

FIC VC35 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

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Supervisor	Tester

FIC Research & Development Department

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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 : VC35 PCB Rev 1.1
Product Name : Intel 845D Based Mainboard
System BIOS : Award BIOS Version IEE41
PCI IDE : Internal PCI Mastre dual IDE
I/O : SMsC LPC47M192-NC

3. Mainboard CPU Supports:

Intel : (Willamette)

Intel Processors	Bus	Package	Status
Pentium 4 1.4GHz	100	FC-PGA2	Pass
Pentium 4 1.5GHz	100	FC-PGA2	Pass
Pentium 4 1.7GHz	100	FC-PGA2	Pass
Pentium 4 1.8GHz	100	FC-PGA2	Pass
Pentium 4 1.9GHz	100	FC-PGA2	Pass
Pentium 4 2.0GHz	100	FC-PGA2	Pass

Intel : (Northwood)

Intel Processors	Bus	Package	Status
Pentium 4 2.0GHz	100	FC-PGA2	Pass
Pentium 4 2.2GHz	100	FC-PGA2	Pass

4. System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	Intel 845D (82845+82801BA)
System Cache	256K 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 and 1 CNR slots
Audio	Intel AC'97 Audio with Realtek ALC201 codec
LAN (Option)	Realtek RTL8100L 10/100 LAN Chip Onboard
LPC	SMsC LPC47M192-NC Support Normal,EPP,ECP mode and IR interface

4.1 Main Functionality :

Num.	M/B function	Result
1	ACPI Ready (under Win 98 SE/ME/Win 2000/XP)	PASS
2	Wake On LAN / Wake On Ring	PASS
3	RTC Alarm Function	PASS
4	H/W Monitoring (+/-12V,+/-5V,+5VR)	PASS
5	NOVUS II BIOS Easy Kit	PASS
	BIOS Flash Protect (Guardian feature)	PASS
6	Ultra ATA-33/66/100 Enhanced IDE Interface	PASS
7	Onboard AC'97 Audio	PASS
8	Onboard RTL8100L LAN	PASS
9	CNR Modem/Audio Function	PASS
10	USB Function (Front/Rear)	PASS
11	Power Failure feature	PASS
12	Year 2000 Compliance	PASS

4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	Intel ATA Storage driver for Win 9x/NT/ME/2000	6.20	PASS
2	Intel Chipset Software Install Utility	3.20.1008	PASS
3	ALC201 codec driver for Win 9x/ME/2000/XP	5.10.00.3640	PASS
4	ALC201 codec driver for Win NT	4.03.00.3020	PASS
5	Realtek RTL8100L LAN driver for Win 9x/ME/2000/XP	5.397.0823.2001	PASS
6	Award BIOS Flash ROM Utilities	8.10	PASS

5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPK	Open	Pass
Power LED (Single color)	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
North Bridge FAN Connector	CHIP_FAN	Open	Pass
Chassis FAN Connector	SYS_FAN	Open	Pass
Clear CMOS	SW1-1	Off	Pass
Clear Password	SW1-2	Off	Pass
IR interface	IRRX/IRTX	Open	Pass
Host Frequency Jumper	JP1	2-3	Pass

6. Stability Test

6.1 Stress Test:

System Configuration



CPU	: Intel P 4 1.7GHz	FDD	: NEC FD1231T 1.44MB
Cache Memory	: 256 K	Audio	: Onboard ALC201 AC'97 Audio
Memory	: DDR DRAM 512MB (256MBx2)	LAN	: Onboard Realtek 8139B
HDD 1	: Maxtor 52049H4 20.4GB	Mouse	: Microsoft PS/2 mouse
HDD2	: Seagate ST-328040A 28.5GB	PowerSupply	: ENERMAX EG-301P-VE 300W
CD-ROM	: Philips PCA323CD 32X	O.S. Environment:	Windows 2000
DVD-ROM1	: Actima AD12H 12X		
VGA	: ELSA GLADIAC 511 AGP		
CNR	: Well 56k modem		

Test Result						
BIOS detect	Install OS	All driver install	PM	CC WS 2001	Stress burn in	DVD/VCD play
Pass	Pass	Pass	Pass	Pass	Pass	Pass

