

FIC VI39C SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

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Revision: *1.00*

Supervisor	Tester



Revision History

Document Release	Date	Change Item	ECN
Revision 1.00	11/04/2002	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 : VI39C PCB Rev 1.4
Product Name : SiS 650 Based Mainboard
System BIOS : Award BIOS Version SAG42
PCI IDE : Internal PCI Mastre dual IDE
LPC : ITE IT8705F

3. Mainboard CPU Supports:

Intel : (Celeron/L2 cache 128KB)

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
Celeron 2.0GHz	400	FC-PGA2	Pass

Intel : (Willamette/L2 cache 256KB)

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/L2 cache 512KB)

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
Pentium 4 2.5GHz	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 + SiS 962L
System Cache	128/256/512K Pipeline Burst SRAM Built-in CPU
System Memory	DDR200/266 (PC1600/2100) Support
	Maximum : 2GB DDR DRAM
	2 DIMM slots for 184 pins DDR SDRAM Module
System Slots	1 AGP ,3 PCI slots
Audio	Realtek ALC202A AC'97 Audio codec support 2 Channel
LAN	Realtek RTL8201BL (PHY) 10/100 LAN Chip Onboard
LPC (I/O)	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	RTC Alarm Function	PASS
3	NOVUS II BIOS Easy Kit	PASS
	BIOS Flash Protect (Guardian feature)	PASS
4	Ultra ATA-33/66/100/133 Enhanced IDE Interface	PASS
5	Onboard Realtek ALC202A AC'97 Audio	PASS
6	Onboard Realtek RTL8201BL (PHY) 10/100 LAN	PASS
7	USB 1.1/2.0 Function (Front/Rear)	PASS
8	Power Failure feature	PASS

4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	SiS Graphic Port Driver (For External AGP card)	1.11	PASS
2	SiS 650 Graphic Driver For Win 98 SE/ME/XP/2000	2.09b	PASS
3	ALC202A codec driver for Win 9x/ME/2000/XP	5.10.3940	PASS
4	SiS LAN driver for Win 9x/ME/2000/XP	1.16	PASS
5	Award BIOS Flash ROM Utilities	8.20A	PASS

5. Jumper Function Verification

Description	Jumper Name	Default Option	Result
Speaker Connector	SPK	Open	Pass
Power LED (Dual color)	PWR_LED	Open	Pass
IDE LED Connector	HDD_LED	Open	Pass
Reset Switch	Reset	Open	Pass
Remote Power Switch	PWRSW	Open	Pass
CPU FAN Connector	CPU_FAN	Open	Pass
Chipset FAN Connector	CHIP_FAN	Open	Pass
Chassis FAN Connector	SYS_FAN	Open	Pass
Clear CMOS	CLR_CMOS	1-2	Pass
Clear Password	CLR_PWD	Open	Pass
IR interface	IR	Open	Pass
Front Audio Connector	F_AUDIO (Intel SPEC)	Open	Pass
Front USB Connector 4/5	USB 4/5 (Intel SPEC)	Open	Pass
CD_IN Connector (RGGL)	CD_IN	Open	Pass
AUX_IN Connector (RGGL)	AUX_IN	Open	Pass
Serial Port Connector	COM2	Open	Pass
Sony Philips Digital Interface	SPDIF	Open	Pass
Wake On LAN	WOL	Open	Pass

6. Stability Test/Dynamic Burn-in Tests:

Software Name	Duration	Result
CC Winstone 2002 v1.0.1	12hr.	<i>Pass</i>
Test Configurations for Windows XP + SP1	Intel Pentium 4 1.9GHz (Northwood/FSB400) Maxtor 6L080J4 ATA/133 80GB HDD Apacer 256MB DDR266 Memory.(Mosel) X 2 Onboard SiS 650 AGP	
DVD Play (Deep Blue Sea)	12hr.	<i>Pass</i>
Test Configurations for Windows XP	Intel Pentium 4 2.2GHz (Northwood/FSB400) Seagate ST-380021A ATA/100 80GB HDD Apacer 512MB DDR266 Memory.(Infineon) X 2 Onboard SiS 650 AGP Onboard Realtek ALC202A AC'97 Audio WinDVD 3.1	
Cool Boot (over 500 times)	24hr.	<i>Pass</i>
Test Configurations for Real DOS mode	Intel Pentium 4 1.7GHz (Willamette/FSB400) Transcend 256MB DDR266 Memory.(Nanya) X 2 Onboard SiS 650 AGP STR SPS-300W 300W ATX Power Supply	

