

FIC PA-2011 PCI SYSTEM BOARD BOARD LEVEL COMPATIBILITY TEST REPORT

Document Number: *MB-344*
Product Version: *V 2.3*
BIOS Version: *626CC12*
Chipset: *VIA82C590VP2 (3042F + 3036H)*

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Update: 2-Jun-1997



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1. Introduction

FIC's motherboards undergo a comprehensive suite of stringent software and hardware compatibility tests to ensure that they can not only run a complete range of operating systems and software packages, but that they can also be installed with a full selection of add-on cards and peripheral devices, such as VGA, SCSI, and network adapters as well as HDDs, FDDs, CD-ROM Drives and Fax/Modems. A board is deemed to have passed the compatibility testing suite when it has met the following criteria:

- All application software available for IBM compatible products works properly.
- All common internal and external hardware available to the IBM AT-Bus and PCI compatible systems functions properly.
- All hardware and software can be installed according to the instructions provided to the user.
- All legal configurations (IRQ , I/O addresses, DMA levels) function properly.
- All applications have been tested with and without drivers provided on the support disk.
- All operating systems have been installed and tested with each processor, with and without the most critical mode selected by setup.



2. Mainboard Features

Model Name : PA-2011 PCB Rev 2.3
Product Name : Pentium-Processor Based Mainboard
System BIOS : AMI BIOS 626CC12
PCI IDE : Internal PCI Master dual IDE
I/O : SMC FDC37C669QF

3. Mainboard CPU Supports:

Intel Processors	Status
Pentium 90MHz	Pass
Pentium 100MHz	Pass
Pentium 120MHz	Pass
Pentium 133MHz	Pass
Pentium 150MHz	Pass
Pentium 166MHz	Pass
Pentium 200MHz	Pass
Pentium with MMX 150MHz	Pass
Pentium with MMX 166MHz	Pass
Pentium with MMX 200MHz	Pass
Pentium with MMX 233MHz	Pass
Pentium CTB-150MHz	Pass
Pentium CTB-166MHz	Pass

Cyrix/IBM/ 6x86 Processors	Status
6x86-P133+ at 110MHz	Pass
6x86-P150+ at 120MHz	Pass
6x86-P166+ at 133MHz (v3.7)	Pass
6x86-P200+ at 75MHz (v3.7)	Pass
6x86L-P166+	Pass
6x86L-P200+ at 150MHz (v4.2)	Pass
AMD-K5 Processors	Status
AMD-K5-PR90	Pass
AMD-K5 PR100	Pass
AMD-K5 PR120	Pass
AMD-K5 PR133	Pass
AMD-K5 PR150	Pass
AMD-K5 PR166	Pass
AMD-K5 PR133 ABR	Pass
AMD-K5 PR200 ABX	Pass
AMD-K6 Processors	Status
AMD-K6/PR2-166	Pass
AMD-K6/PR2-200	Pass
AMD-K6/PR2-233	Pass

4. System Specification for Hardware and Software Utilities

The mainboard hardware portion was configured as follows :

Item	Description
IO Corelogic	SMC669QF Support Normal, EPP,ECP mode and IR interface
PCI Bus Clock	Synchronous mode (depended on CPU Clock divide by 2)
PCI IDE	VIA VT82C586A internal Bus Master PCI IDE.
System Core Logic	VIA Apollo VP2 (590VP2)
System Cache	256K / 512K Pipeline Burst SRAM
System Memory	Maximum : 512MB (DIMM) , 256MB (SIMM)
	72 pins single RAS and Double RAS RAM Module
	Fast Page / EDO
	168 pins single RAS and Double RAS RAM Module
	DIMM module support SDRAM
System Slots	4 PCI and 4 ISA slots

