

FIC VC19 PCI/AGP SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

Document Number: *MB-503*

Product Version: *V 1.1*

BIOS Version: **IEL44 (for Winbond 83627)**

Report Date: **10/15/2002**

Revision: **1.02**

Supervisor	Tester

Revision History

Document Release	Date	Change Item	ECN
Revision 1.00	6/25/2002	Initial Release.	
Revision 1.01	8/08/2002	BIOS update to IEL43 (for Winbond 83627 LPC) BIOS update to IER42 (for Winbond 83637 LPC) Add to support Intel P4 2.50GHz(FSB400) / 2.66GHz(FSB533) CPU Add to support AGP card List: ASUS V8420 Deluxe AGP card Compro VideoMate Cinema/GeForce4 Ti 4600 ELSA GLADIAC 525 AGP card Leadtek A250 LE TD AGP card	M02205- E-011 & M02205- E-012
Revision 1.02	10/15/2002	BIOS update to IEL44 (for Winbond 83627 LPC) Add to support Intel Celeron 2.0GHz CPU. Intel P4 NW 2.8GHz(FSB533) CPU Removed M/B SPEC to support Winbond 83637 LPC.	M02205- E-016

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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 : VC19 PCB Rev 1.1
Product Name : Intel 845E Based Mainboard
System BIOS : Award BIOS Version IEL44
PCI IDE : Internal PCI Mastre dual IDE
I/O : Winbond W83627HF-AW

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 1.73GHz	533	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 2.26GHz	533	FC-PGA2	Pass
Pentium 4 2.4GHz	400/533	FC-PGA2	Pass
Pentium 4 2.5GHz	400	FC-PGA2	Pass
Pentium 4 2.53GHz	533	FC-PGA2	Pass
Pentium 4 2.66GHz	533	FC-PGA2	Pass
Pentium 4 2.8GHz	533	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 845E (82845E+82801DB)
System Cache	128/256/512KB Pipeline Burst SRAM Built-in CPU
System Memory	DDR200/266 (PC1600/2100) Support
	Maximum : Total 2GB DDR DRAM
	3 DIMM slots for 184 pins DDR SDRAM Module
System Slots	1 AGP and 6 PCI slots
Audio	C-Media CMI8738 5.1 channel Audio
	Intel AC'97 Audio with Sigmatel STAC9750 codec (Option)
IDE RAID (Option)	HighPoint HPT372 IDE RAID support RAID 0/1.
LAN (Option)	Realtek RTL8100BL 10/100 LAN Chip Onboard
LPC	Winbond W83627HF-AW 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	H/W Monitoring (CPU/System TEMP, All FAN speed, Voltage)	PASS
5	LogoGenie	PASS
	FirstAID (H/W monitor)	PASS
	BIOS Easy Kit	PASS
	BIOS Flash Protect (Guardian feature)	PASS
6	Ultra ATA-33/66/100 Enhanced IDE Interface	PASS
7	Onboard Sigmatel STAC9750 AC'97 codec Audio	PASS
8	Onboard Realtek RTL8100BL 10/100 LAN	PASS
9	Onboard C-Media 8738 5.1CH Audio (with A73 bracket)	PASS
10	Onboard HighPoint HPT372 IDE RAID	PASS
11	USB 1.1/2.0 Function (Front/Rear)	PASS
12	Power Failure feature	PASS

4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	Intel Chipset Software Install Utility	4.00.1013	PASS
2	C-Media 8738 Audio driver	5.12.01.0637	PASS
3	Sigmatel STAC9750 AC'97 codec driver	3009	PASS
4	Realtek RTL8100BL LAN driver	5.503.326.2002	PASS
5	HighPoint HPT372 IDE RAID	2.31.1.25	PASS
6	Intel ICH4 USB 2.0	5.1.2600	PASS
7	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)	PW_LED	Open	Pass
Power LED (Single color-2 pin)	PW_LED1	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/ Clear Password	JP1	2-3	Pass
Host Frequency Jumper	FS4	1-2	Pass
IR interface	IRRX/IRTX	Open	Pass
Front USB Connector	USB2/3,USB4/5	Open	Pass
CD_IN Connector (RGGL)	CD_IN	Open	Pass
AUX_IN Connector	AUX_IN	Open	Pass
Front Audio Connector	F_Audio	5-6,9-10	Pass
5.1 Channel Audio Connector (For FIC A73 Audio bracket)	5.1_Audio	Open	Pass
Memory Stick Connector	Memory_Stick	Open	Pass
Smart card Reader Connector	Smart_card	Open	Pass