7. Hardware Compatibility Test Suite

7.1 Memory

Test Configuration:

OS Ver ☒ Win XP + SP1 Ver: 2002
☒ Win 2000 + SP3 Ver: 5.00.2195
CPU Intel Pentium 4 2.4GHz (FSB400) ☒ Intel
HDD WD Caviar 800BB 80GB IDE ☒ ATA/100 ☐ ATA/133
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
VGA SiS 650 ☒ Onboard ☐ AGP 4X
CD-ROM Actima AD16H 16X DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound Realtek ALC202A AC'97 **PCI_Slot:** ☐ On board
LAN Realtek RTL8201BL(PHY) **PCI_Slot:** ☐ On board
Mouse Microsoft IntelliMouse PS/2 Mouse **COM** ☒ PS/2

The following DDR DRAM module test CC Winstone 2002/3D Mark 2001 SE/STR(S3) under Windows XP/2000 and run Memtest86 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.

DDR DRAM Module (DDR266/PC2100)

Vender	IC Part No.	Size	Side	Module No.
Micron	MT46V32M8-75	512MB	D	MT16VDDT6464AG-265B1
Apacer	HYB25D128800AT-7	128MB	D	77.10303.112 (Infineon)
	HYB25D128800T-7	256MB	D	77.10203.110 (Infineon)
	HYB25D256800AT-7	512MB	D	77.10703.110 (Infineon)
	V58C2128804SAT7	256MB	D	77.10203.560 (Mosel)
	NT5DS16M8AT-7K	128MB	D	77.10303.542 (Nanya)
	NT5DS16M8AT-7K	256MB	D	77.10203.540 (Nanya)
	W942508AH-7	512MB	D	77.10703.580 (Winbond)
	K4H280838B-TCB0	128MB	D	77.10304.460 (Samsung)
	K4H280838D-TCB0	256MB	D	77.10204.460 (Samsung)
	K4H560838C-TCB0	512MB	D	77.10704.460 (Samsung)
SEITEC	DDR32M8AT-7	512MB	D	184DR512M638
KingMax	KDL684T4A2A-07A	128MB	S	MPDA82D-68KX2
	KDL684T4A2A-07A	256MB	D	MPDB62D-68KX2
Infineon	HYB25D256800AT-7	256MB	D	HYS64D32000GU-7-A
	HYB25D256800BT-7	512MB	D	HYS64D64020GU-7-B
Kingston	NT5DS16M8AT-7K (Nanya)	256MB	D	KVR266X64C25/256
	W942508AH-75 (Winbond)	512MB	D	KVR266X64C25/512
Buffalo	K4H280838B-TCB0	128MB	S	PC266DD128N8C
elixir	N2DS25680AT-75B	256MB	S	M2U25664DS88AOG-75B
	N2DS12880AT-75B	256MB	D	M2U25664DS88AOG-75B
Transend	V58C2128804SAT7	256MB	D	TS32MLD64V6D5 (Mosel)
	K4H280838C-TCB0	256MB	D	(Samsung)

7.2 Add-on Cards

7.2.1 Display Adapter Products

Test Configuration:

OS Ver ☒ Win XP + SP1 Ver: 2002

CPU Intel Pentium 4 2.0GHz (FSB400) ☒ Intel

HDD WD Caviar 1200BB 120GB IDE ☒ ATA/100 ☐ ATA/133

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

Memory KingSton 256MB(Nanya)

Total: 512 MB ☐ PC1600 ☒ PC2100

CD-ROM BenQ DVP1648A 16X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Sound Realtek ALC202A AC'97

~~PCI Slot:~~ ☒ Onboard

Mouse Logitech MouseMan Mouse

~~COM~~ ☒ PS/2

The following AGP 4X 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.