5. Jumper Function Verification

Description	Jumper Name	Default Option	Status
BIOS Boot Block Select	EP1 / EP2	1-2 / 1-2	Pass
Burst Mode Select	SRAM	1-2	Pass
Clear Password Switch	CPW	Open	Pass
CPU Clock Rate	FREQ1 / FREQ2 / FREQ3	1-2 / 1-2 / 1-2	Pass
CPU Clock Selector	CLK1/CLK2/CLK3	2-3 / 1-2 / 2-3	Pass
CPU FAN Connector	FAN	Open	Pass
CPU Voltage Sector	VR	3-4	Pass
IDE LED Connector	IDE_LED	Open	Pass
Keyboard Lock and Power LED	KB_LOCK	Open	Pass
Reset Switch	RST	Open	Pass
Remote Power Control Connector	PRW_CON	Open	Pass
Remote Power Switch	RPW_SW	Open	Pass
Speaker Connector	SPK	Open	Pass
Suspended Switch	SUP_SW	Open	Pass
Turbo LED Connector	TB_LED	Open	Pass



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

Software Name	Duration	Result
BAPCO 95 for Windows NT	24 hr.	Pass
Test Configurations for NT	Intel Pentium MMX 166MHz VGA S3 ViRGE 3D On board 64MB Memory Adaptec AHA 2940UW Seagate Wide SCSI ST-32550W	
Novell Server version 4.11	48 hr.	Pass
Test Configurations for Novell	Intel Pentium 166MHz Adaptec AHA 3940 Quantum SCSI MA540S 3COM 3C595 10/100 PCI Netware card (Connect to 4-6 workstation) On board 64MB Memory VGA S3 TRIO64V+ 1MB Test Program : Novell Nwtest	
SCO UNIX Open Desktop 5.0	24 hr.	Pass
Test Configurations for SCO	Intel Pentium 166MHz SONY CDU-55S SCSI CD-ROM Quantum Fireball 2.1GB TM2110S SCSI Disk On board 64MB Memory VGA S3 TRIO 64 V+ 2MB Test Program : Create a batch file	
IBM OS/2 Warps 3.0	24 hr.	Pass
Test Configurations for OS/2	Intel Pentium 166MHz Seagate ST31276A 1.2GB VGA S3 ViRGE 3D On board 64MB Memory Test program : Create Batch file	
Winstone 97 Under WIN95	48hr.	Pass
Test Configurations for Winstone 97	Intel Pentium 166MHz Seagate ST31276A 1.2GB On board 32MB Memory. VGA S3 TRIO64V+ 2MB Test condition : Run continuous demo mode (Must skip dbase)	
SYSmak 32 for Windows 95	24hr.	Pass
Test Configurations for SYSmak 32 under Windows 95	Cyrix/IBM CPU 6x86 P166+ Seagate ST31276A 1.2GB On board 32MB Memory. VGA S3 TRIO64 V+ 2MB Test condition : Run continuous demo mode (Must skip dbase)	



7. Base Operating Systems Certification Tests

Operating System	Company	HCT / SCT Name	Result
IBM OS/2 Version 3.0	IBM	OS/2 SCT 3.0	Pass
Test Configurations	Intel Pentium 200MHz On board 16MB Memory. VGA S3 TRIO64V+ 2MB		
Windows NT Version 4.00	Microsoft	Window NT HCT 4.00	Pass
Test Configurations	Intel Pentium 200MHz On board 16MB Memory. VGA S3 TRIO64V+ 2MB		
Windows 95	Microsoft	Window 95 SCT 5.40	Pass
Test Configurations	Intel Pentium 200MHz On board 16MB Memory. VGA S3 ViRGE 2MB		



8. Hardware Compatibility Test Suite

8.1 Memory

8.1.1 Pipeline Burst SRAM

Type	Vendor	Parts No	Description	Result
Cache	TM	T35L3232B-6Q	32Kx32	Pass
	TM	T35L6432A-6	64Kx32	Pass
	Winbond	W25P010AF-7	32Kx32	Pass
	Winbond	W25P022AF-6	64Kx32	Pass
	Etron Tech	EM531325-6	32Kx32	Pass
	Galvantech	GVT132C32Q-6	32Kx32	Pass
	SIS	SIS8132-6	32kx32	Pass
	UT	UT6164C32Q-6	64kx32	Pass
	UMC	UM61L3264F-6	64kx32	Pass

