

FIC FW37 PCI/AMR SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

Product Version:	<i>V 1.3</i>
BIOS Version:	IBA43
Report Date:	2/09/2001
Revision:	1.06

Revision History

Document Release	Date	Change Item	ECN
Revision 1.01	4/25/2000	Add support Intel Coppermine 850/866MHz CPU Add FIC Standard boot screen logo on BIOS.	
Revision 1.02	5/31/2000	Add support Intel Coppermine 933MHz CPU Modify SDRAM list and add support KingMax/ KingSton DRAM. Add support Quantum Fireball Plus LM 20.5GB ATA/66 IDE HDD.	
		BIOS version update to IBA42 Remove "S3"(STR) function from BIOS. Add support Intel Celeron 566/600/667MHz CPU	M99B01-E-013
Revision 1.03	7/07/2000	BIOS version update to IBA43 Add support Cyrix III(Samuel) 533/550/600MHz CPU	M99B01-E-042
Revision 1.04	8/09/2000	Add support PROMISE ATA/100 PCI IDE card Add support IBM DTLA series ATA/100 IDE HDD	
Revision 1.05	10/05/2000	Add support Windows ME (Millennium Edition)	
Revision 1.06	2/09/2001	Add support Intel Celeron 700/766/800MHz CPU	

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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 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 : FW37 PCB Rev 1.3
Product Name : Intel 810E chipset Based Mainboard
System BIOS : Award BIOS Version IBA43
PCI IDE : Internal PCI Master dual IDE
I/O(LPC) : Winbond W83627HF-AW

3. Mainboard CPU Supports:

Intel:

Intel Processors	Bus	Package	Status
Celeron 300MHz (with 128K cache)	66	PPGA	Pass
Celeron 333MHz	66	PPGA	Pass
Celeron 366MHz	66	PPGA	Pass
Celeron 400MHz	66	PPGA	Pass
Celeron 433MHz	66	PPGA	Pass
Celeron 466MHz	66	PPGA	Pass
Celeron 500MHz	66	PPGA	Pass
Celeron 533MHz	66	PPGA/FC-PGA	Pass
Celeron 566MHz	66	FC-PGA	Pass
Celeron 600MHz	66	FC-PGA	Pass
Celeron 667MHz	66	FC-PGA	Pass
Celeron 700MHz	66	FC-PGA	Pass
Celeron 766MHz	66	FC-PGA	Pass
Celeron 800MHz	100	FC-PGA	Pass
Pentium III 500MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 533MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 550MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 600MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 600MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 650MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 667MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 700MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 733MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 750MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 800MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 850MHz (Coppermine)	100	FC-PGA	Pass
Pentium III 866MHz (Coppermine)	133	FC-PGA	Pass
Pentium III 933MHz (Coppermine)	133	FC-PGA	Pass

Cyrix :

Cyrix Processors	Bus	Package	Status
Cyrix III 533MHz	133	FPGA	Pass
Cyrix III 550MHz	100	FPGA	Pass
Cyrix III 600MHz	133	FPGA	Pass

4 System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
System Core Logic	FW37 use Intel 810E chipset (with 4MB Display Cache)
System Memory	Maximum : 512MB SDRAM
	168 pins single RAS and Double RAS DIMM RAM Module
System Slots	3 PCI / 1 AMR slots
System Audio	Intel 810 AC'97 Audio with AD1881 codec
LAN	Realtek RTL8139B/C 10/100 Fast Etherlink
IO Corelogic	Winbond W83627HF-AW Support Normal,EPP,ECP mode and IR interface
PCI IDE	Intel 810E ICH internal Bus Master PCI IDE.

4.1 Main Functionality :

Num.	M/B function	Result
1	ACPI Ready (under Win 98 SE/Win 2000)	PASS
2	APM 1.2	PASS
3	Wake On LAN/Ring	PASS
4	RTC Alarm Function	PASS
5	AMR interface ready	PASS
6	Power On by Keyboard/PS2 mouse feature	PASS
7	Ultra ATA-33/66 Enhanced IDE Interface	PASS
8	Audio Alert	PASS
9	Logo Genie	PASS
10	BIOS Easy Kit	PASS
11	Overclock Partner	PASS
12	USB Function	PASS
13	Year 2000 Compliance	PASS

4.2 Main Software Utilities :

Num.	M/B function	Version	Result
1	Intel 810E IDE Bus Master driver for Win 98/98SE	5.01	PASS
2	Intel 810E patch file for Win 98/98SE	2.2	PASS
3	Intel 810E AGP driver for Win 98/98 SE	4.11.01.2523	PASS
4	Intel 810E AGP driver for Win NT	4.03.1381.2523	PASS
5	Realtek RTL8139B/C LAN driver for Win 98	4.364.0719	PASS
6	AD1881 AC'97 Audio codec driver for Win 98	5.00.2238	PASS
7	AD1881 AC'97 Audio codec driver for Win NT	4.02.0021	PASS

8	Award BIOS Flash ROM Utilities	7.64A	PASS
9	Award DMICFG Utilities for DOS	2.3Du	PASS

5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
Speaker Connector	SPEAKER	Open	Pass
Power LED	POWER LED	Open	Pass
Sleep button	SUS BTN	Open	Pass
Sleep LED	SUS LED	Open	Pass
IDE LED Connector	HDD LED	Open	Pass
Reset Switch	RESET BTN	Open	Pass
Remote Power Switch	PWR SW	Open	Pass
Message LED	MLED	Open	Pass
CPU FAN Connector	FAN1	Open	Pass
Chassis FAN Connector	FAN2	Open	Pass
Clear CMOS	CLR CMOS	1-2	Pass
Clear Password	CLR PWD	Open	Pass
LAN Enabled	LAN EN	Close	Pass
IR interface	I.R.	Open	Pass
Processor Select	Intel/Joshua	1-2/1-2	Pass
Over Clock	Over CLK	2-3	Pass
LAN Wake Up	WOL	Open	Pass

6. Stability Test

6.1 Worst Case (Full Loading) Test : (1 day)

System Configuration		
CPU	: Pentium III 800	VGA/Audio : Onboard Intel 810E AGP
Cache Memory	: 256 K	Power Supply : Lite-on PS-5141-4 145W SFX
Memory	: Apacer 64MB SDRAM x 2	
HDD	: Fujitsu MPE3204AH 20GB	
FDD	: Mitsumi D353F3 1.44MB	
CD ROM	: Pioneer DVD-114 10X DVD	

Test Conditions:

- All memory banks loaded.
- Both IDE channels are used.
- Temperature Setting:

Install System on office 25°C and Climb from 25°C to 35°C and climb from 35°C to 25°C.

d. Diagnostic Program: ZD WinStone 99 burn in test.