6. Stability Test

6.1 CPU Over Clock Test:

System Configuration	
CPU : Intel P4 2.4GHz (FSB533)	FDD : NEC FD1231T 1.44MB
Cache Memory : 512KB	Audio : Onboard C-Media 8738 Audio
Memory : SEITEC DDR266 512MB X 2	LAN : Onboard Realtek 8100BL
HDD (ATA/100) : IBM IC35L060A 60GB	Mouse : Microsoft PS/2 mouse
VGA : ELSA GLADIAC	PowerSupply : Enlight HPC-340-101 ATX 340W
DVD-ROM : Actima AD12H 12X 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	137MHz	2.46GHz	Pass	Pass	Pass	60.1	4068
2	139MHz	2.50GHz	Pass	Pass	Pass	60.7	4074

6.2 Full Loading Test: (1days)

System Configuration	
CPU : Intel P4 2.4GHz (FSB533)	PCI 1 : Adaptec ASC-29160 SCSI
Cache Memory : 512KB	PCI 2 : Intel 82559 10/100 LAN
Memory : Samsung DDR266 256MB x 2	PCI 3 : Accton EN12070-TX LAN
HDD1 : Maxtor 6L080J4 80GB	PCI 4 : Askey 1456VQH75 modem
HDD2 : IBM IC35L060A 60GB	PCI 5 : Askey 1456VQH-R4 modem
DVD-ROM : Aopen DVD1648 16X	PCI 6 : Adaptec ASC-19160 SCSI
DVD-ROM : Pioneer DVD-105S 16X	Audio : Onboard C-Media 8738 Audio
VGA : ELSA GLADIAC AGP	LAN : Onboard Realtek 8100BL
FDD : NEC FD1231T 1.44MB	PowerSupply : Enlight HPC-340-101 ATX 340W
Mouse : Microsoft PS/2 mouse	O.S. Environment: Windows XP/Home Edition

Test Result						
BIOS detect	Install OS	All driver install	S3	CC WS 2002	3D Mark 2001 SE	Stress burn in
Pass	Pass	Pass	Pass	36.0	4040	Pass

6.3 PCB Cool Boot Test: (12 hours)

System Configuration	
CPU : Intel P4 2.26GHz (FSB533)	FDD : NEC FD1231T 1.44MB
Cache Memory : 512 K	PowerSupply : HOPELY ATX-250SE-P4 250W
Memory : DDR DRAM 384MB(256MBx2)	
VGA : ELSA GLADIAC MX AGP	

Test Result	
Cool Boot (over 600 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 2.4GHz (Northwood/FSB400) Maxtor 4K080H4 ATA/100 80GB HDD KingSton 512MB DDR266 Memory. (Winbond) X 2 ASUS V8440 AGP	
CC Winstone 2002 Under WIN 2000	12hr.	<i>Pass</i>
Test Configurations for Windows 2000	Intel Pentium 4 2.53GHz(Northwood/FSB533) Maxtor 54098H8 ATA/100 40GB HDD Transcend 256MB DDR266 Memory.(Micron) X 2 ELSA GLADIAC 311 AGP(Geforce2 MX200)	
BCM	12hr.	<i>Pass</i>
Test Configurations for Windows ME	Intel Pentium 4 1.8GHz (Willamette/FSB400) Maxtor 54098H8 ATA/100 40GB HDD Infineon 256MB DDR266 Memory.(Infineon) X 3 ELSA GLADIAC 516 AGP	
3D MARK 2001 SE	12hr.	<i>Pass</i>
Test Configurations for Windows XP	Intel Pentium 4 2.26GHz (Northwood/FSB533) Seagate ST-330631A ATA/100 30.6GB HDD SEITEC 512MB DDR266 Memory.(SEITEC) X 2 FIC AT-008-275 AGP (ATI Radeon 8500)	
DVD Play	12hr.	<i>Pass</i>
Test Configurations for Windows XP	Intel Pentium 4 2.26GHz (Northwood/FSB533) Seagate ST-330631A ATA/100 30.6GB HDD Samsung 512MB DDR266 Memory.(Samsung) X 2 FIC AT-008-275 AGP (ATI Radeon 8500) NEC DV-5700B 12X IDE DVD-ROM DVD name: Deep Blue Sea	

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 2.4GHz (FSB533)

