256M
Crucial	MT46V16M8-75A (Micron)	128MB	S	CT1672Z265.9T
	MT46V16M8-75A (Micron)	256MB	D	CT3272Z265.18T
Hynix	HY5DU28822AT-H (Hyundai)	256MB	D	HYMD132645 A8-H
KingMax	KDL684T4A2A-07A	128MB	S	MPDA82D-68KX2
	KDL684T4A2A-07A	256MB	D	MPDB62D-68KX2
Transend	NT5DS16M8AT-7K (Nanya)	128MB	S	TS16MLD64V6D5
	NT5DS16M8AT-7K (Nanya)	256MB	D	TS32MLD64V6D5
	K4H280838B-TCB0 (SEC)	256MB	D	TS32MLD64V6D5
	MT46V16M8-75A (Micron)	256MB	D	T32MLD64V6D5
	W942508AH-75 (Winbond)	512MB	D	
Infineon	HYB25D256800AT-7	256MB	D	HYS64D32000GU-7-A
	HYB25D256800AT-7	512MB	D	HYS64D64020GU-7-A
Kingston	NT5DS16M8AT-7K (Nanya)	256MB	D	KVR266X64C25/256

8.1.2 DDR DRAM Module (DDR300/PC2400)

Vender	IC Part No.	Size	Side	Module No.
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KingMax	KDL684T4A2A-06	256MB	D	MPLB62D-68KX3
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8.1.3 DDR DRAM Module (DDR333/PC2700)

Vender	IC Part No.	Size	Side	Module No.
KingMax	KDL684T4A2A-05	128MB	S	MPMA82D-68KX3
	KDL684T4A2A-05	256MB	D	MPMB62D-68KX3
SEC	K4H560838C-TCB3	256MB	S	M368L3223CTL-CB3

8.2 Add-on Cards

8.2.1 Display Adapter Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002

CPU Intel Pentium 4 2.0GHz (Northwood) ☒ Intel

HDD IBM IC35L040A 40GB IDE ☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

Memory Transend 256MB(Samsung)

Total: 512 MB ☐ PC1600 ☒ PC2100

CD-ROM Pioneer DVD-115 16X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Sound ALC201 AC'97

☐ PCI Slot: ☒ On board

Mouse Logitech MouseMan Mouse

☐ COM ☒ 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 16bit colors, resolution refresh rate of 85Hz, small font.

4X AGP Display Adapter Products

Vendor	Model Name	Product Description	Driver version
Leadtek	Riva Geforce3	WinFast Geforce3	5.13.01.2183
	GeForce4 MX 400	A170 DDR	6.13.10.2720
Matrox	MGA-G450	Millennium G450	5.12.01.1220
Top Solution	SiS 315 + 301	3D Thriller	6.13.10.2040
ATI	Radeon VE	Radeon VE	6.13.3276
	Radeon	All-In-Wonder Radeon	6.13.3276
	Radeon 7500	Radeon 7500	6.13.01.6015
	Radeon 8500 LE	Radeon 8500 LE	6.13.01.6015
FIC	ATI Radeon 7500	AT008V	6.13.01.6015
	ATI Radeon 8500 LE	AT008-250	6.13.01.6015
	ATI Radeon 8500	AT008-275	6.13.01.6015
ASUS	Riva GeForce2 GTS	AGP-V7700 Deluxe	5.13.01.2181
	GeForce2 Ti200	AGP-V7700 TI	5.13.01.2181
	Riva GeForce3	AGP-V8200 Deluxe	5.13.01.2181
	GeForce3 Ti200	AGP-V8200 T2 Deluxe	5.13.01.2181