NO.	Test Engineer	Test Result	Remark
1.	Peter Churg	PASS	

6.2 Power Cycling test (Power On/Off Test): (12 hours)

System Configuration			
CPU	: Pentium III 600	VGA/Audio	: Onboard Intel 810E AGP
Cache Memory	: 256 K	Mouse	: Microsoft PS/2 mouse
On Board Memory	: SEC SDRAM 128MB	Power Supply	: Delta DPS-200PB-103A 200W
FDD	: Mitsumi D353F3 1.44MB		

Test Conditions:

Temperature range: 25°C

Power On/Off ten times in each condition

NO.	Test Engineer	Test Result	Remark
1.	Peter Churg	PASS	Cool boot total: 600 times

6.3 Field (Stress) Test: Dynamic Burn-in Tests

Software Name	Duration	Result
Winstone 99 Under WIN98 SE	24hr.	<i>Pass</i>
Test Configurations for Win 98	Intel Pentium III 700MHz Quantum Fireball KA Ultra DMA66 13.6GB HDD Buffalo 128MB SDRAM Memory.(SEC) Intel 810E (GMCH) integrated AGP VGA	
BAPCO for Windows NT 4.0	24hr.	<i>Pass</i>
Test Configurations for SYSmark 32 under Windows NT 4.0	Intel Pentium III 600MHz IBM DTTA-371010 Ultra DMA33 10.2GB IDE HDD SIEMENS 128MB SDRAM Memory. Intel 810E (GMCH) integrated AGP VGA	

7 Base Operating Systems HCT Tests For PC99

Operating System	Company	HCT Name	Result
Windows 2000	Microsoft	Microsoft WHQL HCT 9.5	<i>Pass</i>
Test Configurations	Intel Pentium III 600MHz 128MB SDRAM Memory. Onboard Intel 810E AGP VGA		

8. Hardware Compatibility Test Suite

8.1 Memory

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A
☐ Win NT Ver: 4.0 + SP6

CPU Intel Celeron 533MHz (Bus clock 66MHz) ☐ Intel
Intel Pentium III 850MHz (Bus clock 100MHz)
Intel Pentium III 800MHz (Bus clock 133MHz)

HDD Quantum ST317242A 17.2GB IDE ☐ PIO4 ☐ UDMA/33 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA Intel 810E (GMCH) AGP VGA

☐ PCI_Slot: ☐ Onboard AGP

CD-ROM Sony CDU4811 48X CD-ROM

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Sound Intel 810E + AD1881 AC'97

☐ PCI_Slot: ☐ Onchip AC97

Mouse Microsoft IntelliMouse PS/2 Mouse

☐ COM ☐ PS/2

The following SDRAM module test Winstone 99 / BAPCO under Windows 98/NT with BIOS set up default value and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

8.1.1 SDRAM DIMM Module (PC66)

Vender	IC Part No.	ECC	Size	Side	Module No.
Fujitsu	81117622A-100FN	No	16MB	S	
	81117822E-100FN	No	32MB	D	
	81164842A-100FN	Yes	128MB	D	
HYUNDIA	HY57V168010A-10	No	16MB	S	HYM7V64200 TFG-10
	HY57V168010A-10	No	16MB	S	MEMDIMO12AAWW
	HY57V168010A-10	Yes	32MB	D	HYM7V72A400 TFG-10
	HY57V658020TC-10	Yes	64MB	S	HYM7V72A801
	HY57V658020TC-10	No	128MB	D	U8
Micron	MT48LC2M8A-10	No	16MB	S	MTBLSDT264AG
	MT48LC2M8A1-10	No	16MB	S	MT8LSDT264AG-662C1
	MT48LC2M8A1-10	No	32MB	S	MT16LSDT464AG-66CL2
	MT48LC2M8A1-10	Yes	32MB	D	MT16LSDT472A6-662C1
Mitsubishi	M5M4V16S30CTP-12	No	16MB	S	MH2S64CZTJ-15
	M5M4V16S30CTP-12	No	32MB	D	MH4S64CZTJ-16
	M5M4V16S30DTP	Yes	32MB	D	M04B032M2EE72208-C3100
SEC	KM48S2020AT-G12	No	16MB	S	MDS163S-28
	KM48S2020AT-G12	No	16MB	S	KMM366S203AT-G2
	KM48S2020BT-G10	No	16MB	S	KMM366S203BTN-G0
	KM48S2020BT-G10	Yes	32MB	D	KMM374S403BTN-G0

	KM416S4030AT-G10	No	64MB	D	KMM366S824AT-G0
	KM48S8030AT-G10	No	64MB	S	KMM366S823AT-G0
SIEMENS	HYB39S16800T-10	No	16MB	S	NYS64V2000GU-10
Toshiba	TC59S1608AFT-12A	No	16MB	S	THMY640231AEG-12A
	TC59S1608AFT-12A	No	16MB	S	
	TC59S1608AFT-12A	No	32MB	D	THMY644041AEG-12A

8.1.2 SDRAM DIMM Module (PC100)

Vender	IC Part No.	ECC	Size	Side	Module No.
NEC	D4564841G5-A80-9JF	Yes	128MB	D	BUFFALO VSJ-ED128M2
SIEMENS	HYB39S64800BT-8	Yes	128MB	D	HYS72V16220GU-8
	HYB39S64800CT-8	No	64MB	S	HYS64V8300GU-8-C
	HYB39S64800CT-8	Yes	128MB	D	HYS72V16220GU-8-C
SEC	KM48S2020CT-GH	Yes	32MB	D	BUFFALO VSJ-D32M
	KM48S8030BT-GH	Yes	64MB	S	BUFFALO VSJ-ES64M2
	KM48S8030BT-GH	No	128MB	D	BUFFALO VSJ-D128M2
Apacer	GM72V66841ET7K	No	128MB	D	71.73323.065 (Hyundai)
Winbond	W981216AH-75	No	64MB	S	BUFFALO VSJ-S64M2
Hyundia	HY57V658020B-10P	No	128MB	D	BUFFALO VSJ-D128M2
KingMAX	KSV884T4A1A-08A	No	64MB	S	MPC643S-882
	KSV884T4A1A-08A	No	128MB	D	MPCA83S-882
KingSton	PTT3S128081T-8	No	128MB	D	DT100128M8-T01151

8.1.3 SDRAM DIMM Module (PC133)

Vender	IC Part No.	ECC	Size	Side	Module No.
SIEMENS	HYB39S64800BT-7.5	No	64MB	S	HYS64V8300GU-7.5
	HYB39S64800BT-7.5	No	128MB	D	HYS64V16220GU-7.5
MICRON	MT48LC8M8A2-75B	No	64MB	S	MT8LSDT864AG-133B4
	MT48LC8M8A2-75B	Yes	64MB	S	MT9LSDT872AG-133B4
	MT48LC8M8A2-75B	No	128MB	D	MT16LSDT1664AG-133B4
KingMax	KSV884T4A1A-07	No	64MB	S	MPG643S-883
	KSV884T4A1A-07	No	128MB	D	MPGA83S-883
Hyundai	HY57V658020B TC-75	No	64MB	S	HYM7V63801BTFG-75
	HY57V658020B TC-75	Yes	128MB	D	HYM7V73A1601BTFG-75
Hitachi	5264805FTT75	No	64MB	S	VS133-64M
	5264805FTT75	No	128MB	D	VS133-128M
Apacer	HYB39S64800BT-7.5	No	64MB	S	71.63350.114 (Infineon)
	HYB39S64800BT-7.5	No	128MB	D	71.73350.114 (Infineon)
	AM2V648C2T75	No	64MB	S	71.63350.034 (Apacer)

8.2 Add-on Cards

8.2.1 PCI Display Adapter Products

Test Configuration:

OS Ver ☐ Win 98 **SE Ver:** 4.10.2222A .
CPU Intel Pentium III 700MHz ☐ Intel
Memory SIEMENS 128MB (HYB39S64800CT-8) **Total:** 256 MB ☐ PC66 ☐ PC100
HDD Maxtor 91360U4 13.6GB IDE ☐ PIO4 ☐ UDMA/33 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
CD-ROM Sony DDU220E 5X DVD-ROM **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
Sound Intel 810 AC'97 ☐ PCI_Slot: ____ ☐ Onchip AC97
Mouse Logitech MouseMan Mouse ☐ COM ☐ PS/2

The following PCI VGA cards test WinBench 99 under Windows 98 SE 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.