☒ Intel

HDD Maxtor 98196H8 80GB IDE

☒ ATA/66 ☒ ATA/100

Channel: ☒ PM ☒ PS ☒ SM ☒ SS

VGA Gainward 4400XP AGP

☒ Onboard ☒ AGP 4X

CD-ROM Panasonic SR-8587-B 16X DVD

Channel: ☒ PM ☒ PS ☒ SM ☒ SS

Sound C-Media 8738 5.1CH

☒ PCI_Slot: ☒ On board

LAN Realtek RTL8100BL

☒ 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 and run Memtest 2.8 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.
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
Samsung	K4H280838B-TCB0	256MB	D	M368L3313BT1-CB0
	K4H560838B-TCB0	512MB	D	M368L6423BT1-CB0Q0
Buffalo	K4H280838B-TCB0 (Samsung)	128MB	D	PC266DD128N8C
Apacer	K4H280838B-TCB0 (Samsung)	128MB	D	77.10304.460
	K4H280838B-TCB0 (Samsung)	256MB	D	77.10204.460
	NT5DS16M8AT-7K (Nayna)	256MB	D	77.10203.540
Crucial	MT46V16M8-75A (Micron)	128MB	S	CT1672Z265.9T
	MT46V16M8-75A (Micron)	256MB	D	CT3272Z265.18T
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
	MT46V16M8-75A (Micron)	128MB	D	TS16MLD64V6D5
	W942508AH-75 (Winbond)	512MB	D	
Infineon	HYB25D128800AT-7	128MB	D	HYS64D16000GU-7-A
	HYB25D256800AT-7	256MB	D	HYS64D32000GU-7-A
	HYB25D256800AT-7	512MB	D	HYS64D64020GU-7-A
Kingston	NT5DS16M8AT-7K (Nanya)	256MB	D	KVR266X64C25/256
	W942508AH-75 (Winbond)	256MB	S	KVR266X64C25/256
	W942508AH-75 (Winbond)	512MB	D	KVR266X64C25/512
Elixir	N2DS12880AT-75B (elixir)	256MB	D	M2U25664DS8HA0G-75B
TwinMOS	HY5DU28822AT-K	256MB	D	



takeMS	MS25D12880S-7 (takeMS)	256MB	D	MS64D32020U-7
SEITEC	DDR32M8AT-7 (SEITEC)	512MB	D	184DR512M638

8.2 Add-on Cards

8.2.1 Display Adapter Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002

CPU Intel Pentium 4 2.26GHz (FSB533) ☒ Intel

HDD Seagate ST-330631A 30.6GB IDE ☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

Memory SEITEC 512MB(SEITEC)

Total: 1000 MB ☐ PC1600 ☒ PC2100

CD-ROM NEC DV-5700B 12X IDE DVD

Channel: ☐ PM ☐ PS ☒ SM ☐ SS

Sound C-Media 8738 5.1CH

☐ PCI_Slot: ☒ On board

LAN Realtek RTL8100BL

☐ PCI_Slot: ☒ On board

Mouse Logitech MouseMan Mouse

☐ COM ☒ PS/2

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

8.2.1.1 AGP Display Adapter Products

Vendor	VGA Chip	Product Description	Driver version
Leadtek	GeForce256	Winfast GeForce256	5.13.01.2183
	GeForce2 MX	Winfast GeForce2 MX	5.13.01.2183
	GeForce2 GTS	Winfast GeForce2 GTS	5.13.01.2183
	Geforce3	WinFast Geforce3	6.13.10.2832
	GeForce4 MX 400	A170 DDR	6.13.10.2750
	GeForce4 MX 420	A170 TH	6.13.10.2832
	GeForce4 Ti 4400	A250 TD	6.13.10.2832
	GeForce4 Ti 4200	A250 LE TD	6.13.10.2832
	GeForce4 Ti 4600	A250 Ultra TD	6.13.10.2832
Matrox	MGA-G450	Millennium G450	5.12.01.1820
	MGA-G550	Millennium G550	5.13.01.1320
ATI	ATI Rage 128 Pro	ATI Rage Fury Pro	6.13.3279
	Rage 128 Pro	XPert 2000 Pro	6.13.3279
	Radeon	Radeon	6.13.10.6037
	Radeon VE	Radeon VE	6.13.10.6071
	Radeon	All-In-Wonder Radeon	6.13.10.6071
	Radeon 7500	Radeon 7500	6.13.10.6071
	Radeon 8500 LE	Radeon 8500 LE	6.13.10.6071
	Radeon 8500	Radeon 8500	6.13.10.6071
FIC	ATI Radeon 7500	AT008V-L (230MHz)	6.13.10.6015
	ATI Radeon 7500	AT008V (270MHz)	6.13.10.6015
	ATI Radeon 8500 LE	AT008-250 (250MHz)	6.13.10.6015
	ATI Radeon 8500	AT008-275 (275MHz)	6.13.10.6015
Cardex	GeForce2 MX	GeForce2 MX	6.13.10.2832
ASUS	TNT2 Pro	AGP-V3800 Pro	6.13.10.2880
	GeForce 256	AGP-V6600	6.13.10.2880