	GeForce3 Ti500	AGP-V8200 T5 Deluxe	5.13.01.2181
	GeForce4 MX 400	AGP-V8170 DDR	6.13.10.2720
Visiontek	Riva Geforce3	Geforce3 (TV out)	6.13.10.2311
Gainward	GeForce3 Ti200	GeForce3 PowerPack !!!	6.13.10.2311
ELSA	Riva Geforce2 Ultra	GLADIAC Ultra	6.13.10.2311
	Riva Geforce2 GTS Pro	GLADIAC Pro	6.13.10.2311
	GeForce2 MX 200	GLADIAC 311	6.13.10.2311
	GeForce2 MX 400	GLADIAC 511	6.13.10.2311
	GeForce3	GLADIAC 920	6.13.10.2311
	GeForce2 Ti	GLADIAC 516TV-Out	6.13.10.2311
	GeForce3 Ti200	GLADIAC 721TV-Out	6.13.10.2311
	GeForce3 Ti500	GLADIAC 921 DVI	6.13.10.2311

8.2.2 SCSI Adapter Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002 .
☒ Win 2000 Ver: 5.00.2195 .
CPU Intel Pentium 4 2.0GHz(Northwood) ☒ Intel
Memory KingSton 256MB (Nanya) **Total: 512 MB** ☐ PC1600 ☒ PC2100
VGA SiS 650 AGP ☒ Onboard ☐ AGP 4X
HDD IBM DDYS-36950 36.7GB ☐ Ultra II SCSI ☒ Ultra Wide
CD-ROM Afreedy CD-2050S 50X SCSI CD-ROM ☒ Ultra SCSI ☐ Ultra Wide
Sound ALC201 AC'97 ☐ PCI_Slot:___ ☒ On board
LAN Realtek RTL8100BL ☐ PCI_Slot:___ ☒ On board
Mouse Logitech MouseMan Mouse ☐ COM ☒ PS/2

The following PCI SCSI cards run Winstone 2001/Copy large files(over 500MB) under Windows XP/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
Adaptec	AHA-2940U2W	Adaptec AHA-2940U2W PCI SCSI card	PCI
	ASC-19160	Adaptec Ultra 160 PCI SCSI card 19160	PCI
	ASC-29160N	Adaptec ASC-29160N PCI SCSI card	PCI
	ASC-29160	Adaptec Ultra 160 PCI SCSI card 29160	PCI
	ASC-39160	Adaptec Ultra 160 PCI SCSI card 39160	PCI
Tekram	DC-390U/F/W	Tekram DC-390U/F/W PCI SCSI	PCI
	DC-390U2W	Tekram DC-390U2W PCI SCSI	PCI
	DC-390U3W	Tekram DC-390U3W PCI SCSI	PCI

8.2.3 PCI IDE RAID Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002.
CPU Intel Pentium 4 1.9GHz(Willamette) ☒ Intel
Memory SEC 128MB(SEC) **Total:** 256 MB ☐ PC1600 ☒ PC2100
VGA SiS 650 AGP ☒ Onboard ☐ AGP 4X
HDD1 IBM DTLA-307020 20GB IDE ☐ ATA/66 ☒ ATA/100
HDD2 IBM DTLA-307030 30GB IDE ☐ ATA/66 ☒ ATA/100
CD-ROM NEC DV-5800A 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound ALC201 AC'97 ☐ PCI_Slot:___ ☒ On board
LAN Realtek RTL8100BL ☐ PCI_Slot:___ ☒ On board
Mouse Microsoft IntelliMouse PS/2 Mouse ☐ COM ☒ PS/2

The following PCI RAID card test RAID 0/1 under Windows XP with their respective drivers installed.

Vendor	Product Description	Chip
Promise	Fast TRAK100 ATA RAID Controller Card	PROMISE PDC20267

8.3 Storage

8.3.1 SCSI Peripheral Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002.
☒ Win 2000 Ver: 5.00.2195.
CPU Intel Pentium 4 2.0GHz(Northwood) ☒ Intel
Memory Transend 256MB (Samsung) **Total:** 512 MB ☐ PC1600 ☒ PC2100
VGA SiS 650 AGP ☒ Onboard ☐ AGP 4X

SCSI Adaptec ASC-29160N Ultra160 **ISA** ☒ **PCI_Solt:** 2
Sound ALC201 AC'97 **PCI_Slot:** ☒ **On board**
Mouse Logitech First Mouse+ Mouse **COM** ☒ **PS/2**

The following SCSI devices test and WinStone 2001/Copy large files(over 500MB) under Windows XP/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.