Vendor	VGA Chip	Product Description
ATI	ATI Mach64	ATI Mach64 VT
Cardex	S3 Virge/DX	S3 Virge
ELSA	S3 Virge/VX	Winner 3000L 3D
	S3 Virge	Victory 3D-4
ASUS	Riva TNT2	PCI-V3800
Matrox	MGA-1064SG	Mystique 4MB SGRAM
3dfx	Voodoo3 -2000	Voodoo3 -2000

8.2.2 SCSI Adapter Products

Test Configuration:

OS Ver ☐ Win 98 **SE Ver:** 4.10.2222A .
☐ Win 2000 **Ver:** 4.0
CPU Intel Pentium III 800MHz ☐ Intel
Memory Winbond 128MB (W981208AH-75) **Total:** 256 MB ☐ PC100 ☐ PC133
VGA Intel 810E (GMCH) AGP VGA ☐ PCI_Slot: ____ ☐ Onboard AGP
HDD Quantum Viking II 4.5GB SCSI HDD ☐ Ultra2 SCSI ☐ Ultra Wide

Seagate ST-32272W 2.2GB SCSI HDD ☐ Ultra SCSI ☒ Ultra Wide
CD-ROM Plextor PX-32Tsi 32X SCSI ☐ Ultra SCSI ☐ Ultra Wide
Sound Intel 810 AC'97 ☐ PCI_Slot:____ ☒ Onchip AC97
Mouse Logitech MouseMan Mouse ☐ COM ☒ PS/2

The following PCI SCSI cards test WinStone 99 under Windows 98/2000 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-2940	Adaptec AHA-2940 PCI SCSI	PCI
	AHA-2940UW	Adaptec AHA-2940UW PCI SCSI card	PCI
	AHA-2940U2W	Adaptec AHA-2940U2W PCI SCSI card	PCI
	ASC-29160	Adaptec ASC-29160 PCI SCSI card	PCI
BusLogic	BT-930	Buslogic BT-930 SCSI	PCI
	KT-958	Buslogic KT-958 Narrow SCSI	PCI
Initio	INI-9100HA/W	Initio INI-9100HA/W PCI SCSI	PCI
Tekram	DC-390U2W	Tekram DC-390U2W PCI SCSI	PCI

8.2.3 FAX / Modem Products

Test Configuration:

OS Ver ☐ Win 98 Ver: 4.10.2222A ☐ Intel
CPU Intel Pentium III 667MHz ☐ Intel
Memory Micron 128MB (MT48LC8M8A2-75B) **Total: 128 MB** ☐ PC100 ☒ PC133
VGA Intel 810E (GMCH) AGP VGA ☐ PCI_Slot:____ ☒ Onboard AGP
HDD Maxtor 92040U6 20.4GB IDE ☐ PIO4 ☐ UDMA/33 ☒ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
CD-ROM TEAC CD-540E 40X IDE **Channel:** ☐ PM ☐ PS ☒ SM ☐ SS
Sound Intel 810 AC'97 ☐ PCI_Slot:____ ☒ Onchip AC97
Mouse Logitech MouseMan Mouse ☐ COM ☒ PS/2

The following External/AMR/PCI slot modem test includes connecting to the internet and download files under Windows 98 with their respective modem drivers installed .

Vendor	Product Description	Bus I/F
ADI	CommuPack 56K SVD	External
USR	Sportster 56K Faxmodem	External
GVC	56K/K56 FLEX ASVD	External
Archtek	Smartlink (56K)	AMR slot



TAICOM	MP56A-FCC 56K BPS FCC Fax/Modem	AMR slot
AboCom	MR560M (56K) - Motorola	AMR slot
	MR560S (56K)	AMR slot
GVC	F-1156IV/R2 KB3497	Internal/PCI
CIS	PSL 56K data/Fax/RTAP	Internal/PCI

8.2.4 ATA/100 PCI IDE Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A
☐ Win 2000 Ver: 5.00.2195

CPU Intel Pentium III 866MHz ☐ Intel

Memory Buffalo 128MB (GM72V66841ET7K) Total: 256 MB ☐ PC100 ☐ PC133

VGA ASUS AGP-V7700 32MB DDRAM ☐ PCI_Slot: ____ ☐ AGP

HDD IBM DTLA-307060 61.4GB IDE ☐ PIO4 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS

CD-ROM SONY CDU4811 48X IDE Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Sound Intel 810 AC'97 ☐ PCI_Slot: ____ ☐ Onchip AC97

Mouse Microsoft IntelliMouse PS/2 Mouse ☐ COM ☐ PS/2

The following ATA/100 PCI card test Core test 92/Winstone 99/Winbench 99 under Windows 98 SE/2000 with their respective card drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font..

Vendor	Product Description	Bus I/F
PROMISE	Ultra ATA/100 Controller Card for PCI	Internal/PCI

8.3 Storage

8.3.1 SCSI Peripheral Products

Test Configuration:

OS Ver ☐ Win 98 Ver: 4.10.2222A
☐ Win NT Ver: 4.0

CPU Intel Pentium III 650MHz ☐ Intel



Memory KingMAX 128MB (KSV884T4A1A-08A) **Total: 128 MB** ☐PC66 ☐ PC100
VGA Intel 810E (GMCH) AGP VGA ☐PCI_Slot:____. ☐ Onboard AGP
SCSI AHA -2940U2W Ultra Wide ☐ PCI_Solt: 2.
Mouse Logitech First Mouse+ Mouse ☐COM ☐ PS/2