6.2 PCB Cool Boot Test: (12 hours)

System Configuration			
CPU	: Intel P4 1.7GHz	FDD	: NEC FD1231T 1.44MB
Cache Memory	: 256 K	PowerSupply	: ENERMAX EG-301P-VE 300W
Memory	: DDR DRAM 512MB(256MBx2)		
VGA	: ELSA GLADIAC 920 AGP		

Test Result	
Cool Boot (over 600 times)	Pass

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

Software Name	Duration	Result
CC Winstone 2001 Under WIN XP	12hr.	Pass
Test Configurations for Win XP	Intel Pentium 4 2.2GHz (NorthWood) IBM DTLA-307075 ATA/100 76.8GB HDD Crucial 256MB DDR DRAM Memory.(Micron) X 2 ELSA GLADIAC AGP	
CC Winstone 2001 Under WIN 2000	12hr.	Pass
Test Configurations for Windows 2000	Intel Pentium 4 1.8GHz Fujitsu MPG3204AT ATA/100 20.4GB HDD Apacer 128MB DDR DRAM Memory.(SEC) X 2 ELSA GLADIAC MX 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 (Bus clock 100MHz) ☒ Intel
HDD IBM DTLA-307015 15GB IDE ☒ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
VGA Cardex Geforce2 MX ☐ Onboard ☒ AGP 4X
CD-ROM Panasonic SR-8585-B 8X DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS
Sound ALC201 AC'97 ☐ PCI Slot: ☒ On board
Mouse Microsoft IntelliMouse PS/2 Mouse ☐ COM ☒ PS/2

The following PC2100 DDR DRAM module test Winstone 2001/3D 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.

DDR DRAM Module (DDR266/PC2100)

Vender	IC Part No.	Size	Side	Module No.
NEC	D45D128842G5-C75-9LG	128MB	D	MC-45D16CB641KF-C75
	D45D128842G5-C75-9LG	256MB	D	MC-45D32CD641KFA-C75
Micron	MT46V8M8-75	64MB	S	MT8VDDT864AG-265A2
	MT46V8M8-75	128MB	D	MT16VDDT1664AG-265A2
	MT46V16M8-75A	128MB	S	MT8VDDT1664AG-265A1
	MT46V16M8-75A	256MB	D	MT16VDDT3264AG-265A1
SEC	K4H281638B-TCA2	128MB	D	M368L1714BT1-CA2
	K4H280838B-TCB0	256MB	D	M368L3313BT1-CB0
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
Infineon	HYB25D256800AT-7	256MB	D	HYS64D32000GU-7-A
	HYB25D256800AT-7	512MB	D	HYS64D64020GU-7-A

8.2 Add-on Cards

8.2.1 Display Adapter Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002

CPU Intel Pentium 4 1.7GHz (Bus clock 100MHz) ☒ Intel

HDD Seagate ST-320414A 20GB IDE ☒ ATA/66 ☒ ATA/100

Channel: ☒ PM ☒ PS ☒ SM ☒ SS

Memory Infineon 256MB(Infineon)

Total: 256 MB ☒ PC1600 ☒ PC2100

CD-ROM Pioneer DVD-116 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 TNT2 M64	WinFast 3D S325	5.13.01.2181
	Riva TNT2 Vanta	WinFast 3D S320V	5.13.01.2181
	GeForce256	Winfast GeForce256	5.13.01.2183
	GeForce2 MX	Winfast GeForce2 MX	5.13.01.2183
	Riva TNT2 Pro	WinFast 3D S320 II Pro	5.13.01.2183
	Riva Geforce3	WinFast Geforce3	5.13.01.2183
Matrox	MGA-G400	Millennium G400 SH	5.12.01.1720
	MGA-G400	Millennium G400 MAX	5.12.01.1720
	MGA-G450	Millennium G450	5.12.01.1720
ATI	Rage 128 Pro	XPert 2000 Pro	6.13.3279
	Radeon	Radeon	6.13.3276
	Radeon VE	Radeon VE	6.13.3276
	Radeon	All-In-Wonder Radeon	6.13.3276
FIC	Radeon 7500	AT008	6.13.3276
	Radeon 8500	AT008	6.13.3276
Cardex	Riva TNT2 Vanta	Cardexpert TNT2 Vanta	5.13.01.2181
	GeForce2 MX	GeForce2 MX	5.13.01.2183
ASUS	Riva GeForce 256	AGP-V6600	5.13.01.1462
	GeForce256 DDR	AGP-V6800	5.13.01.1462
	GeForce2 MX	AGP-V7100	5.13.01.1462
	Riva GeForce2 GTS	AGP-V7700	5.13.01.1462
	Riva GeForce2 GTS	AGP-V7700 Deluxe	5.13.01.1462
	Riva GeForce3	AGP-V8200 Deluxe	5.13.01.1462
Creative	Riva Geforce 256	3D Blaster GeForce256	5.13.01.2183
	Riva Geforce 256	3D Blaster GeForce Pro	5.13.01.2183
	GeForce2 GTS	3D Blaster Geforce2 GTS	5.13.01.2183
Visiontek	Riva Geforce3	Geforce3 (TV out)	5.13.01.2183
Unika	Riva TNT2	? ? ?	5.13.01.2183