ITEM	Vendor	Model Name	Product Description
Hard Disk	IBM	COMP IEC-950	Ultra2 Wide 9.1GB
		COMP IEC-950	Ultra2 Wide 36GB
		DDRS-39130	UltraII SCSI HDD 9.1GB
		DDYS-T36950	Ultra2 Wide 36.7GB
	Seagate	ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST39236LW	Barracuda Ultra160 Wide 9GB
		ST318436LW	Barracuda Ultra160 Wide 18GB
		ST39204LW	Cheetah Ultra160 Wide 9GB
		ST318404LW	Cheetah Ultra160 Wide 18GB
	Quantum	Fireball SE	Ultra SCSI HDD 8.4GB
		Atlas III	Ultra2 SCSI HDD 9.1GB
		Atlas V	Ultra Wide 18GB
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
	TEAC	CD-532S	Ultra SCSI CD-ROM 32X
	Afreedy	CD-2050S	Ultra SCSI CD-ROM 50X
	TEAC	CDR 56S	CD-RW 24X (24R6W)
	Nichimen	CDR-BP3N	CD-RW 32X (32R12W10RW)
	Plextor	PX-W124Tsi	CD-RW 32X (12W/4RW/32R)

8.3.2 IDE Fixed Disk Drive Products

Test Configuration:

OS Ver ☒ **Win XP Ver:** 2002
☒ **Win 2000 Ver:** 5.00.2195
CPU Intel Pentium 4 1.9GHz(Willamette) ☒ **Intel**
Memory Crucial 256MB (Micron) **Total:** 512 MB ☒ **PC1600** ☒ **PC2100**
VGA SiS 650 AGP ☒ **Onboard** ☒ **AGP 4X**

CD-ROM Lite-On LTD-163 16X IDE DVD
Sound ALC201 AC'97
LAN Realtek RTL8100BL
Mouse Logitech First Mouse+ Mouse

Channel: ☐PM ☐PS ☒SM ☐SS
☐PCI_Slot: ☐ On board
☐PCI_Slot: ☒ On board
☐COM ☒PS/2

The following IDE devices test and WinStone 2001/Copy large files(over 500MB) under Windows XP/2000 with OS default drivers installed and set to the follow condition 1024 x 768 x 16bit 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	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 WD300	30GB
	Caviar WD400	40GB
	Caviar WD600	60GB
	Caviar WD800	80GB
	Caviar WD1000	100GB
	Caviar WD1200	120GB
Samsung	SV3063H	30.6GB
	SV4084H	40.8GB

IDE ATA/133

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

*SiS 961A South Bridge doesn't support ATA/133 transfer mode, so these ATA/133 HDD run ATA/100.

8.3.3 ATAPI CD-ROM /DVD-ROM Device Product

Test Configuration:

OS Ver ☒ Win XP Ver: 2002
CPU Intel Pentium 4 1.9GHz(Willamette) ☒ Intel
Memory Samsung 128MB (Samsung) **Total:** 256 MB ☐ PC1600 ☒ PC2100
VGA SiS 650 AGP ☒ Onboard ☐ AGP 4X
HDD WD Caviar WD800 80GB IDE ☐ ATA/66 ☒ ATA/100
Sound ALC201 AC'97 **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
LAN Realtek RTL8100BL ☐ PCI_Slot: ☒ On board
Mouse Logitech TrackmanMarble Mouse ☐ PCI_Slot: ☒ On board
☐ COM ☒ PS/2

The following IDE devices test 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 16bit colors, resolution refresh rate of 85Hz, small font.