	GeForce256 DDR	AGP-V6800	6.13.10.2880
	GeForce2 MX	AGP-V7100	6.13.10.2880
	GeForce2 GTS	AGP-V7700	6.13.10.2880
	GeForce2 GTS	AGP-V7700 Deluxe	6.13.10.2880
	GeForce2 Ti200	AGP-V7700 TI	6.13.10.2880
	GeForce3	AGP-V8200 Deluxe	6.13.10.2880
	GeForce3 Ti200	AGP-V8200 T2 Deluxe	6.13.10.2880
	GeForce3 Ti500	V8200 T5 Deluxe (TV out)	6.13.10.2880
	GeForce4 MX 400	V8170 DDR(TV out)	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
Compro	GeForce4 Ti 4600	VideoMate Cinema / GeForce4 Ti 4600	2.9.4.2
Creative	Geforce 256	3D Blaster GeForce Pro	6.13.10.2750
	GeForce2 GTS	3D Blaster Geforce2 GTS	6.13.10.2832
Visiontek	Geforce3	Geforce3 (TV out)	6.13.10.2832
Top Solution	SiS 315 + 301	3D Thriller	5.13.01.2000
Gainward	GeForce3 Ti200	GeForce3 PowerPack !!!	6.13.10.2832
	GeForce4 MX 420	420T	6.13.10.2832
	GeForce4 Ti 4400	4400XP	6.13.10.2832
	GeForce4 Ti 4600	4600XP	6.13.10.2832
ELSA	Geforce2 GTS	GLADIAC	6.13.10.2832
	GeForce2 MX	GLADIAC MX	6.13.10.2832
	Geforce2 Ultra	GLADIAC Ultra	6.13.10.2311
	Geforce2 GTS Pro	GLADIAC Pro	6.13.10.2751
	GeForce2 MX 200	GLADIAC 311	6.13.10.2751
	GeForce2 MX 400	GLADIAC 511	6.13.10.2751
	GeForce2 Ti	GLADIAC 516TV-Out	6.13.10.2751
	GeForce3	GLADIAC 920	6.13.10.2832
	GeForce3 Ti200	GLADIAC 721TV-Out(64MB)	6.13.10.2832
	GeForce3 Ti200	GLADIAC 721TV-Out(128MB)	6.13.10.2832
	GeForce3 Ti500	GLADIAC 921 DVI	6.13.10.2832
	GeForce4 Ti 4200	GLADIAC 525	6.13.10.2832
	GeForce4 Ti 4600	GLADIAC 925ViVo	6.13.10.2832

8.2.1.2 PCI Display Adapter Products

The following PCI VGA cards test 3Dmark 2000/WinBench 99 under Windows XP with Win XP default drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

Vendor	VGA Chip	Product Description
Creative	S3 Savage 4	3D Blaster Savage 4 PCI VGA
3dfx	Voodoo3 3000	Voodoo3 3000 PCI VGA
	Voodoo5 5500	Voodoo5 5500 PCI VGA



8.2.2 SCSI Adapter Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002 .
☒ Win 2000 Ver: 5.00.2195 .
CPU Intel Pentium 4 2.4GHz (FSB533) ☒ Intel
Memory Elixir 256MB (Elixir) **Total: 512 MB** ☐ PC1600 ☒ PC2100
VGA ELSA GLADIAC ☐ Onboard ☒ AGP 4X
HDD IBM DMVS IEC-950 36GB ☐ Ultra II SCSI ☒ Ultra II Wide
CD-ROM Plextor PX-40Tsi 40X SCSI CD-ROM ☒ Ultra SCSI ☐ Ultra Wide
Sound C-Media 8738 5.1CH ☐ 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 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-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 2.4GHz (FSB533) ☒ Intel
Memory SEITEC 512MB(SEITEC) **Total: 1000 MB** ☐ PC1600 ☒ PC2100
VGA ELSA Gladiac 511 ☐ Onboard ☒ AGP 4X
HDD Maxtor 6L060J3 60GB IDE ☐ ATA/100 ☒ ATA/133
CD-ROM Lite-On LTD-163 16X IDE DVD **Channel: ☒ PM ☐ PS ☐ SM ☐ SS**
Sound C-Media 8738 5.1CH **Channel: ☐ PM ☐ PS ☒ SM ☐ SS**
LAN Realtek RTL8100BL ☐ PCI_Slot:___ ☒ On board
Mouse Microsoft IntelliMouse PS/2 Mouse ☐ PCI_Slot:___ ☒ On board
☐ COM ☒ PS/2

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

Vendor	Product Description	Bus I/F
Askey	1456VQH75	PCI



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 2.4GHz(FSB533) ☒ Intel

Memory Infineon 512MB (Infineon) Total: 1000 MB ☐ PC1600 ☒ PC2100

VGA ELSA Gladiac 511 ☐ Onboard ☒ AGP 4X

SCSI ASC-19160 Ultra160 Wide SCSI ☐ ISA ☒ PCI_Solt: 2

Mouse Logitech First Mouse+ Mouse ☐ COM ☒ PS/2

The following SCSI devices run CC WinStone 2002 or copy large file(over 500MB) under Windows XP/2000 with their respective SCSI drivers installed and set to the follow condition 1024 x 768 x 32bit colors, resolution refresh rate of 85Hz, small font.