AGP Display Adapter Products

Vendor	Model Name	Product Description	Driver version
Leadtek	GeForce4 MX 420	A170 TH	6.13.10.2832
	GeForce4 Ti 4400	A250 TD	6.13.10.2832
	GeForce4 Ti 4600	A250 Ultra TD	6.13.10.2832
Matrox	MGA-G550	Millennium G550	5.13.01.1320
ATI	ATI Radeon 8500 LE	Radeon 8500 LE	5.13.10.6071
	ATI Radeon 8500 DV	All-In-Wonder Radeon 8500 DV	5.13.10.3286
	Radeon 8500	Radeon 8500	5.13.10.6071
FIC	ATI Radeon 8500	AT008-275	6.13.10.6015
ASUS	Riva GeForce2 GTS	AGP-V7700 Deluxe	6.13.10.2880
	GeForce2 Ti200	AGP-V7700 TI	6.13.10.2880
	Riva GeForce3	AGP-V8200 Deluxe	6.13.10.2880
	GeForce3 Ti200	AGP-V8200 T2 Deluxe	6.13.10.2880
	GeForce3 Ti500	AGP-V8200 T5 Deluxe	6.13.10.2880
	GeForce4 MX 400	AGP-V8170 DDR	6.13.10.2880
	GeForce4 Ti 4200	V8420 Deluxe	6.13.10.2940
	GeForce4 Ti 4400	V8440 /TD	6.13.10.2880
	GeForce4 Ti 4600	V8460 Ultra /TD	6.13.10.2880
Gainward	GeForce4 Ti 4600	4600XP	6.13.10.2942
Compro	GeForce4 MX 440	VideoMate MX/ GeForce4 MX 440	6.13.10.2942
ELSA	Riva Geforce2 Ultra	GLADIAC Ultra	6.13.10.2832
	GeForce2 MX 200	GLADIAC 311	6.13.10.2880
	GeForce2 MX 400	GLADIAC 511 (TV out)	6.13.10.2832
	GeForce2 Ti	GLADIAC 516TV-Out	6.13.10.2832
	GeForce4 MX 440	GLADIAC 517TV-Out	6.13.10.2832
	GeForce4 MX 420	GLADIAC 517SV	6.13.10.2832
	GeForce4 Ti 4200	GLADIAC 525	6.13.10.2832
	GeForce3 Ti200	GLADIAC 721TV-Out (64MB)	6.13.10.2832
	GeForce3 Ti500	GLADIAC 921 DVI	6.13.10.2832
	GeForce4 Ti 4600	GLADIAC 925ViVo	6.13.10.2832

7.2.2 SCSI Adapter Products

Test Configuration:

OS Ver ☒ Win XP + SP1 **Ver:** 2002.
CPU Intel Pentium 4 2.4GHz(FSB4000) ☒ Intel
Memory Apacer 512MB (Samsung) **Total:** 1000 MB ☐ PC1600 ☒ PC2100
VGA SiS 650 ☒ Onboard ☐ AGP 4X
HDD IBM IC35L036 36GB ☐ Ultra II SCSI ☒ Ultra 160
CD-ROM Afreedy CD-2050S 50X SCSI ☒ Ultra SCSI ☐ Ultra Wide
Sound Realtek ALC202A AC'97 ☐ PCI_Slot:_. ☒ Onboard
LAN Realtek RTL8201BL(PHY) ☐ PCI_Slot:_. ☒ Onboard
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 32bit colors, resolution refresh rate of 85Hz, small font.

Vendor	Model Name	Product Description	Bus I/F
Adaptec	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-390U2W	Tekram DC-390U2W PCI SCSI	PCI
	DC-390U3W	Tekram DC-390U3W PCI SCSI	PCI

7.3 Storage

7.3.1 SCSI Peripheral Products

Test Configuration:

OS Ver ☒ Win XP **Ver:** 2002.
CPU Intel Pentium 4 2.0GHz(FSB400) ☒ Intel
Memory Transcend 256MB (Samsung) **Total:** 512 MB ☐ PC1600 ☒ PC2100
VGA SiS 650 ☒ Onboard ☐ AGP 4X
SCSI Adaptec ASC-29160N Ultra160 ☐ ISA ☒ PCI **Solt:** 2.
Sound Realtek ALC202A 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 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	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
	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
	Afreedy	CD-2050S	Ultra SCSI CD-ROM 50X
	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)

7.3.2 IDE Fixed Disk Drive Products

Test Configuration:

OS Ver ☒ Win XP + SP1 Ver: 2002.
CPU Intel Pentium 4 1.9GHz(FSB400) ☒ Intel
Memory Apacer 256MB (Nanya) **Total: 512 MB** ☐ PC1600 ☒ PC2100
VGA SiS 650 ☒ Onboard ☐ AGP 4X
CD-ROM EPO DVD-8216 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound Realtek ALC202A AC'97 **PCI_Slot:** ☐ Onboard
LAN Realtek RTL8201BL(PHY) **PCI_Slot:** ☐ Onboard
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
	IC35L080AVVA07	82.3GB
	IC35L120AVVA07	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
Samsung	SV3063H	30.6GB
	SV4084H	40.8GB

IDE ATA/133

Vendor	Model Name	Capacity
Maxtor	6L040J2	40GB
	6L040L2	40GB
	6L060J3	60GB
	6L060L3	60GB
	6L080J4	80GB
	6L080L4	80GB
	4G160JB	160GB

7.3.3 ATAPI CD-ROM /DVD-ROM Device Product

Test Configuration:

OS Ver ☒ Win XP + SP1 Ver: 2002.
CPU Intel Pentium 4 2.2GHz(FSB400) ☒ Intel
Memory Elixir 256MB (elixir) **Total: 512 MB** ☐ PC1600 ☒ PC2100
VGA SiS 650 ☒ Onboard ☐ AGP 4X
HDD IBM DTLA-307075 76.8GB IDE ☐ ATA/133 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
Sound Realtek ALC202A AC'97 ☐ PCI_Slot: ☒ On board
Mouse Logitech TrackmanMarble Mouse ☐ 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 32bit colors, resolution refresh rate of 85Hz, small font.

7.3.3.1 ATAPI CD-ROM:

Vendor	Model Name	Product Description
Lite-On	LTN-485S	ATAPI CD-ROM 48X UDMA2
Creative	CD2421E	ATAPI CD-ROM 48X Mode4
Genuine	GC-952B	ATAPI CD-ROM 52X UDMA2
SONY	CDU4811	ATAPI CD-ROM 48X UDMA2
ASUS	CD-S520/A	ATAPI CD-ROM 52X UDMA2
Mitsumi	FX5400W	ATAPI CD-ROM 54X Mode4
LG	CRD-8522B	ATAPI CD-ROM 52X Mode4
AOpen	CD-952E/AKH	ATAPI CD-ROM 52X UDMA2
Acer	650P	ATAPI CD-ROM 50X UDMA2

7.3.3.2 ATAPI DVD-ROM:

Vendor	Model Name	Product Description
ASUS	DVD-E616	ATAPI DVD-ROM 16X
SONY	DDU1621	ATAPI DVD-ROM 16X
Pioneer	DVD-106S/2	ATAPI DVD-ROM 16X (UDMA4)
	DVD-117	ATAPI DVD-ROM 16X (UDMA5)
Actima	AD16H	ATAPI DVD-ROM 16X
4KUS	DVD-16X5H	ATAPI DVD-ROM 16X
NEC	DV-5800A	ATAPI DVD-ROM 16X (UDMA2)
Aopen	DVD1648	ATAPI DVD-ROM 16X (UDMA4)
BTC	BDV 316B	ATAPI DVD-ROM 16X (UDMA2)
BenQ	DVD 1648A	ATAPI DVD-ROM 16X

7.4 Peripherals

7.4.1 Parallel/Serial Port Products (Including IR)

Test Configuration:

OS Ver ☒ Win XP + SP1 **Ver:** 2002.
CPU Intel Pentium 4 2.0GHz(FSB400) ☒ Intel
Memory Apacer 256MB(Samsung) **Total:** 512 MB ☐ PC1600 ☒ PC2100
HDD Seagate ST-380020A 80GB IDE ☐ ATA/133 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM ASUS DVD-E616 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA SiS 650 ☒ Onboard ☐ AGP 4X
Sound Realtek ALC202A AC'97 ☐ PCI_Slot: __. ☒ On board
LAN Realtek RTL8201BL(PHY) ☐ PCI_Slot: __. ☒ On board
Mouse Logitech TrackMan Marble Mouse ☐ COM ☒ PS/2

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

Vendor	Product Description	Bus I/F
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

7.4.2 USB Device Products

Test Configuration:

OS Ver ☒ Win XP + SP1 Ver: 2002
CPU Intel Pentium 4 1.8GHz(FSB400) ☒ Intel
Memory Transcend 256MB(Mosel) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD Maxtor 4K040H2 40GB IDE ☐ ATA/133 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM ASUS DVD-E616 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA SiS 650 ☒ Onboard ☐ AGP 4X
Sound Realtek ALC202A AC'97 ☐ PCI_Slot:___ ☒ On board
LAN Realtek RTL8201BL(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.