The following SCSI devices test HCT Stress and WinStone 99 under Windows 98/NT 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
SCSI Hard Disk	Quantum	Fireball SE	Ultra SCSI HDD 8.4GB
		Viking II	Ultra2 Wide SCSI HDD 4.5GB
		Atlas II	Ultra SCSI HDD 4.5GB
		Atlas III	Ultra Wide SCSI HDD 9.1GB
	Seagate	ST-34555N	Ultra SCSI HDD 4.5GB
		ST-32272W	Ultra Wide SCSI HDD 2.2GB
		ST-34573LW	Barracuda 9LP Ultra2 4.5GB
		ST-39173W	Barracuda 9LP Ultra Wide 9.1GB
		ST-34502LW	Cheetah 9LP Ultra2 Wide 4.5GB
	IBM	DCAS34330	4.5GB Ultra SCSI HDD
		DCAS34330	4.5GB Ultra Wide SCSI HDD
	WD	WDE2170	4.3GB Ultra Wide SCSI HDD
CD-ROM	Plextor	PX-32Tsi	Ultra SCSI CD-ROM 32X
	NEC	CDR-1910	Ultra SCSI CD-ROM 32X
	SONY	CDU-625	SCSI-II CD-ROM 24X
	TEAC	CD-523S	Ultra SCSI CD-ROM 32X
	Toshiba	XM-6210B	Ultra SCSI CD-ROM 32X

8.3.2 IDE Fixed Disk Drive Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A .
☐ Win NT Ver: 4.0 + SP6
CPU Intel Pentium III 750MHz ☐ Intel
Memory SEC 128MB (KM48S8030BT-GH) **Total: 256 MB** ☐PC66 ☐ PC100

CD-ROM ASUS CD-S500/A 50X IDE
VGA Intel 810E (GMCH) AGP VGA
Sound Intel 810 AC'97
Mouse Logitech First Mouse+ Mouse

Channel: ☐PM ☐PS ☐ SM ☐SS
☐PCI_Slot:____. ☐ Onboard AGP
☐PCI_Slot:____. ☐ Onchip AC97
☐COM ☐ PS/2

The following IDE devices test WinStone 99/Winbench 99/3D WinBench 2000 under Windows 98 with Intel IDE Bus Master drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

8.3.2.1 IDE ATA/33 HDD:

Vendor	Model Name	Mode	Capacity
Maxtor	Diamond 88400D8	Ultra ATA 33	8.4GB
	Diamond 86480D6	Ultra ATA 33	6.4GB
	Diamond 84320D4	Ultra ATA 33	4.3GB
	Diamond 91000D8	Ultra ATA 33	10.0GB
Fujitsu	MPA3052AT	Ultra ATA 33	5.2GB
	MPA3043AT	Ultra ATA 33	4.3GB
	MPB3064AT	Ultra ATA 33	6.4GB
	MPB3032AT	Ultra ATA 33	3.2GB
	MPC3064AT	Ultra ATA 33	6.4GB
	MPC3102AT	Ultra ATA 33	10.2GB
Quantum	Fireball SE	Ultra ATA 33	4.3GB
	Fireball EL	Ultra ATA 33	5.1GB
	Fireball EX	Ultra ATA 33	6.4GB
	Fireball EX	Ultra ATA 33	12.7GB
	Bigboot TX	Ultra ATA 33	4.0GB
	Bigboot TX	Ultra ATA 33	12.0GB
Seagate	Medialist pro ST-34342A	Ultra ATA 33	4.3GB
	Medialist pro ST-39140A	Ultra ATA 33	9.1GB
	Medialist pro ST-36530A	Ultra ATA 33	6.5GB
WD	Caviar AC36400	Ultra ATA 33	6.4GB
	Caviar AC38400	Ultra ATA 33	8.4GB
IBM	DTTA-371010	Ultra ATA 33	10.1GB

8.3.2.2 IDE ATA/66 HDD:

Vendor	Model Name	Mode	Capacity
WD	AC28400	Ultra ATA 66	8.4GB
	AC310200	Ultra ATA 66	10.2GB
	AC313000	Ultra ATA 66	13GB
Seagate	ST-313032A	Ultra ATA 66	13GB
	ST-317242A	Ultra ATA 66	17.2GB
Fujitsu	MPE3064AT	Ultra ATA 66	6.4GB
	MPE3102AT	Ultra ATA 66	10.2GB
	MPE3102AH	Ultra ATA 66	10.2GB
	MPE3204AT	Ultra ATA 66	20.4GB
	MPE3204AH	Ultra ATA 66	20.4GB
Quantum	Fireball CR	Ultra ATA 66	4.3GB

	Fireball CR	Ultra ATA 66	8.4GB
	Fireball CX	Ultra ATA 66	10.2GB
	Fireball CX	Ultra ATA 66	13GB
	Fireball KA	Ultra ATA 66	9.1GB
	Fireball KA	Ultra ATA 66	13.6GB
	Fireball LA	Ultra ATA 66	8.4GB
	Fireball Plus LM	Ultra ATA 66	20.5GB
IBM	DJNA-370910	Ultra ATA 66	9.1GB
	DJNA-352030	Ultra ATA 66	20.3GB
	DPTA-372730	Ultra ATA 66	27.3GB
	DPTA-353750	Ultra ATA 66	37.5GB
Maxtor	90845U3	Ultra ATA 66	8.4GB
	90871U2	Ultra ATA 66	8.7GB
	91021U2	Ultra ATA 66	10.2GB
	91360U4	Ultra ATA 66	13.6GB
	91531U3	Ultra ATA 66	15.3GB
	92040U6	Ultra ATA 66	20GB
	92049U4	Ultra ATA 66	20GB
	92720U8	Ultra ATA 66	27GB
Samsung	SV1364D	Ultra ATA 66	13.6GB
	SV2046D	Ultra ATA 66	20.4GB

8.3.2.3 IDE ATA/100 (Test under Promise ATA/100 PCI card)

Vendor	Model Name	Mode	Capacity
IBM	DTLA-307015	Ultra ATA 100	15.3GB
	DTLA-305020	Ultra ATA 100	20.5GB
	DTLA-307020	Ultra ATA 100	20.5GB
	DTLA-307030	Ultra ATA 100	30.7GB
	DTLA-307045	Ultra ATA 100	46.1GB
	DTLA-307060	Ultra ATA 100	61.4GB
	DTLA-307075	Ultra ATA 100	76.8GB

8.3.3 Floppy Disk Drive Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A
☐ Win NT Ver: 4.0 + SP6

CPU Intel Celeron 533MHz

☐ Intel

Memory SIEMENS 64MB(HYB39S64800CT-8) Total: 128 MB ☐ PC66 ☐ PC100

VGA Intel 810E (GMCH) AGP VGA

☐ PCI_Slot: ☐ Onboard AGP

HDD Quantum Fireball CX 13GB IDE

☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

CD-ROM Pioneer DR-744 36X IDE

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Sound Intel 810 AC'97

☐ PCI_Slot:___ ☐ Onchip AC97

Mouse Logitech MouseMan Mouse

☐ COM ☐ PS/2

The following Floppy devices were tested by format disk, boot and read/write file under under Windows 98/NT with Intel IDE Bus Master drivers installed .

Vendor	Model Name	Product Description
Panasonic	JU-257A606P	1.44MB Floppy Disk Drive
TEAC	FD-235HF	1.44 MB Floppy Disk Drive
SONY	MPF920-E	1.44 MB Floppy Disk Drive
ALPS	DF354N901C	1.44 MB Floppy Disk Drive

8.3.4 ATAPI CD-ROM /DVD-ROM Device Product

Test Configuration:

OS Ver ☐ Win 98 Ver: 4.10.2222A .