ELSA	Riva TNT2	ERAZOR III	5.13.01.2183
	Riva TNT2	Synergy II	5.13.01.2183
	Riva TNT2 M64	ERAZOR III LT	5.13.01.2183
	Riva TNT2 Vanta	ERAZOR III LT-16	5.13.01.2183
	Riva TNT2 Pro	ERAZOR III Pro	5.13.01.2183
	Riva GeForce 256 DDR	ERAZOR X ²	4.13.01.1240
	Riva Geforce2 GTS	GLADIAC	5.13.01.2181
	Riva Geforce2 Ultra	GLADIAC Ultra	5.13.01.2183
	GeForce2 MX	GLADIAC MX	5.13.01.2183
	GeForce2 MX 400	GLADIAC 511	5.13.01.2183
	GeForce3	GLADIAC 920	5.13.01.2183
	GeForce2 Ti	GLADIAC 516TV-Out	5.13.01.2183

8.2.2 SCSI Adapter Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002

☒ Win 2000 Ver: 5.00.2195

CPU Intel Pentium 4 1.7GHz ☒ Intel

Memory Buffalo 64MB (Hyundai) Total: 128 MB ☐ PC100 ☒ PC2100

VGA ASUS AGP-V8200 Deluxe ☐ Onboard ☒ AGP 4X

HDD Seagate ST-318436LW 18GB ☐ Ultra II SCSI ☒ Ultra Wide

CD-ROM TEAC CD-532S 32X SCSI CD-ROM ☒ Ultra SCSI ☐ Ultra Wide

Sound ALC201 AC'97 ☐ PCI Slot: ☒ On board

Mouse Logitech MouseMan Mouse ☐ COM ☒ PS/2

The following PCI SCSI cards run Winstone 2001 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 Modem Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002
 CPU Intel Pentium 4 1.7GHz ☒ Intel
 Memory KingMax 256MB(KingMax) Total: 512 MB ☐ PC1600 ☒ PC2100
 VGA ELSA Gladiac 511 ☐ Onboard ☒ AGP 4X
 HDD Seagate ST-328040A 28.5GB IDE ☒ ATA/66 ☐ ATA/100
 Channel: ☒ PM ☐ PS ☐ SM ☐ SS
 CD-ROM Philips PCA323A 32X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS
 Sound ALC201 AC'97 ☐ PCI_Slot: ☒ On board
 LAN Realtek RTL8100L ☐ 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
CIS	PSL 56K data/Fax/RTAP	PCI
Askey	1456VQH-R4 INT1	PCI

8.2.4 CNR Audio/Modem Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002
 CPU Intel Pentium 4 1.7GHz ☒ Intel
 Memory KingMax 256MB(KingMax) Total: 512 MB ☐ PC1600 ☒ PC2100
 VGA ELSA Gladiac 511 ☐ Onboard ☒ AGP 4X
 HDD Seagate ST-328040A 28.5GB IDE ☒ ATA/66 ☐ ATA/100
 Channel: ☒ PM ☐ PS ☐ SM ☐ SS
 CD-ROM Philips PCA323A 32X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS
 LAN Realtek RTL8100L ☐ PCI_Slot: ☒ On board
 Mouse Microsoft IntelliMouse PS/2 Mouse ☐ COM ☒ PS/2