8.3.3.1 ATAPI CD-ROM:

Vendor	Model Name	Product Description
LITE-ON	LTN-403L	ATAPI CD-ROM 40X UDMA2
	LTN-485S	ATAPI CD-ROM 48X UDMA2
Acer	650P	ATAPI CD-ROM 50X UDMA2
AOpen	CD-952E/AKH	ATAPI CD-ROM 52X UDMA2
BTC	BCD 48SB	ATAPI CD-ROM 48X UDMA2
Creative	CD4834E	ATAPI CD-ROM 48X Mode4
	CD5220E	ATAPI CD-ROM 52X Mode4
ASUS	CD-S500/A	ATAPI CD-ROM 50X UDMA2
Mitsumi	CRMC-FX4820T	ATAPI CD-ROM 48X Mode4
Pioneer	DR-744	ATAPI CD-ROM 36X Mode4
LG	CRD-8522B	ATAPI CD-ROM 52X Mode4

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-105S	ATAPI DVD-ROM 16X

	DVD-106S/2	ATAPI DVD-ROM 16X (UDMA66)
Actima	AD16H	ATAPI DVD-ROM 16X
Panasonic	SR-8587-B	ATAPI DVD-ROM 16X
	LF-D211V	4.7GB DVD-RAM
Afreey	DD-4010E	ATAPI DVD-ROM 10X
Creative	DVD1242E	ATAPI DVD-ROM 12X
LG	DRD-8120B	ATAPI DVD-ROM 12X
NEC	DV-5700B	ATAPI DVD-ROM 12X (UDMA33)
	DV-5800A	ATAPI DVD-ROM 16X (UDMA33)
Lite-On	LTD-122	ATAPI DVD-ROM 12X
	LTD-163	ATAPI DVD-ROM 16X

8.4 Peripherals

8.4.1 Parallel/Serial Port Products (Including IR)

Test Configuration:

OS Ver ☒ Win XP **Ver:** 2002
CPU Intel Pentium 4 1.9GHz(Willamette) ☒ Intel
Memory Apacer 128MB(Samsung) **Total:** 256 MB ☐ PC1600 ☒ PC2100
HDD Maxtor 54098H8 40.9GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM ASUS DVD-E612 12X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA SiS 650 AGP ☒ Onboard ☐ AGP 4X
Sound ALC201 AC'97 ☐ PCI_Slot: ☒ On board
LAN Realtek RTL8100BL ☐ PCI_Slot: ☒ On board
Mouse Logitech TrackMan Marble Mouse ☐ COM ☒ PS/2

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

Vendor	Product Description	Bus I/F
Mustek	Plug-N-Scan 1200CP EPP Scanner	LPT
Iomega	Parallel ZIP250	LPT
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	COM
Logitech	WingMan Formula Force joystick	COM
Kodak	DC210 InfraRed/Serial port Digital camera	COM
ACTisys	ACT-IR210L Receiver/Transceiver	IR

8.4.2 Mouse Products

Test Configuration:

OS Ver ☒ Win XP **Ver:** 2002
CPU Intel Pentium 4 2.2GHz(Northwood) ☒ Intel
Memory Transcend 128MB (Nanya) **Total:** 256 MB ☐ PC1600 ☒ PC2100
HDD WD Caviar WD300 30GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM Creative DVD1242E 12X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA SiS 650 AGP ☒ Onboard ☐ AGP 4X
Sound ALC201 AC'97 ☐ PCI_Slot: ☒ 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	Logitech MouseMan Serial Mouse	Serial/ PS2
	Logitech First Mouse+ Serial Mouse	Serial/ PS2
eMachines	M-S34 (Logitech)	PS2
Samsung	Cyber Beetle Mouse (Optical)	PS2
Genius	NetScroll Optical	PS2
LEO	Niche-N202	PS2

8.4.3 USB Device Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002
CPU Intel Pentium 4 1.8GHz(Willamette) ☒ Intel
Memory Transend 128MB(Micron) **Total:** 256 MB ☐ PC1600 ☒ PC2100
HDD WD Caviar WD300 30GB IDE ☐ ATA/66 ☒ ATA/100
CD-ROM Creative DVD1242E 12X IDE DVD **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
VGA SiS 650 AGP **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound ALC201 AC'97 ☒ Onboard ☐ AGP 4X
Mouse Logitech First Mouse+ Mouse ☐ PCI_Slot: ☒ On board
☐ COM ☒ PS/2

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

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)
	Cypress	7-895 Mouse
HUB	Belkin	Express Bus F5U001
	SOHOUSB	Unique Energy Saving (4-Port USB Hub)
Camera	Intel	YC72