CPU Intel Pentium III 733MHz

☐ Intel

Memory SIEMENS 128MB (HYB39S64800BT)

Total:256 MB ☐ PC66 ☐ PC133

HDD Maxtor 92720U8 27.2GB IDE

☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA Intel 810E (GMCH) AGP VGA

☐ PCI_Slot:___ ☐ Onboard AGP

Sound Intel 810 AC'97

☐ PCI_Slot:___ ☐ Onchip AC97

Mouse Logitech First Mouse+ Mouse

☐ COM ☐ PS/2

The following IDE devices test ZD CDWinbench 99 and play VCD over night under Windows 95/98 with Intel IDE Bus Master drivers installed and set to the follow condition 1024 x 768 x 16bit colors, resolution refresh rate of 85Hz, small font.

8.3.4.1 ATAPI CD-ROM:

Vendor	Model Name	Product Description
Panasonic	CR-587-D	ATAPI CD-ROM 32X Mode4
Acer	650P	ATAPI CD-ROM 50X UDMA2
LITE-ON	LTN-301	ATAPI CD-ROM 32X UDMA2
	LTN-403L	ATAPI CD-ROM 40X UDMA2
Creative	CD4834E	ATAPI CD-ROM 48X UDMA2
Philips	PCA323CD	ATAPI CD-ROM 32X UDMA2
A-Open	CD-940E/AKU	ATAPI CD-ROM 40X UDMA2
ASUS	CD-S400/A	ATAPI CD-ROM 40X UDMA2
	CD-S500/A	ATAPI CD-ROM 50X UDMA2
TEAC	CD-532EA	ATAPI CD-ROM 32X Mode3
	CD-540E	ATAPI CD-ROM 40X Mode4
SONY	CDU-711	ATAPI CD-ROM 32X UDMA2
	CDU-4811	ATAPI CD-ROM 48X UDMA2
Pioneer	DR-744	ATAPI CD-ROM 36X Mode4
BTC	BCD 48SB	ATAPI CD-ROM 48X UDMA2

8.3.4.2 ATAPI DVD-ROM:

Vendor	Model Name	Product Description
Panasonic	SR-8583-BXX	ATAPI DVD-ROM 5.0X
Toshiba	SD-M1202	ATAPI DVD-ROM 4.8X
SONY	DDU-220E	ATAPI DVD-ROM 5.0X
Hitachi	GD-2500	ATAPI DVD-ROM 6X
Pioneer	DVD-A03S	ATAPI DVD-ROM 6X
	DVD-114	ATAPI DVD-ROM 10X

8.3.5 ATAPI Disk Drive (IDE Interface)

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A

☐ Win NT Ver: 4.0 + SP6

CPU Intel Pentium III 600MHz

Memory Hitachi 128MB (5264805FTT75)

VGA Intel 810E (GMCH) AGP VGA

HDD Seagate ST-313032A 13GB IDE

CD-ROM ASUS CD-S400/A 40X IDE

Sound Intel 810 AC'97

Mouse Logitech First Mouse+ Mouse

☐ Intel

Total: 256 MB ☐ PC66 ☐ PC133

☐ PCI_Slot: ☐ Onboard AGP

☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

☐ PCI_Slot: ☐ Onchip AC97

☐ COM ☐ PS/2

The following ATAPI devices were tested by format disk, boot and read/write file (large file) under Windows 98/Win NT with Intel IDE Bus Master drivers installed .

Vendor	Product Description
Mitsubishi	MF357G-111MA LSA-120
Panasonic	LKM-F434-105 LS-120
Zip	Z100 Zip IDE DRIVE 29ms 100MB

8.4 Peripherals

8.4.1 Parallel/Serial Port Products (Including IR)

Test Configuration:

OS Ver ☐ Win 98 Ver: 4.10.2222A



CPU Intel Pentium III 700MHz ☐ Intel
Memory SIEMENS 64MB (HYB39S64800BT-8) **Total: 128 MB** ☐ PC66 ☐ PC100
HDD IBM DPTA-372730 27.3GB IDE ☐ PIO4 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
CD-ROM BTC BCD 48SB 48X IDE **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
VGA Intel 810E (GMCH) AGP VGA ☐ PCI_Slot: ____ ☐ Onboard AGP
Sound Intel 810 AC'97 ☐ PCI_Slot: ____ ☐ Onchip AC97
Mouse Logitech TrackMan Marble Mouse ☐ COM ☐ PS/2

The following Parallel/Serial devices be tested under Windows 95/98 with Intel IDE Bus Master drivers installed.

Vendor	Model Name	Product Description	Bus I/F
HP	LaserJet 6P	HP LaserJet 6P support IR Interface	LPT/IR
Mustek	1200CP	Mustek 1200CP Scanner	LPT
Parallel	Universal Cable	DirectParallel universal cable	LPT
Actisys	ACT-IR210L	InfraRed Computer Link	IR
IRwave	IRwave320F	InfraRed Computer Link	IR
Kodak	DC210	InfraRed/Serial port Digital camera	COM/IR

8.4.2 Mouse Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A ☐ Intel
CPU Intel Pentium 733MHz **Total: 128 MB** ☐ PC100 ☐ PC133
Memory Hitachi 64MB (5264805FTT75) ☐ PIO4 ☐ UDMA/66
HDD WD AC313000 13GB IDE **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
CD-ROM Panasonic SR-8583B 5X DVD-ROM **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
VGA Intel 810E (GMCH) AGP VGA ☐ PCI_Slot: ____ ☐ Onboard AGP
Sound Intel 810 AC'97 ☐ PCI_Slot: ____ ☐ Onchip AC97

The following Mouse devices test Office 2000 and Game under Windows 98/98 SE with Mouse drivers installed.

Vendor	Model Name	Product Description	Bus I/F
Microsoft	IntelliMouse	Microsoft IntelliMouse Serial - PS/2 Mouse	Serial/ PS2



	IntelliMouse	IntelliMouse USB/PS2 Mouse (w IntelliEye)	USB/PS2
Logitech	MouseMan	Logitech MouseMan Serial - PS/2 Mouse	Serial/ PS2
	First Mouse+	Logitech First Mouse+ Serial - PS/2 Mouse	Serial/ PS2
	TrackMan Marble	Logitech TrackMan Marble Serial - PS/2 Mouse	Serial/ PS2
Genius	NetMouse	Genius NetMouse PS/2 Mouse	PS2

8.4.3 USB Device Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A

CPU Intel Pentium III 733MHz ☐ Intel

Memory Hyundai 128MB (HY57V658020B TC-75) Total: 256 MB ☐ PC100 ☐ PC133

HDD Maxtor 91360U4 13.6GB IDE ☐ PIO4 ☐ UDMA/33 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

CD-ROM ASUS CD-S400/A 40X IDE

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA Intel 810E (GMCH) AGP VGA

☐ PCI_Slot:____ ☐ Onboard AGP

Sound Intel 810 AC'97

☐ PCI_Slot:____ ☐ Onchip AC97

Mouse Microsoft IntelliMouse Mouse

☐ COM ☐ PS/2

The following USB devices be tested under Windows 98 SE with Win 98 default driver installed.