7.4.2.1 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)
HUB	Belkin	Express Bus F5U001
	SOHOUSB	Unique Energy Saving (4-Port USB Hub)
Keyboard	BTC	8113W
	Microsoft	Natural Keyboard Pro
Printer	HP	DeskJet 840c
		DeskJet 990cxi
		DeskJet 1220c
	EPSON	Stylus Color 740
		Stylus Color 900
Speaker	YAMAHA	YST-MS35D
MO	OLYMPUS	Turbo MO MINI (MOS3390S)
HDD	Vipower	VP-8058 Mobile USB Adapter
ZIP	iomega	ZIP 250
CD-RW	SONY	Sprensa 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

7.4.2.2 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)

7.5 Power Supply Products

Test Configuration:

OS Ver ☒ Win XP + SP1 Ver: 2002
CPU Intel Pentium 4 1.7GHz(FSB400) ☒ Intel
Memory Apacer 256MB(Samsung) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD WD Caviar 300BB 30GB IDE ☐ ATA/133 ☒ ATA/100
CD-ROM SONY DDU1621 16X IDE DVD **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
VGA SiS 650 **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound Realtek ALC202A AC'97 ☒ Onboard ☐ AGP 4X
LAN Realtek RTL8201BL(PHY) ☐ PCI_Slot: ☒ On board
Mouse Logitech TrackMan Marble Mouse ☐ PCI_Slot: ☒ On board
☐ COM ☒ PS/2

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

Vendor	Product Description	Power	AC Input Voltage	Type
DELTA	DPS-300KB A Rev:00	300W	110/220	ATX
	DPS-300KB-1 A Rev:00	300W	110/220	ATX
Seventeam	ST-250BLP	250W	110/220	ATX
	ST-250BLV	250W	110/220	ATX
	ST-250GL	250W	110/220	ATX
	ST-300BLV	300W	110/220	ATX
	ST-350GL	350W	110/220	ATX
Enlight	HPC-340-101	340W	110/220	ATX
Seasonic	SS-250FS	250W	110/220	ATX
	SS-300FS	300W	110/220	ATX
ICute	AL-3000P4	300W	110/220	ATX
	P4-3000TC	300W	110/220	ATX
Green An	ATX-1125BTA	300W	110/220	ATX
	ENP-0735	350W	110/220	ATX
L&C	LC-A250ATX	250W	110/220	ATX
ENERMAX	EG265P-VE	250W	110/220	ATX
	EG301P-VE	300W	110/220	ATX
	EG365P-VE	300W	110/220	ATX
SD	SD-300W-12V	300W	110/220	ATX
Good Vision	XP-375X	375W	110/220	ATX
SD	SD-300W-12V	300W	110/220	ATX
HOPELY	ATX-250SE-P4	250W	220	ATX
	ATX-300SE-P4	300W	220	ATX
	ATX-300S	300W	220	ATX
Golden Field	ATX-320WB&P4	300W	220	ATX
Enhance	ENP-2120D	200W	110/220	SFX
HOPELY	ATX-180SE-PSIII	180W	220	SFX

8. Software Compatibility Test Suite

8.1 Base Operating System

8.1.1 Microsoft Windows 98 SE:

Test Configuration:

CPU Intel Pentium 4 2.2GHz(FSB400) ☒ Intel
Memory KingMax 256MB(KingMax) **Total: 512 MB** ☒ PC2100 ☐ PC2700
HDD WD Caviar 600 60GB IDE ☐ ATA/133 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
VGA SiS 650 ☒ Onboard ☐ AGP 4X
Sound Realtek ALC202A AC'97 ☐ PCI_Slot: __ ☒ On board
CD-ROM NEC DV-5800A 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
LAN Realtek RTL8201BL(PHY) ☐ PCI_Slot: __ ☒ On board
Mouse Microsoft IntelliMouse Mouse ☐ COM ☒ PS/2