ITEM	Vendor	Model Name	Product Description
Hard Disk	IBM	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
		ST-39236LW	Barracuda Ultra160 Wide 9GB
		ST-318437LW	Barracuda Ultra160 Wide 18GB
		ST-39204LW	Cheetah Ultra160 Wide 9GB
		ST-318406LW	Cheetah Ultra160 Wide 18GB
		ST318452LW	Cheetah Ultra160 Wide 18GB
CD-ROM	Plextor	PX-40Tsi	Ultra SCSI CD-ROM 40X
		PX-W124Tsi	(32R12W4RW) CD-RW 32X
	Toshiba	XM-6210B	Ultra SCSI CD-ROM 32X
		CR-508	SCSI-II CD-ROM 24X
	Panasonic	LF-D291	SCSI-II 4.7GB DVD-RAM
		CD-2050S	Ultra SCSI CD-ROM 50X
	TEAC	CD-532S	Ultra SCSI CD-ROM 32X
		CDR 56S	(24R6W) CD-RW 24X
		CD-W512S-B82	(32R12W10RW) CD-RW 32X
	Nichimen	CDR-BP3N	(32R12W10RW) CD-RW 32X
	YAMAHA	CRW2100S	(40R16W10RW) CD-RW 40X
MO	Gish	GF-640	Super MO External MO
	Fujitsu	MDG3064SS	DYNA MO 640 SF
ZIP	Iomage		SCSI ZIP 250 (External)

8.3.2 IDE Fixed Disk Drive Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002.
☒ Win 2000 Ver: 5.00.2195.
CPU Intel Pentium 4 2.26GHz(FSB533) ☒ Intel
Memory KingMAX 256MB (KingMAX) **Total: 512 MB** ☐ PC1600 ☒ PC2100
VGA Gainward 420T ☐ Onboard ☒ AGP 4X
CD-ROM SONY DDU1621 16X IDE DVD **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound C-Media 8738 5.1CH ☐ PCI_Slot: ☒ On board
LAN Realtek RTL8100BL ☐ PCI_Slot: ☒ On board
Mouse Logitech First Mouse+ Mouse ☐ COM ☒ PS/2

The following IDE devices test and WinStone 2001/CC Winstone 2002/WinBench 99/Copy large files(over 500MB)under Windows XP/2000 with Win XP/2000 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
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 WD1000BB	100GB
	Caviar WD1200BB	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

* Intel ICH4 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 2.26GHz(FSB533)

☒ Intel

Memory Transcend 128MB (Micron)

Total: 384 MB ☐ PC1600 ☒ PC2100

VGA ATI Radeon 8500 LE

☐ Onboard ☒ AGP 4X

HDD Maxtor 4W100H6 100GB IDE

☐ ATA/66 ☒ ATA/100

Channel: ☒ PM ☐ PS ☐ SM ☐ SS

Sound C-Media 8738 5.1CH

☐ PCI_Slot: ☒ On board

LAN Realtek RTL8100BL

☐ PCI_Slot: ☒ On board

Mouse Logitech TrackmanMarble Mouse

☐ COM ☒ PS/2

The following IDE devices test play VCD or DVD under windows XP with Win XP 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 UDMA33
	LTN-485S	ATAPI CD-ROM 48X UDMA33
Acer	650P	ATAPI CD-ROM 50X UDMA33
TEAC	CD-540E	ATAPI CD-ROM 40X Mode4
Creative	CD4833E	ATAPI CD-ROM 48X Mode4
	CD5220E	ATAPI CD-ROM 52X Mode4