Type	Vendor	Description
Mouse	Logitech	M-UA34
		M-UB48
		USB Wheel Mouse
		USB MouseMan Wheel
	Microsoft	IntelliMouse USB/PS2 Mouse (w IntelliEye)
	Macally	USB Mini Mouse
	Justy	UM-400
	Cypress	7-895 Mouse
HUB	Belkin	Express Bus F5U001
Camera	Kodak	DVC323
	AXIS	PCAM-QU
Keyboard	BTC	8113W
	Jetime	ACK-298H
	Microsoft	Natural Keyboard elite
	Chicony	KU-8933
Printer	EPSON	Stylus Color 740
Ethernet	CATC	USB to Lan 10BASE-T
Scanner	HP	ScanJet 4200C
Speaker	Philips	MAGNAVOX DSS350
GamePad	Creative	Cobra USB GamePad

	Logitech	WingMan Extreme USB GamePad
Joystick	Genius	Flight2000 F-22X
	Thrustmaster	TOP Gun

8.4.4 Joystick and GamePad

Test Configuration:

OS Ver ☐ Win 98 Ver: 4.10.2222A

CPU Intel Pentium III 600MHz ☐ Intel

Memory SIEMENS 32MB (HYB39S64160AT-8) Total: 64 MB ☐ PC66 ☐ PC100

HDD Maxtor 92049D6 20GB IDE ☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

CD-ROM Acer 650P 50X IDE

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA Intel 810E (GMCH) AGP VGA

☐ PCI_Slot: ☐ Onboard AGP

Sound Intel 810 AC'97

☐ PCI_Slot: ☐ Onchip AC97

Mouse Microsoft IntelliMouse Mouse

☐ COM ☐ PS/2

The following Joystick devices test Game under Windows 98 with themselves default driver installed.

Type	Vendor	Product Description
GamePad	Logitech	ThunderPad Digital
Joystick	Microsoft	SideWinder 3D Pro joystick
	Logitech	Wing Man Extreme digital joystick
		WingMan Force joystick
		CyberMan2 Digital Game Controller

8.5 Power Supply Products

The following Power Supply devices test power On/Off 10 times in the Chamber .

Vendor	Product Description	Power	Type
DELTA	DPS-200PB-89G	200W	ATX
	DPS-200PB-103A	200W	ATX
	DPS-200PB-103D	200W	ATX
	DPS-200PB-103F	200W	ATX
	DPS-88AB	90W	SFX
HIPRO	HP-250NLXAK Rev:01	250W	NLX
	HP-200 NLXAG	200W	NLX
	HP-200NLXAA	250W	NLX
	HP-250NLXAA	250W	NLX
	HP-300SN Rev:02	300W	ATX
	HP-A1463F5 Rev:03	145W	SFX

Seventeam	ST-250GL	250W	ATX
	ST-301HR	300W	ATX
	ST-150MK	150W	SFX
	ST-200PIII	200W	SFX
Enlight	ATX-723B	230W	ATX
	ATX-725B	250W	ATX
	ATX-730	300W	ATX
	SFX-1215A	150W	SFX
	SI-X145M2 REV:A0-01	145W	SFX
	SI-X145M3 REV:B0	145W	SFX
Liteon	PS-5141-4	145W	SFX
Enhance	SFX-1215B	150W	SFX

8.6 MPEG-2 DVD Display Products

Test Configuration:

OS Ver ☐ Win 98 SE Ver: 4.10.2222A .

CPU Intel Pentium III 700MHz ☐ Intel

Memory SIEMENS 128MB (HYB39S64800CT-8) Total: 256 MB ☐ PC66 ☐ PC100

HDD Maxtor 91360U4 13.6GB IDE ☐ PIO4 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

VGA Intel 810E (GMCH) AGP VGA ☐ PCI_Slot: ☐ Onboard AGP

Sound Intel 810 AC'97 ☐ PCI_Slot: ☐ Onchip AC97

Mouse Microsoft IntelliMouse Mouse ☐ COM ☐ PS/2

The following DVD player over night under Windows 98 with their respective DVD 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
Realmagic	Sigma Designs EM8300	DVDmagic Pro DVD card
Formosa	Sigma Designs EM8300	DVD8300 DVD card

9. Software Compatibility Test Suite

9.1 Base Operating System

9.1.1 Microsoft MS-DOS/Win 3.1:

Test Configuration:

CPU Intel Celeron 533MHz

Memory Hyundai 32MB (HY57V168010A-10)

HDD Quantum Fireball CR 8.4GB IDE

VGA Intel 810E (GMCH) AGP VGA

Sound Intel 810 AC'97

CD-ROM TEAC CD-540E 40X IDE

Mouse Logitech TrackMan Marble Mouse

☐ Intel

Total: 64 MB ☐ PC66 ☐ PC100

☐ PIO4 ☐ UDMA/33 ☐ UDMA/66

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

☐ PCI_Slot:____. ☐ Onboard AGP

☐ PCI_Slot:____. ☐ Onchip AC97

Channel: ☐ PM ☐ PS ☐ SM ☐ SS

☐ COM ☐ PS/2

Test Item	Result	Remark
FDISK (FAT16)	PASS	
Install DOS	PASS	
Format FDD	PASS	
Format HDD	PASS	
Boot from FDD	PASS	
Boot from HDD	PASS	
HIMEM	PASS	
EMM386	PASS	
XCOPY	PASS	
Diskcopy	PASS	
Power.exe	PASS	
USB Keyboard working (Only)	PASS	
Install Windows 3.1	PASS	
Qaplan 5.6 for DOS	PASS	
Check It 5.01 for DOS	PASS	
Norton Utility 8.0 for DOS/Win 3.1 (Sysinfo)	PASS	
AMIDdiag 6.0	PASS	
Speedcom	PASS	
Speedy for Win 3.1	PASS	
NSTL Y2K tools test	PASS	
PM function (H/W & BIOS)	PASS	
LS-120/ZIP install & working	PASS	

GAME play (name: Mech Warrior 2 Mercenaries)	PASS	
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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 DOS	6.22	English	Microsoft	Pass
Windows for Workgroups	3.11	English	Microsoft	Pass

9.1.2 Microsoft Windows 95/98/98 SE:

Test Configuration:

CPU Intel Pentium III 700MHz ☐ Intel
Memory NEC 128MB (D4564841G5-A80-9JF) **Total: 128 MB** ☐ PC66 ☐ PC100
HDD IBM DPTA-353750 37.5GB IDE ☐ PIO4 ☐ UDMA/33 ☐ UDMA/66
VGA Intel 810E (GMCH) AGP VGA ☐ PCI_Slot:____ ☐ Onboard AGP
Sound Intel 810 AC'97 ☐ PCI_Slot:____ ☐ Onchip AC97
CD-ROM Panasonic SR-8583B DVD 5X **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
LAN Realtek RTL8139B ☐ PCI_Slot:____ ☐ Onchip LAN
Mouse Microsoft IntelliMouse Mouse ☐ COM ☐ PS/2