Test Item		Result	Remark
FDISK (FAT32)		PASS	
Format FDD		PASS	
FIC CD-PRO all M/B drivers 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 v1.0.1		PASS	20.2

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 98 SE	4.10.2222A	English	Microsoft	Pass



8.1.2 Microsoft Windows ME:

Test Configuration:

CPU Intel Pentium 4 2.2GHz(FSB400) ☒ Intel
Memory Apacer 256MB(Infineon) **Total: 512 MB** ☒ PC2100 ☐ PC2700
HDD IBM IC35L080A 82.3GB IDE ☐ ATA/133 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
VGA SiS 650 ☒ Onboard ☐ AGP 4X
Sound Realtek ALC202A AC'97 ☐ PCI_Slot: __ ☒ On board
CD-ROM SONY DDU1621 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
LAN Realtek RTL8201BL(PHY) ☐ 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-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	
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 v1.0.1		PASS	20.3
WinStone 2001 V1.0.3		PASS	48.1

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

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

Test Configuration:

CPU Intel Pentium 4 2.2GHz(FSB400) ☒ Intel
Memory Apacer 512MB(Winbond) **Total: 1000 MB** ☒ PC2100 ☐ PC2700
HDD Maxtor 6L060J3 60GB IDE ☒ ATA/133 ☐ ATA/100
VGA SiS 650 **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
Sound Realtek ALC202A AC'97 ☒ Onboard ☐ AGP 4X
CD-ROM Pioneer DVD-116 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
LAN Realtek RTL8201BL(PHY) **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Mouse Microsoft IntelliMouse Mouse **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	
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 v1.0.1		PASS	28.7
WinStone 2001 v1.0.3		PASS	49.0

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
Windows XP Service Pack	1.0	English	Microsoft	Pass

8.1.4 Microsoft Windows 2000 + Service Pack 3:

Test Configuration:

CPU Intel Pentium 4 2.2GHz(FSB400) ☒Intel
Memory Infineon 256MB(Infineon) **Total: 512 MB** ☒PC2100 ☒PC2700
HDD WD Caviar 1200BB 120GB IDE ☒ATA/133 ☒ATA/100
Channel: ☒PM ☒PS ☒SM ☒SS
VGA SiS 650 ☒Onboard ☒AGP 4X
Sound Realtek ALC202A AC'97 ☒PCI_Slot: ☒On board
CD-ROM Panasonic SR-8587-B 16X IDE DVD **Channel:** ☒PM ☒PS ☒SM ☒SS
LAN Realtek RTL8201BL(PHY) ☒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	
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 v1.0.1		PASS	25.8
WinStone 2001 v1.0.3		PASS	51.0

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 2000 Professional	5.00.2195	English	Microsoft	Pass
Windows 2000 Service Pack	3.0	English	Microsoft	Pass

8.1.5 Microsoft Windows NT 4.0 + Service Pack 6:

Test Configuration:

CPU Intel Pentium 4 2.2GHz(FSB400) ☒ Intel
Memory Pan 256MB(Samsung) **Total:** 512 MB ☐ PC2100 ☒ PC2700
HDD IBM IC35L060A 60GB IDE ☐ ATA/133 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
VGA SiS 650 ☒ Onboard ☐ AGP 4X
Sound Realtek ALC202A AC'97 ☐ PCI_Slot:_. ☒ On board
CD-ROM Lite-On LTD-163 16X DVD-ROM **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
LAN Realtek RTL8201BL(PHY) ☐ PCI_Slot:_. ☒ On board
Mouse Microsoft IntelliMouse 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: <u>Deep Blue Sea</u>)	PASS	

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

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

**Test Engineer:****BIOS:** Benson Shen**OS:** Kai Dane**I/O :** Leon Liang**Audio:** Lion Liou**CPU:** Stevent Huang**VGA:** Scott Lin**Memory:** Jimmy Kuo**IDE Devices:** Frando Tzeng**Power:** RIC Lu**Check by:** Lion Liou**Ownership:** Benson Shen