**8.1.2 SIMM Module (FPM, EDO)**

Type	Vendor	Parts No	Description	Result
EDO	SEC	KM416C1204AJ-60NS	8 MB 72pin RAM module 60ns	Pass
		KM44C4104AK-60NS	16MB 72pin RAM module 60ns	Pass
	Hyunday	Hy5118164B-60	8 MB 72pin RAM module 60ns	Pass
	MICRON	MT4C4007JDJ-60	4 MB 72pin RAM module 60ns	Pass
	TOSHIBA	M5117405A-60	16MB 72pin RAM module 60ns	Pass
	SIEMENS	HYB5118165BSJ-60	4 MB 72pin RAM module 60ns	Pass
	MITSUMI	M5M418165BJ-60	8 MB 72pin RAM module 60ns	Pass
		M5M418165BJ-60	16MB 72pin RAM module 60ns	Pass
	NEC	4218165-60	8 MB 72pin RAM module 60ns	Pass
		4217405-60	16MB 72pin RAM module 60ns	Pass
	TI	TMS418169DZ-60	8 MB 72pin RAM module 60ns	Pass
	OKI	M5118165A-60J	8 MB 72pin RAM module 60ns	Pass
		M5117405A-60	16MB 72pin RAM module 60ns	Pass
	Fast Page	Hyundai	HY514400A	4 MB 72pin RAM module 70ns
Hy514400A			8 MB 72pin RAM module 70ns	Pass
Hy5117400JC-70			16MB 72pin RAM module 70ns	Pass
Hitachi		HM514400CLS7	4 MB 72pin RAM module 70ns	Pass
		HM514400CLS7	8 MB 72pin RAM module 70ns	Pass
Mitsubishi		M5M418160BJ-7	4 MB 72pin RAM module 70ns	Pass
		M5M4100BJ-7	4 MB 72pin RAM module 70ns	Pass
		FC1121 REV 1.0	8 MB 72pin RAM module 70ns	Pass
		M5M417400AJ-7	16MB 72pin RAM module 70ns	Pass
		M5M417400BJ-7	16MB 72pin RAM module 70ns	Pass
Micron		MT-12D136G-7	4 MB 72pin RAM module 70ns	Pass
NEC		4217400-60	4 MB 72pin RAM module 60ns	Pass
		4216100-60	64MB 72pin RAM module 60ns	Pass
TI		TMS418160-70DZ	4 MB 72pin RAM module 70ns	Pass
		TMS417400DJ-6	32MB 72pin RAM module 60ns	Pass
Toshiba		TC514400ASJL-7	4 MB 72pin RAM module 70ns	Pass
		TC5117400BSJ-60	32MB 72pin RAM module 60ns	Pass
OKI		M5117405A-60	16MB 72pin RAM module 60ns	Pass