Test Item	Result	Remark
FDISK (FAT32)	PASS	
Install OS	PASS	
Format FDD	PASS	
Diskcopy	PASS	
Large file Copy	PASS	
Trend Anti-Virus Install & Test	PASS	
Device Management check (No Caution)	PASS	
Sound/VGA/LAN IRQ change (PnP function)	PASS	
VGA Resolution/Color change	PASS	
Install Office 2000	PASS	
Auto Shutdown (system power off)	PASS	
Defrag test	PASS	
LS-120/ZIP install & working	PASS	
Norton Utility 3.0	PASS	
CheckIt 98	PASS	
Qaplus 7.1 for Win 98	PASS	
Year 2000 test	PASS	
DVD Video CD play (name: Deep Blue Sea)	PASS	
Video CD play (name: Mercury Rising)	PASS	
Drive Converter (FAT32)	PASS	

PM function by WIN98 (H/W)	PASS	
GAME play (name: <u>Age Of Empires II</u>)	PASS	
WinStone 99	PASS	
WinBench 99	PASS	
3D Winbench 2000	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 95 OSR2.5	950C	English	Microsoft	Pass
	950C	German	Microsoft	Pass
	950C	French	Microsoft	Pass
	950C	Chinese	Microsoft	Pass
MS Windows 98	4.10.1998	English	Microsoft	Pass
MS Windows 98 Second Edition	4.10.2222A	English	Microsoft	Pass
MS Windows 98 SE OPK	4.10.2222A	German	Microsoft	Pass
	4.10.2222A	Japanese	Microsoft	Pass
	4.10.2222A	Chinese(trad)	Microsoft	Pass
	4.10.2222A	Chinese(simp)	Microsoft	Pass

9.1.3 Microsoft Windows NT 4.0+Service Pack 6:

Test Configuration:

CPU Intel Pentium III 667MHz ☐ Intel
Memory Winbond 128MB (W981208AH-75) **Total: 256 MB** ☐ PC66 ☐ PC133
HDD Quantum Fireball KA 13GB IDE ☐ PIO4 ☐ UDMA/33 ☐ UDMA/66
VGA Intel 810E (GMCH) AGP VGA **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
Sound Intel 810 AC'97 ☐ PCI_Slot:____. ☐ Onboard AGP
CD-ROM Creative CD5220E 52X IDE ☐ PCI_Slot:____. ☐ Onchip AC97
Mouse Logitech Mouse+ Mouse **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
☐ COM ☐ PS/2

Test Item	Result	Remark
Install Win NT (NTFS/FAT)	PASS	
Format FDD	PASS	
Diskcopy	PASS	
IDE Bus Master install	PASS	
VGA Resolution/Color change	PASS	
Shutdown	PASS	
Shutdown & Restart	PASS	
LS-120/ZIP install & working	PASS	

Year 2000 test	PASS	
WinStone 99	PASS	
WinBench 99	PASS	
BAPCO for Win NT 4.0 (SYSmark32)	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
Windows NT Workstation	4.0	English	Microsoft	Pass
Windows NT Workstation Service Pack	5.0	English	Microsoft	Pass
	6.0	English	Microsoft	Pass

9.1.4 Microsoft Windows 2000:

Test Configuration:

CPU Intel Pentium III 733MHz ☐ Intel
Memory SIEMENS 128MB (HYB39S64800BT-7.5) Total: 128 MB ☐ PC66 ☐ PC133
HDD Quantum Fireball LA 8.4GB IDE ☐ PIO4 ☐ UDMA/33 ☐ UDMA/66
VGA Intel 810E (GMCH) AGP VGA ☐ PCI_Slot: ____ ☐ Onboard AGP
Sound Intel 810 AC'97 ☐ PCI_Slot: ____ ☐ Onchip AC97
CD-ROM Pioneer DR-744 36X IDE Channel: ☐ PM ☐ PS ☐ SM ☐ SS
Mouse Microsoft IntelliMouse Mouse ☐ COM ☐ PS/2

Test Item	Result	Remark
Install Win 2000 with NTFS (boot from CD)	PASS	
Format FDD	PASS	
Cool boot 2 times under every combination	PASS	
Reboot 2 times under every combination	PASS	
VGA Resolution/Color change (800x600x32bit / 1024x768x16bit)	PASS	
Auto Shutdown (system power off)	PASS	
Defrag test	PASS	
Year 2000 test	PASS	
DVD Video CD play (name: <u>Deep Blue Sea</u>)	PASS	
Hibernate (Suspend To Disk)	PASS	
PM function by Win2000 (H/W & Time out & Stand by)	PASS	
Sound/VGA/LAN IRQ change (PnP function)	PASS	
Install Office 2000	PASS	
WinStone 99	PASS	
WinBench 99	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

9.1.5 IBM OS/2 4.0:

Test Configuration:

CPU Intel Pentium III 500MHz ☐ Intel
Memory NEC 128MB (D4564841G5-A80) **Total: 128 MB** ☐ PC66 ☐ PC100
HDD Fujitsu MPB3032AT 3.2GB IDE ☐ PIO4 ☐ UDMA/33
VGA Intel 810E (GMCH) AGP VGA **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
CD-ROM ASUS CD-S500/A 50X IDE ☐ PCI_Slot: ____ ☐ Onboard 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	
Stress test	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

9.1.6 LINUX:

Test Configuration:

CPU Intel Pentium III 500MHz ☐ Intel
Memory SIEMENS 64MB (HYB39S64800BT-7.5) **Total: 128 MB** ☐ PC66 ☐ PC133
HDD Maxtor 93073U6 30GB IDE ☐ PIO4 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
VGA Intel 810E (GMCH) AGP VGA ☐ PCI_Slot: ____ ☐ Onboard AGP
CD-ROM Pioneer DVD-A03S 6X DVD-ROM **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
Mouse Logitech Mouse+ Mouse ☐ COM ☐ PS/2

Test Item	Result	Remark
Install OS	PASS	
Format FDD	PASS	
Video CD play (name: Mercury Rising)	PASS	
Start Office 5.2	PASS	
Word Perfect 8.0	PASS	
Nbench	PASS	System Performance
Hwinfo	PASS	
ab	PASS	Netware Test
UnixBench	PASS	Burn In Test

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

Operating System	Version	Language	Status
Red Hat	6.1	English	Pass
Open Linux	2.3	English	Pass

9.1.7 Microsoft Windows ME:

Test Configuration:

CPU Intel Pentium III 800MHz ☐ Intel
Memory KingStone 128MB (HYB39S64800BT-7.5) **Total: 256 MB** ☐ PC100 ☐ PC133
HDD Quantum Fireball LA 4.3GB IDE ☐ PIO4 ☐ UDMA/33 ☐ UDMA/66
Channel: ☐ PM ☐ PS ☐ SM ☐ SS
VGA Intel 810E (GMCH) AGP VGA ☐ PCI_Slot: ____ ☐ Onboard AGP
Sound Intel 810 AC'97 ☐ PCI_Slot: ____ ☐ Onchip AC97
CD-ROM Pioneer DVD-A03S 6X DVD **Channel:** ☐ PM ☐ PS ☐ SM ☐ SS
Mouse Microsoft IntelliMouse Mouse ☐ COM ☐ PS/2