ASUS	CD-S500/A	ATAPI CD-ROM 50X UDMA33
Mitsumi	CRMC-FX4820T	ATAPI CD-ROM 48X Mode4
	FX5400W	ATAPI CD-ROM 54X Mode4
SONY	CDU4811	ATAPI CD-ROM 48X UDMA33
AOpen	CD-952E/AKH	ATAPI CD-ROM 52X UDMA33
LG	CRD-8522B	ATAPI CD-ROM 52X Mode4
YAMAHA	Audio Extractor	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-115	ATAPI DVD-ROM 16X
	DVD-106S/2	ATAPI DVD-ROM 16X (UDMA66)
	DVD-116/2	ATAPI DVD-ROM 16X (UDMA66)
NEC	DV-5700B	ATAPI DVD-ROM 12X (UDMA33)
	DV-5800A	ATAPI DVD-ROM 16X (UDMA33)
Panasonic	SR-8587-B	ATAPI DVD-ROM 16X
	LF-D211V	4.7GB DVD-RAM
Acer	DVP1640A	ATAPI DVD-ROM 16X
Creative	DVD1242E	ATAPI DVD-ROM 12X
LG	DRD-8120B	ATAPI DVD-ROM 12X
LITE-ON	LTD-122	ATAPI DVD-ROM 12X
	LTD-163	ATAPI DVD-ROM 16X
Actima	AD16H	ATAPI DVD-ROM 16X
AOpen	DVD1648	ATAPI DVD-ROM 16X (UDMA66)

8.4 Peripherals

8.4.1 Parallel/Serial Port Products (Including IR)

Test Configuration:

OS Ver ☒ Win XP Ver: 2002
CPU Intel Pentium 4 2.0GHz(FSB400) ☒ Intel
Memory KingSton 256MB(Winbond) **Total:** 512 MB ☐ PC1600 ☒ PC2100
HDD Seagate ST-340824A 40GB IDE ☐ ATA/66 ☒ ATA/100
CD-ROM Creative DVD1242E 12X IDE DVD **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
VGA ASUS V8170 DDR **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound C-Media 8738 5.1CH ☐ Onboard ☒ AGP 4X
LAN Realtek RTL8100BL ☐ PCI_Slot: ☒ On board
Mouse Logitech TrackMan Marble Mouse ☐ PCI_Slot: ☒ On board
☐ COM ☒ PS/2

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

Vendor	Product Description	Bus I/F
Iomage	ZIP 250	LPT
HP	LaserJet 6P	LPT
	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/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 2.26GHz(FSB533) ☒ Intel
Memory TakeMS 256MB (takeMS) **Total:** 512 MB ☐ PC1600 ☒ PC2100
HDD Seagate ST-340016A 40GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM Aopen CD-952E 52X IDE **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA ELSA GLADIAC ☐ Onboard ☒ AGP 4X
Sound C-Media 8738 5.1CH ☐ 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	Optical U/P Mouse (X05-48976)	USB/PS2
	Optical U/P Mouse (X06-25122)	USB/PS2
	Explorer 3.0 U/P Mouse (X06-25120)	USB/PS2
	TrackBall Explorer 1.0 U/P Mouse (X05-87473)	USB/PS2
Logitech	MouseMan (M-CV46)	COM/PS2
	MouseMan Dual Optical (M-BL63B)	COM/PS2
eMachines	M-S34 (Logitech)	PS2
Samsung	Cyber Beetle Mouse (Optical)	PS2
Genius	NetScroll Optical	PS2
	NetScroll+ Eye Optical	PS2
	NetScroll+ NB Eye Optical	USB/PS2
LEO	Niche-N202	PS2
	LEO-WIN	PS2

8.4.3 USB Device Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002.
CPU Intel Pentium 4 1.73GHz(FSB533) ☒ Intel
Memory KingSton 512MB(Winbond) **Total:** 1000 MB ☐ PC1600 ☒ PC2100
HDD Maxtore 4K040H2 40GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM YAMAHA Audio Extractor 52X IDE **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA ELSA GLADIAC 925ViVo ☐ Onboard ☒ AGP 4X
Sound C-Media 8738 5.1CH ☐ PCI_Slot: ☒ On board
Mouse Logitech First Mouse+ Mouse ☐ COM ☒ PS/2

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

8.4.3.1 USB 1.1 Devices

Type	Vendor	Description
Mouse	Logitech	USB Wheel Mouse (M-BB48)
		USB MouseMan Wheel (M-BA47)
		USB Wheel Mouse (Optical) (M-BD58)
		MouseMan Dual Optical (M-BL63B)
	Microsoft	IM Optical U/P Mouse (X05-48976)
		IM Optical U/P Mouse (X06-25122)
		IM Explorer 3.0 U/P Mouse (X06-25120)
		TrackBall Explorer U/P Mouse (X05-87473)
		Wireless Explorer USB Mouse (X08-12616)
HUB	Belkin	Express Bus F5U001
	SOHOUSB	Unique Energy Saving (4-Port USB Hub)
Camera	Intel	YC72
	Kodak	DVC323
	IBM	XVP610
Keyboard	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
	HP	ScanJet 4200C
Speaker	YAMAHA	YST-MS35D
MO	OLYMPUS	Turbo MO MINI (MOS3390S)
HDD	Vipower	VP-8058 Mobile USB Adapter
ZIP	iomega	ZIP 250
CD-RW	SONY	Spessa CD-ReWritable Recorder
FDD		Generic USB FDD
GamePad	Logitech	WingMan Extreme USB GamePad
	Microsoft	SideWinder Strategic Commander
	Microsoft	SideWinder Game Voice
Joystick	Logitech	WingMan Formula Force joystick
	Microsoft	SideWinder Precision 2