Keyboard	Kodak	DVC323
	IBM	XVP610
	BTC	8113W
	Jetime	ACK-298H
	Microsoft	Natural Keyboard Pro
Printer	HP	DeskJet 840c
		DeskJet 990cxi
		DeskJet 1220c
	EPSON	Stylus Color 740
		Stylus Color 900
Scanner	EPSON	GT-7000
		Perfection 2450 Photo
	HP	ScanJet 4200C
Ethernet	CATC	USB Ethernet Link
Speaker	YAMAHA	YST-MS35D
MO	OLYMPUS	Turbo MO MINI (MOS3390S)
HDD (Adapter)	Vipower	VP-8058 Mobile USB Adapter
		VP-8258 Mobile USB Adapter
ZIP	iomega	ZIP 250
CD-RW	Vipower	VP-8258 Mobile USB Adapter(DVD)
	SONY	Spessa CD-ReWritable Recorder
	Plextor	PX-S88TU (24R8W8RW)
	YAMAHA	CRW-70 (24R12W8RW)
FDD		Generic USB FDD
Flash H_Disk	TREK	ThumbDrive USB Flash Hard Disk
GamePad	Creative	Cobra USB GamePad
	Logitech	WingMan Extreme USB GamePad
	Microsoft	SideWinder Strategic Commander
		SideWinder Game Voice
Joystick	Logitech	WingMan Formula Force joystick
	Microsoft	SideWinder Precision 2

8.4.4 Game Port Device Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002

CPU Intel Pentium 4 1.8GHz(Willamette) ☒ Intel

Memory Transcend 256MB (Nanya)

HDD WD Caviar WD300 30GB IDE

CD-ROM ASUS CD-S500/A 50X IDE

VGA SiS 650 AGP

Sound ALC201 AC'97

Mouse Logitech First Mouse+ Mouse

Total: 512 MB ☐ PC1600 ☒ PC2100

☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

☒ Onboard ☐ AGP 4X

☐ PCI_Slot: ☒ On board

☐ COM ☒ PS/2

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

Type	Vendor	Product Description
GamePad	Logitech	ThunderPad Digital
		WingMan Extreme USB/Game port
Joystick	Microsoft	SideWinder force feedback pro joystick
	Logitech	Wing Man Extreme digital joystick
		CyberMan2 Digital Game Controller

8.5 Power Supply Products

Test Configuration:

OS Ver ☒ Win **ME Ver:** 4.90.3000
CPU Intel Pentium 4 2.2GHz(Northwood) ☒ Intel
Memory KingSton 256MB(Nanya) **Total:** 512 MB ☐ PC1600 ☒ PC2100
HDD WD Caviar WD300 30GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM Pioneer DVD-105S 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA SiS 650 AGP ☒ Onboard ☐ AGP 4X
Sound ALC201 AC'97 **PCI 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 ME with over 5 times.

Vendor	Product Description	Power	Type
DELTA	DPS-300KB-1 A Rev:00	300W	ATX
Seventeam	ST-250BLP	250W	ATX
	ST-250GL	250W	ATX
	ST-300BLV	300W	ATX
Enlight	HPC-340-101	340W	ATX
L&C	LC-A250ATX	250W	ATX
Seasonic	SS-250FS	250W	ATX
iCute	P4-3000TC	300W	ATX
Good Vision	XP-375X	375W	ATX
Adiance	PSIV-350-1 V2.03	350W	ATX
SD	SD-300W-12V	300W	ATX
Green An	ATX-1125BTA	300W	ATX
	ENP-0735	350W	ATX
HOPELY	ATX-300SE-P4	300W	ATX
	ATX-300S	300W	ATX
Golden Field	ATX-320WB&P4	300W	ATX
....	ST-ATX325	300W	ATX
STR	SPS-300W Rev:03	300W	ATX
HEDY(..)	DPS-250GB-2A	145W	ATX



Enhance	ENP-2120D	200W	SFX
HOPELY	ATX-180SE-PSIII	180W	SFX

9. Software Compatibility Test Suite

9.1 Base Operating System

9.1.1 Microsoft Windows 98 SE:

Test Configuration:

CPU	Intel Pentium 4 1.9GHz(Willamette)	<input checked="" type="checkbox"/> Intel
Memory	KingMax 256MB(KingMax)	Total: 512 MB <input type="checkbox"/> PC1600 <input checked="" type="checkbox"/> PC2100
HDD	WD Caviar WD600 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
VGA	SiS 650 AGP	<input checked="" type="checkbox"/> Onboard <input type="checkbox"/> AGP 4X
Sound	ALC201 AC'97	<input type="checkbox"/> PCI_Slot:___ <input checked="" type="checkbox"/> On board
CD-ROM	NEC DV-5800A 16X IDE DVD	Channel: <input type="checkbox"/> PM <input type="checkbox"/> PS <input checked="" type="checkbox"/> SM <input type="checkbox"/> SS
LAN	Realtek RTL8100BL	<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	
Format FDD		PASS	
Large file Copy (Over 500MB)		PASS	
FIC CD-PRO all M/B drivers Install & Test		PASS	
FIC CD-PRO all Application Install & Test		PASS	
FIC CD-Plus V2.0 Auto run 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	25.6

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 Intel Pentium 4 1.9GHz(Willamette) ☒ Intel
Memory Transcend 256MB(SEC) **Total:** 512 MB ☐ PC1600 ☒ PC2100
HDD Maxtor 54098H8 40.9GB IDE ☐ PIO4 ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
VGA SiS 650 AGP ☒ Onboard ☐ AGP 4X
Sound ALC201 AC'97 ☐ PCI_Slot: ☒ On board
CD-ROM SONY DDU1621 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
LAN Realtek RTL8100BL ☐ PCI_Slot: ☒ On board
Mouse Microsoft IntelliMouse Mouse ☐ COM ☒ 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	
FIC CD-Plus V2.0 Auto run test	PASS	
Device Management check (No Caution)	PASS	
Large file Copy from CD/DVD-ROM (Over 500MB)	PASS	
Install Office XP	PASS	
Media Player 7.0 (play MIDI/MP3/CD Audio)	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
System Restore	PASS	
CC WinStone 2002	PASS	16.8
WinStone 2001 V1.02	PASS	32.7

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
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MS Windows ME	4.90.3000	English	Microsoft	Pass
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9.1.3 Microsoft Windows XP/Home Edition:

Test Configuration:

CPU Intel Pentium 4 1.9GHz(Willamette) ☒ Intel
Memory Crucial 256MB(Micron) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD Maxtor 6L060J3 60GB IDE ☐ ATA/66 ☐ ATA/100 ☒ ATA/133
VGA SiS 650 AGP **Channel: ☒ PM ☐ PS ☐ SM ☐ SS**
Sound ALC201 AC'97 ☒ Onboard ☐ AGP 4X
CD-ROM Pioneer DVD-116 16X IDE DVD **☐ PCI_Slot: __. ☒ On board**
LAN Realtek RTL8100BL **Channel: ☐ PM ☐ PS ☒ SM ☐ SS**
Mouse Microsoft IntelliMouse Mouse **☐ PCI_Slot: __. ☒ On board**
COM ☒ 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	
FIC CD-Plus V2.0 Auto run test	PASS	
Device Management check (No Caution)	PASS	
Large file Copy from CD/DVD-ROM (Over 500MB)	PASS	
Install Office XP	PASS	
Media Player 8.0 (play MIDI/MP3/CD Audio)	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	26.7
WinStone 2001 V1.02	PASS	42.0

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



9.1.4 Microsoft Windows 2000 + Service Pack 2:

Test Configuration:

CPU Intel Pentium 4 1.9GHz(Willamette) ☒Intel
Memory Samsung 512MB(Samsung) **Total: 512 MB** ☐PC1600 ☒PC2100
HDD WD Caviar WD1000 100GB IDE ☐PIO4 ☐ATA/66 ☒ATA/100
Channel: ☒PM ☐PS ☐SM ☐SS
VGA SiS 650 AGP ☒Onboard ☐AGP 4X
Sound ALC201 AC'97 ☐PCI_Slot: ☒On board
CD-ROM Panasonic SR-8587-B 16X IDE DVD **Channel:** ☐PM ☐PS ☒SM ☐SS
LAN Realtek RTL8100BL ☐PCI_Slot: ☒On board
Mouse Microsoft IntelliMouse Mouse ☐COM ☒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	
CC WinStone 2002		PASS	31.0
WinStone 2001 V1.02		PASS	49.2