Test Item	Result	Remark
FDISK (FAT32)	PASS	
Install OS	PASS	
Format FDD	PASS	
Device Management check (No Caution)	PASS	
VGA Resolution/Color change	PASS	
Large file Copy (one file Over 500MB)	PASS	
Install Office 2000	PASS	

Media Player 7.0 (play MIDI/MP3/CD Audio)	PASS	
LS-120/ZIP install & working	PASS	
VCD/DVD play (name: Mercury Rising)	PASS	
Power Management	PASS	
Hibernate (Suspend To Disk)	PASS	
System Restore	PASS	
WinStone 99 (Business WS99)	PASS	
WinBench 99 (BD/BG/CPU/FPU/HD/HG)	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

9.2 Software Applications

Item	Descriptions	Version	O.S.	Language	Status
Suites	MS Office 97 for Windows	7.0	Windows 95	English	Pass
	MS Office 2000		Windows 95/98	Chinese	Pass
		9.0.2720	Windows 95/98	English	Pass
Communication	BITWare	3.30.10	Windows 95/98	English	Pass
	WinFAX Pro for Win 95	4.0	Windows 95/98	English	Pass
	LapLink	7.0A	Windows 95	English	Pass
	Norton Anywhere	1.0	Windows	English	Pass
Database	FoxPro Microsoft	6.0	Windows	English	Pass
Graphics	Corel Draw	9.0	Windows 95	English	Pass
	MS PowerPoint	4.0	Windows	English	Pass
	Photo Shop Pro	3.05	Windows 95	English	Pass
Presentation Program	MS PowerPoint	7.0	Windows 95	English	Pass
	MS Visual Basic	4.0	Windows 95	English	Pass
	MS Visual C++	6.0	Windows 95/98	English	Pass
	Borland Delphi	4.0	Windows 95	English	Pass
Diagnostic Utility	Bapco 4.0 for Win NT	4.0	Windows NT	English	Pass
	ZD 3D Winbench 99	1.2	Windows 95/98	English	Pass
	ZD Winstone 99	1.2	Windows 95/98	English	Pass
	QAPLus	5.52	DOS	English	Pass
	AMIDdiag	6.0	DOS	English	Pass
	Landmark(Speedcom)	2.0	DOS	English	Pass
	Check IT Pro	5.01	Windows 95/98	English	Pass
	CheckIt 98		Windows 95/98	English	Pass
Tools	Norton Utility 2000		Windows 98	English	Pass
	Norton Ghost 2000	6.0	DOS,Win 9X	English	Pass
	PartitionMagic 4.0	4.0	DOS,Win 9X	English	Pass
Scan	PC-cillin 98 Plus	4.1	Windows 95/98	English	Pass



Internet	Norton Antivirus	5.0	Windows 95/98	English	Pass
	Netscape	4.6	Windows 95	English	Pass
	Internet Explore	4.0	Windows 95/98	English	Pass
		5.0	Windows 95/98	English	Pass
CD Title Game	3D Vltra Pin Ball	1.0	Windows 95	English	Pass
	Duke Nukem 3D	1.0	DOS	English	Pass
	Mech Warrior2	1.0	Windows 95	English	Pass
	AH-64D longbow	1.0	DOS	English	Pass
	NFL Football Trivia Challenge	1.0	DOS	English	Pass
	Wing Commander III	4.0	DOS	English	Pass
	Poker Cowboy Casino MPEG Version	1.0	Window 95	English	Pass
	MDK (Exclusive North American Version)	1.0	Window 95	English	Pass
	Master of Orion II Battle at Antares	1.0	Window 95	English	Pass
	The Lion King	1.0	Window 95	English	Pass
	DIABLO BLIZZARD (CD)		Win95 / NT4.0	English	Pass
	WARCRAFT II TIDES OF DARKNESS		DOS/WIN95	English	Pass
	DOOM II	1.0	Window 95	English	Pass
	War Wind		Window 95	English	Pass
	Magic 2 Carpet		Window 95	English	Pass
	YAMARAJA		Window 95	English	Pass
	TOMB RAIDER II		Window 95	English	Pass
	Lands of Lore II		Window 95	English	Pass
	The Magic School Bus			English	Pass
	Flight Simulator 98		Window 95	English	Pass
	Dagger fall		Window 95	English	Pass
	Quake II		Window 95	English	Pass
	Test Drive 4		Window 95	English	Pass
	AGE of EMPIRES		Window 95	English	Pass
	Mech Warrior 2 Mercenaries			English	Pass
	Blood & Magic		DOS/WIN95	English	Pass
	Wing Commander III		DOS/WIN95	English	Pass
	Wing Commander IV		Window 95	English	Pass
	Descent II			English	Pass
	TOMB Raider III		Window 95/98	English	Pass
	AGE of EMPIRES(Expansion)		Window 95/98	English	Pass
	Moto Racer 2		Window 95/98	English	Pass
	Need for Speed III		Window 95/98	English	Pass
	Klinton Honor Gurd		Window 95/98	English	Pass
	F-15		Window 95/98	English	Pass
	SIM City 3000		Window 95/98	English	Pass
	Baldur's Gate		Window 95/98	English	Pass
	STAR WARS ROGUE SQUADRON 3D		Window 95/98	English	Pass

	X-WING COLLECTOR SERIES		Window 95/98	English	Pass
	TUROC SEED OF EV 2		Window 95/98	English	Pass
	Lands of Lore III		Window 95/98	English	Pass
	Popvlov		Window 95/98	English	Pass
	Need For Speed -High Stakes		Window 95/98	English	Pass
	Civilization		Window 95/98	English	Pass
	DESCENT III		Window 95/98	English	Pass
	Starcraft		Window 95/98	English	Pass
	Starcraft – Expansion Set(Brood War)		Window 95/98	English	Pass
	TIBERIAN SUN		Window 95/98	English	Pass
	Flight Unlimited III		Window 95/98	English	Pass
	Black Moon Chronicles		Window 95/98	English	Pass
	Unreal – Return to NA Pali		Window 95/98	English	Pass
	Discworld NOIR		Window 95/98	English	Pass
	Return to Krondor		Window 95/98	English	Pass
	DRAKAN – Order of the Flame		Window 95/98	English	Pass
	Outcast		Window 95/98	English	Pass
	Age of Empires II		Window 95/98	English	Pass
	Might and Magic VII – For Blood and Honor		Window 95/98	English	Pass
	TOMB RAIDER 4		Window 95/98	English	Pass
	QUAKE III – ARENA		Window 98	English	Pass
	Final Fantasy VIII		Window 98	English	Pass
	DELTA FORCE II		Window 98	English	Pass
	FIFA 2000		Window 98	English	Pass
	TRIGGER		Window 98	English	Pass
	Need For Speed V – Porsche 2000		Window 98	English	Pass