8.4.3.2 USB 2.0 Devices

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

Scanner	EPSON	Perfection 2450 Photo
MO	Fujitsu	DYNA MO 1300U2 (MDG3130UB)

8.4.4 Game Port Device Products

Test Configuration:

OS Ver ☒ Win XP Ver: 2002.
CPU Intel Pentium 4 2.26GHz(FSB533) ☒ Intel
Memory TakeMS 256MB (takeMS) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD Seagate ST-340016A 40GB IDE ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
CD-ROM Aopen CD-952E 52X IDE **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
VGA ELSA GLADIAC ☐ Onboard ☒ AGP 4X
Sound C-Media 8738 5.1CH ☐ PCI_Slot: __. ☒ On board

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 2000 Ver: 5.00.2195
CPU Intel Pentium 4 2.26GHz(FSB533) ☒ Intel
Memory Buffalo 128MB(Samsung) **Total: 384 MB** ☐ PC1600 ☒ PC2100
HDD Seagate ST-340016A 40GB IDE ☐ ATA/66 ☒ ATA/100
CD-ROM Actima AD16H 16X IDE DVD **Channel:** ☒ PM ☐ PS ☐ SM ☐ SS
VGA ASUS V8200 T5 Deluxe **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound C-Media 8738 5.1CH **Onboard** ☒ AGP 4X
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 2000 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
Enlight	HPC-340-101	340W	110/220	ATX
ENERMAX	EG301P-VE	300W	110/220	ATX
Seasonic	SS-250FS	250W	110/220	ATX
ICute	P4-3000TC v2.03	300W	110/220	ATX
L&C	LC-A250ATX	250W	110/220	ATX
Good Vision	XP-375X	375W	110/220	ATX
Green An	ATX-1125BTA	300W	110/220	ATX
	ENP-0735	350W	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
..QY	QY-300T	300W	220	ATX
....	ST-ATX325	300W	220	ATX
STR	SPS-300W Rev:03	300W	220	ATX

9. Software Compatibility Test Suite

9.1 Base Operating System

9.1.1 Microsoft Windows 98 SE:

Test Configuration:

CPU Intel Pentium 4 1.9GHz(FSB400) ☒Intel
Memory KingMax 256MB(KingMax) **Total: 512 MB** ☐PC1600 ☒PC2100
HDD WD Caviar WD600BB 60GB IDE ☐ATA/66 ☒ATA/100
Channel: ☒PM ☐PS ☐SM ☐SS
VGA ELSA GLADIAC 921 DVI ☐Onboard ☒AGP 4X
Sound C-Media 8738 5.1CH ☐PCI_Slot:__. ☒On board
CD-ROM NEC DV-5800A 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	
Format FDD		PASS	
FIC CD-PRO all M/B drivers Install & Test		PASS	
FIC CD-PRO all Application Install & Test		PASS	
CoreTest 92 (Transfer Rate test)		PASS	
Large file Copy from CD/DVD-ROM (Over 500MB)		PASS	
Device Management check (No Caution)		PASS	
VGA Resolution/Color change		PASS	
Defrag test		PASS	
Install Office XP		PASS	
Auto Shutdown (system power off)		PASS	
DVD play (name: <i>A Fistful Of Dollars</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	
WinStone 2001		PASS	36.0
CC WinStone 2002		PASS	18.0
3D Mark 2001 SE		PASS	7280

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(FSB400) ☒ Intel
Memory KingSton 256MB(Samsung) **Total:** 512 MB ☐ PC1600 ☒ PC2100
HDD Maxtor 54098H8 40.9GB IDE ☐ PIO4 ☐ ATA/66 ☒ ATA/100
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
VGA FIC AT008-275 (Radeon 8500) ☐ Onboard ☒ AGP 4X
Sound C-Media 8738 5.1CH ☐ 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	
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>A Fistful Of Dollars</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	
WinStone 2001	PASS	45.4
CC WinStone 2002	PASS	19.6
3D Mark 2001 SE	PASS	7576