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	2.0	English	Microsoft	Pass



9.1.5 Microsoft Windows NT 4.0 + Service Pack 6:

Test Configuration:

CPU Intel Pentium 4 1.9GHz(Willamette) ☒Intel
Memory Infineon 256MB(Infineon) **Total: 512 MB** ☐PC1600 ☒PC2100
HDD IBM DTLA-307060 61.4GB IDE ☐PIO4 ☐ATA/66 ☒ATA/100
Channel: ☒PM ☐PS ☐SM ☐SS
VGA SiS 650 AGP ☒Onboard ☐AGP 4X
Sound ALC201 AC'97 ☐PCI_Slot:_. ☒On board
CD-ROM Lite-On LTD-163 16X DVD-ROM **Channel:** ☐PM ☐PS ☒SM ☐SS
Mouse Logitech Mouse+ Mouse ☐COM ☒PS/2

Test Item	Result	Remark
Install Win NT with NTFS (boot from CD)	PASS	
Install Service Pack 6.0	PASS	
Format FDD	PASS	
Cool boot 2 times under every combination	PASS	
Reboot 2 times under every combination	PASS	
VGA Resolution/Color change	PASS	
Large file Copy (one file Over 500MB)	PASS	
VCD/DVD play (name: <i>Deep Blue Sea</i>)	PASS	
CC WinStone 2002	PASS	29.1
WinStone 2001 V1.02	PASS	42.3

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

Operating System	Version	Language	Company	Status
Windows NT Workstation	4.0	English	Microsoft	Pass
Windows NT Workstation Service Pack	6.0	English	Microsoft	Pass

9.1.6 IBM OS/2 4.0:

Test Configuration:

CPU Intel Pentium 4 1.9GHz(Willamette) ☒ Intel
Memory Apacer 256MB (Nanya) **Total: 256 MB** ☐ PC1600 ☒ PC2100
HDD Fujitsu MPB3032AT 3.2GB IDE ☐ PIO4 ☒ ATA/33
VGA SiS 650 AGP **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM Acer DVP 1640A 16X IDE DVD ☒ Onboard ☐ AGP 4X
Mouse Logitech Mouse+ Mouse **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
☐ COM ☒ PS/2

Test Item	Result	Remark
Install OS/2 (HPFS)	PASS	
Format FDD	PASS	
XCOPY	PASS	
Diskcopy	PASS	
VGA Resolution/Color change	PASS	
DOS Windows	PASS	
OS/2 Windows	PASS	

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

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

* Don't driver support SiS 650 Video , so VGA driver install by OS/2 standard .

9.1.7 LINUX :

Test Configuration:

CPU Intel Pentium 4 1.9GHz(Willamette) ☒ Intel
Memory Apacer 128MB (SEC) **Total: 256 MB** ☐ PC1600 ☒ PC2100
HDD WD 300 30GB IDE ☐ ATA/66 ☒ ATA/100
VGA SiS 650 AGP **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM NEC DV-5800A 16X IDE DVD ☒ Onboard ☐ AGP 4X
Mouse Logitech Mouse+ Mouse **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
☐ COM ☒ PS/2

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

Operating System	Version	Language	Status
Red Hat	7.2	English	Pass



Open Linux	3.1	English	Pass
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** Don't driver support SiS 650 Video , so VGA driver install by Linux standard(default) .*



Test Engineer:

BIOS: *Benson Shen*

OS: *Scott Lin*

I/O : *Brad Su*

Audio: *Stevent Huang*

CPU/Memory: *Lion Liou*

VGA: *Leon Liang*

Logo: *Joy Tsai*

IDE Devices: *Scott Lin*

Check by: *Lion Liou*

Ownership: *Benson Shen*