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

Vendor	Product Description	Type
Mediatek	SoundMAX	Audio
Castle Net	56KV.90 Modem Riser Card (MC810)	Modem
TAICOM	56KV.90 Modem Riser Card (MC810)	Modem
Well	56KV.90 Modem Riser Card (MC810)	Modem

8.2.5 PCI IDE RAID Products

Test Configuration:

OS Ver ☒ Win 2000 Ver: 5.00.2195

CPU Intel Pentium 4 1.7GHz ☒Intel
Memory SEC 128MB(SEC) **Total: 256 MB** ☐PC1600 ☒PC2100
VGA ATI Radeon ☐Onboard ☒AGP 4X
HDD1 IBM DTLA-307020 20GB IDE ☐ATA/66 ☒ATA/100
HDD2 Fujitsu MPG3204AT 20GB IDE ☐ATA/66 ☒ATA/100
CD-ROM Actima AD16H 16X IDE DVD **Channel:** ☐PM ☐PS ☒SM ☐SS
Sound ALC201 AC'97 ☐PCI_Slot: ☒On board
Mouse Microsoft IntelliMouse PS/2 Mouse ☐COM ☒PS/2

The following PCI RAID card test RAID 1 under Windows 2000 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 1.7GHz ☒Intel
Memory Infineon 512MB (Infineon) **Total: 1024 MB** ☐PC1600 ☒PC2100
VGA ASUS AGP-V8200 Deluxe ☐Onboard ☒AGP 4X
SCSI ASC-29160 Ultra160 Wide SCSI ☐ISA ☒PCI_Solt: 2.
Mouse Logitech First Mouse+ Mouse ☐COM ☒PS/2

The following SCSI devices test and WinStone 2001 under Windows ME/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

CD-ROM		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
	Plextor	PX-40Tsi	Ultra SCSI CD-ROM 40X
	Toshiba	XM-6210B	Ultra SCSI CD-ROM 32X
	Panasonic	CR-508	SCSI-II CD-ROM 24X
	SONY	CDU-625	SCSI-II CD-ROM 24X
	TEAC	CD-532S	Ultra SCSI CD-ROM 32X
	Afreedy	CD-2050S	Ultra SCSI CD-ROM 50X
	TEAC	CDR 56S	(24R6W) CD-RW 24X
	Nichimen	CDR-BP3N	(32R12W10RW) CD-RW 32X
	Plextor	PX-W124Tsi	(12W/4RW/32R) CD-RW 32X

8.3.2 IDE Fixed Disk Drive Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002

CPU Intel Pentium 4 1.5GHz

☒ Intel

Memory KingMAX 128MB (KingMAX)

Total: 256 MB ☐ PC1600 ☒ PC2100

VGA Matrox Millennium G400 MAX

☐ Onboard ☒ AGP 4X

CD-ROM Lite-On LTD-122 12X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Sound ALC201 AC'97

☐ PCI Slot: ☒ On board

LAN Realtek RTL8100L

☐ 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 Intel ATA Storage 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
Samsung	SV3063H	30.6GB
	SV4084H	40.8GB

8.3.3 ATAPI CD-ROM /DVD-ROM Device Product

Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000
CPU Intel Pentium 4 1.8GHz ☒ Intel
Memory TwinMos 128MB (Infineon) **Total:** 256 MB ☐ PC1600 ☒ PC2100
VGA Creative Geforce2 GTS ☐ Onboard ☒ AGP 4X
HDD Maxtor 4K040H2 40GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
Sound ALC201 AC'97 ☐ PCI_Slot: ☒ On board
LAN Realtek RTL8100L ☐ PCI_Slot: ☒ On board
Mouse Logitech TrackmanMarble Mouse ☐ COM ☒ PS/2

The following IDE devices test play VCD or DVD under windows ME with Intel ATA Storage 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
TEAC	CD-540E	ATAPI CD-ROM 40X Mode3
Pioneer	DR-744	ATAPI CD-ROM 36X Mode4
SONY	CDU-4811	ATAPI CD-ROM 48X UDMA2
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-115	ATAPI DVD-ROM 16X
	DVD-105S	ATAPI DVD-ROM 16X
	DVD-116	ATAPI DVD-ROM 16X (UDMA66)
	DVD-106S/2	ATAPI DVD-ROM 16X (UDMA66)
Panasonic	SR-8587-B	ATAPI DVD-ROM 16X
	LF-D211V	4.7GB DVD-RAM
Afreedy	DD-4010E	ATAPI DVD-ROM 10X
Acer	DVP1640A	ATAPI DVD-ROM 16X
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 ME Ver: 4.90.3000