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 2.53GHz(FSB533) ☒ Intel
Memory Micron 512MB(Micron) **Total: 1000 MB** ☐ PC1600 ☒ PC2100
HDD Maxtor 6L060J3 60GB IDE ☐ ATA/66 ☐ ATA/100 ☒ ATA/133
Channel: ☒ PM ☐ PS ☐ SM ☐ SS
VGA Leadtek A250 Ultra TD ☐ Onboard ☒ AGP 4X
Sound C-Media 8738 5.1CH ☐ PCI_Slot:___ ☒ On board
CD-ROM Pioneer DVD-116 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 XP with NTFS (boot from CD)		PASS	
FIC CD-PRO all M/B drivers Install & Test		PASS	
FIC CD-PRO all Application Install & Test		PASS	
Device Management check (No Caution)		PASS	
Large file Copy from CD/DVD-ROM (Over 500MB)		PASS	
Install Office XP		PASS	
Media Player 8.0 (play MIDI/MP3/CD Audio)		PASS	
Defrag test		PASS	
DVD play (name: <i>A Fistful Of Dollars</i>)		PASS	
Power Management (Stand By function)	Power button	PASS	
	Keyboard Sleep Key	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
S3 (Suspend To Memory)	Power button	PASS	
	Keyboard Sleep Key (98keyboard)	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
Hibernate (Suspend To Disk)	Power button	PASS	
	Start → Hibernate item	PASS	
	Time Out	PASS	
System Shutdown	Power button	PASS	
	Start → Shut down item	PASS	
WinStone 2001		PASS	60.6
CC WinStone 2002		PASS	40.1
3D Mark 2001 SE		PASS	10979

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 2.4GHz(FSB533) ☒Intel
Memory Samsung 512MB(Samsung) **Total:** 1000 MB ☐PC1600 ☒PC2100
HDD WD Caviar WD1000BB 100GB IDE ☐PIO4 ☐ATA/66 ☒ATA/100
Channel: ☒PM ☐PS ☐SM ☐SS
VGA Gainward 4400XP ☐Onboard ☒AGP 4X
Sound C-Media 8738 5.1 H ☐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>A Fistful Of Dollars</i>)		PASS	
Power Management (Stand By function)	Power button	PASS	
	Keyboard Sleep Key	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
S3 (Suspend To Memory)	Power button	PASS	
	Keyboard Sleep Key (98keyboard)	PASS	
	Start → Stand By item	PASS	
	Time Out	PASS	
Hibernate (Suspend To Disk)	Power button	PASS	
	Start → Hibernate item	PASS	
	Time Out	PASS	
System Shutdown	Power button	PASS	
	Start → Shut down item	PASS	
WinStone 2001		PASS	56.7
CC WinStone 2002		PASS	37.8
3D Mark 2001 SE		PASS	10200

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
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9.1.5 Microsoft Windows NT 4.0 + Service Pack 6:

Test Configuration:

CPU Intel Pentium 4 2.53GHz(FSB533) ☒Intel
Memory Infineon 512MB(Infineon) **Total: 1000 MB** ☐PC1600 ☒PC2100
HDD IBM IC35L060A 60GB IDE ☐PIO4 ☐ATA/66 ☒ATA/100
VGA Matrox Millennium G550 **Channel:** ☒PM ☐PS ☐SM ☐SS
Sound C-Media 8738 5.1CH ☐Onboard ☒AGP 4X
CD-ROM Lite-On LTD-163 16X DVD-ROM **PCI_Slot:** ☐ ☒On board
Mouse Logitech Mouse+ Mouse **Channel:** ☐PM ☐PS ☒SM ☐SS
☐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	
DVD play (name: <i>A Fistful Of Dollars</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 2.4GHz(FSB533) ☒ Intel
Memory Apacer 256MB (Nanya) **Total: 512 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 Power Management and Remote functions are also tested.

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

* C-Media 8738/Sigmatel AC'97 Audio doesn't have driver to support OS/2.

9.1.7 LINUX :

Test Configuration:

CPU Intel Pentium 4 1.73GHz(FSB533) ☒ Intel
Memory Apacer 256MB (Nanya) **Total: 512 MB** ☐ PC1600 ☒ PC2100
HDD WD Caviar WD1000BB 100GB IDE ☐ ATA/66 ☒ ATA/100
VGA ELSA GLADIAC **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





Test Engineer:

BIOS: Benson Shen

OS: Kai Dane

I/O : Leon Liang

Audio: Lion Liou

CPU: Stevent Huang

VGA: Scott Lin

Memory: Kevin Lin

IDE Devices: Frando Tzeng

Power: RIC Lu

Check by: Lion Liou

Ownership: Benson Shen