CPU Intel Pentium 4 1.8GHz ☒ Intel

Memory Apacer 128MB(SEC) Total: 256 MB ☐ PC1600 ☒ PC2100

HDD Maxtor 54098H8 40.9GB IDE ☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM Pioneer DVD-115 16X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA ASUS AGP-V770 Deluxe ☐ Onboard ☒ AGP 4X

Sound ALC201 AC'97 ☐ PCI_Slot: ☒ On board

LAN Realtek RTL8100L ☐ PCI_Slot: ☒ On board

Mouse Logitech TrackMan Marble Mouse ☐ COM ☒ PS/2

The following Parallel/Serial/IR devices be tested under Windows ME with Intel ATA Storage drivers installed.

Vendor	Product Description	Bus I/F
IOMEGA	Parallel ZIP 250	LPT
Mustek	Plug-N-Scan 1200CP EPP Scanner	LPT
HP	LaserJet 6P	LPT
EPSON	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/IR
ACTisys	ACT-IR210L Receiver/Transceiver	IR
IRwave	IRwave320F Receiver/Transceiver	IR

8.4.2 Mouse Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002

CPU Intel Pentium 4 1.7GHz ☒ Intel

Memory Transcend 256MB (Nanya) Total: 512 MB ☐ PC1600 ☒ PC2100

HDD Maxtor 4K040H2 40GB IDE ☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM Creative DVD1242E 12X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA ELSA GLADIAC 920 ☐ Onboard ☒ AGP 4X

Sound ALC201 AC'97 ☐ PCI_Slot: ☒ On board

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

Vendor	Product Description	Bus I/F
Microsoft	IntelliMouse USB/PS2 Mouse (Optical)	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 ME Ver: 4.90.3000

CPU Intel Pentium 4 1.5GHz ☒ Intel

Memory NEC 256MB(NEC)

Total: 512 MB ☐ PC1600 ☒ PC2100

HDD WD 300 30GB IDE

☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM ASUS DVD-E612 12X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA ASUS AGP-V7100

☐ Onboard ☒ AGP 4X

Sound ALC201 AC'97

☐ PCI Slot: ☒ On board

Mouse Logitech First Mouse+ Mouse

☐ COM ☒ PS/2

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

Type	Vendor	Description
Mouse	Logitech	USB Wheel Mouse (M-BB48)
		USB MouseMan Wheel (M-BA47)
		USB Wheel optical Mouse (M-BD58)
	Microsoft	IntelliMouse Mouse (w IntelliEye)
		IntelliMouse Optical USB Mouse
		IntelliMouse explorer USB Mouse
	Cypress	7-895 Mouse
HUB	Belkin	Express Bus F5U001
	SOHOUSB	Unique Energy Saving (4-Port USB Hub)
Camera	Intel	YC72
	Kodak	DVC323
	IBM	XVP610
Keyboard	BTC	8113W
	Jetime	ACK-298H
	Microsoft	Natural Keyboard Pro
Printer	EPSON	Stylus Color 740
		Stylus Color 900
Scanner	EPSON	GT-7000
	HP	ScanJet 4200C
Ethernet	CATC	USB Ethernet Link
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	Creative	Cobra USB GamePad
	Microsoft	SideWinder Strategic Commander
	Microsoft	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 1.7GHz ☒ Intel

Memory Transcend 256MB (Nanya)

Total: 512 MB ☐ PC1600 ☒ PC2100

HDD Maxtor 4K040H2 40GB IDE

☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

CD-ROM Creative DVD1242E 12X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

VGA ELSA GLADIAC 920

☐ Onboard ☒ AGP 4X

Sound ALC201 AC'97

☐ PCI_Slot: ☒ On board

Mouse Logitech First Mouse+ Mouse

☐ 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	CyberMan2 Digital Game Controller

8.5 Power Supply Products

Test Configuration:

OS Ver ☒ Win ME Ver: 4.90.3000
 CPU Intel Pentium 4 1.7GHz ☒ Intel
 Memory Hynix 256MB(Hyundai) Total: 512 MB ☐ PC1600 ☒ PC2100
 HDD Maxtor 51536H2 15.3GB IDE ☐ ATA/66 ☒ ATA/100
 Channel: ☒ PM ☐ PS ☐ SM ☐ SS
 CD-ROM Acer DVP1640A 16X IDE DVD Channel: ☐ PM ☐ PS ☒ SM ☐ SS
 VGA ELSA GLADIAC 516 ☐ 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
ENERMAX	EG301P-VE	300W	ATX
Seasonic	SS-250FS	250W	ATX
HOPELY	ATX-300SE-P4	300W	ATX
	ATX-300S	300W	ATX
Golden Field	ATX-320WB&P4	300W	ATX
STR	SPS-300W Rev:03	300W	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 1.7GHz	<input checked="" type="checkbox"/> Intel
Memory	KingMax 256MB(KingMax)	Total: 512 MB <input type="checkbox"/> PC1600 <input checked="" type="checkbox"/> PC2100
HDD	WD Caviar 400 40GB 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	ASUS AGP-V7700 Deluxe	<input type="checkbox"/> Onboard <input checked="" 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 RTL8100L	<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	

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 1.7GHz
Memory Transcend 256MB(SEC)
HDD Maxtor 54098H8 40.9GB IDE
VGA ELSA GLADIAC 511
Sound ALC201 AC'97
CD-ROM SONY DDU1621 16X IDE DVD
LAN Realtek RTL8100L
Mouse Microsoft IntelliMouse Mouse

☒ Intel
 Total: 512 MB ☐ PC1600 ☒ PC2100
☐ PIO4 ☐ ATA/66 ☒ ATA/100
 Channel: ☒ PM ☐ PS ☐ SM ☐ SS
☐ Onboard ☒ AGP 4X
☐ PCI_Slot: __. ☒ On board
 Channel: ☐ PM ☐ PS ☒ SM ☐ SS
☐ PCI_Slot: __. ☒ On board
☐ 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 (98keykeyboard)	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	

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:

Test Configuration:

CPU	Intel Pentium 4 1.7GHz	<input checked="" type="checkbox"/> Intel
Memory	Crucial 256MB(Micron)	Total: <u>512</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 920	<input type="checkbox"/> Onboard <input checked="" type="checkbox"/> AGP 4X
Sound	ALC201 AC'97	<input type="checkbox"/> PCI_Slot: __ <input checked="" type="checkbox"/> On board
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
LAN	Realtek RTL8100L	<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	
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: <u>Deep Blue Sea</u>)	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

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 1.7GHz ☒ Intel
Memory Hynix 256MB(Hyundai) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD Maxtor 5T060H6 61GB IDE ☐ PIO4 ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
VGA ATI Radeon ☐ 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 RTL8100L ☐ 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) S3 (Suspend To Memory)	Power button	PASS
	Keyboard Sleep Key	PASS
	Start → Stand By item	PASS
	Time Out	PASS
	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

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 1.7GHz ☒ Intel
Memory KingSton 256MB(Winbond) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD Fujitsu MPG3307A 30.7GB IDE ☐ PIO4 ☐ ATA/66 ☒ ATA/100
VGA Matrox Millennium G450 ☐ 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	

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 1.7GHz ☒ Intel



Memory TwinMos 128MB (Hyundai) **Total: 256 MB** ☒PC1600 ☒PC2100
HDD Fujitsu MPB3032AT 3.2GB IDE ☒PIO4 ☒ATA/33
VGA Matrox Millennium G400 MAX **Channel:** ☒PM ☒PS ☒SM ☒SS
CD-ROM Acer DVP 1640A 16X IDE DVD ☒PCI_Slot: 2 ☒AGP
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	
PM function (H/W & BIOS)	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

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

* Don't driver support Realtek ALC201 AC'97 Audio.

9.1.7 LINUX :

Test Configuration:

CPU Intel Pentium 4 1.8GHz ☒Intel
Memory Apacer 128MB (SEC) **Total: 256 MB** ☒PC1600 ☒PC2100
HDD WD 300 30GB IDE ☒ATA/66 ☒ATA/100
VGA ASUS AGP-V7700 Deluxe **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	7.1	English	Pass
Open Linux	3.1	English	Pass

* You have to set "APIC mode"(BIOS item) to Enabled before install Open Linux 3.1

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*