8.1.3 DIMM Module(SDRAM)

Type	Vendor	Parts No	Description	Result
SDRAM	Hitachi	HM5216165TT-10	8 MB 168pin RAM DIMM	Pass
		HM5216805TT-10	16MB 168pin RAM DIMM	Pass
		HM5216805TT-10	32MB 168pin RAM DIMM	Pass
	Hyundai	HYM7V64200TFG-10	16MB 168pin RAM DIMM	Pass
	IBM	0316169CT3B	8 MB 168pin RAM DIMM	Pass
		0316169CT3B	16MB 168pin RAM DIMM	Pass
	LGS	GMM2642233BL	16MB 168pin RAM DIMM	Pass
	Mitsumi	MH2S64CZTJ-15	16MB 168pin RAM DIMM	Pass
		MH4S64CZTJ-15	32MB 168pin RAM DIMM	Pass
	MT	MTBLSDT264AG-66	16MB 168pin RAM DIMM	Pass
	SEC	KM416S1120AT-10	16MB 168pin RAM DIMM	Pass
		KM416S1120AT-12	8MB 168pin RAM DIMM	Pass
		KM48S2020AT-G12	32MB 168pin RAM DIMM	Pass
		KMM366S203AT-G2	16MB 168pin RAM DIMM	Pass
	Toshiba	THMY641031A-12	8MB 168pin RAM DIMM	Pass
		THMY641031A-12	16MB 168pin RAM DIMM	Pass
		THMY641051A-12	8MB 168pin RAM DIMM	Pass
		THMY641051A-12	16MB 168pin RAM DIMM	Pass
		THMY642051AEG-12	16MB 168pin RAM DIMM	Pass
		THMY644041AEG-12	32MB 168pin RAM DIMM	Pass
	TI	TMX626162DGE	8MB 168pin RAM DIMM	Pass
		TMX626162DGE	16MB 168pin RAM DIMM	Pass
		TX2SR64EPU-12A	16MB 168pin RAM DIMM	Pass
		TX4SR64EPU-12A	32MB 168pin RAM DIMM	Pass
	NEC	D4516161G5-7JF	8 MB 168pin RAM DIMM	Pass
		D4516821G5-7JF	16MB 168pin RAM DIMM	Pass
		D4516821G5-7JF	32MB 168pin RAM DIMM	Pass
		MC-452AB644F-A12	16MB 168pin RAM DIMM	Pass



8.2 Add-on Cards

8.2.1 Display Adapter Products

Vendor	Model Name	Product Description	Bus I/F	Result
Alliance	ProMotion AT24	Alliance Pro Motion AT24	PCI	Pass
ATI	Mach 64	Graphic Pro-Turbo 4MB	PCI	Pass
	Mach 64 DRAM	Mach 64 DRAM	PCI	Pass
	Mach 64 VT	Video Xpression 2MB PCI (3D)	PCI	Pass
	3D RAGE	3D RAGE	PCI	Pass
	3D RAGE II	3D RAGE II (PC2TV 4MB)	PCI	Pass
Canopus	Power Window T64V	S3 86C765 2M DRAM (Japan)	PCI	Pass
Diamond	Stealth 64 VRAM	Stealth 64 2/4 MB VRAM (S3 968)	PCI	Pass
	Stealth 64	Stealth 64 PCI VGA Card (S3 964)	PCI	Pass
	Viper (PRO)	Viper SE Weitek P9100	PCI	Pass
	Edge 3D 2120XL	EDGE 3D 2120XL 2MB DRAM	PCI	Pass
	Edge 3D 3240XL	EDGE 3D 3240XL 2MB VRAM	PCI	Pass
ELSA	WINNER 2000AVI/3D	ELSA WIN. 2000 AVI/3D VIRGE VX EDOV-RAM PCI 4MB	PCI	Pass
ELSA	VICTORY 3D	ELSA VICTORY 3D-4 S3-VIRGE EDO-DRAM 135MHZ PCI 4MB	PCI	Pass
	WINNER 3000	ELSA WINNER 3000-L 3D VIRGE VX 4MB VRAM+2MBEDO PCI 4MB	PCI	Pass
FIC	1stGrafX-64P	S3 764 1/2 MB DRAM	PCI	Pass
	1st GrafX-65MP	S3 765 1/2 MB DRAM	PCI	Pass
	1st GrafX-65MP2	S3 775 1/2 MB EDO DRAM	PCI	Pass
	1st GrafX-46MP	Cirrus 5446 1/2 MB DRAM	PCI	Pass
	1st GrafX-67MP	S3 ViRGE 325 2M/4M EDO RAM	PCI	Pass
Hercules	T2212	Graphite Terminator 64/Video PCI 2MB	PCI	Pass
	GT1202	Graphite Terminator 64/DRAM PCI 2MB	PCI	Pass
	GT3220	Graphite Terminator PCI	PCI	Pass
	S3_Vision 968	S3_Vision968 PCI	PCI	Pass
I/O DATA	GA-968V2/PCI	S3 86C968P 2M VGA (Japan)	PCI	Pass
Leadtek	Win Fast S280	Leadtek S3 765 1/2 MB DRAM	PCI	Pass
	Win Fast S600	Leadtek S3 ViRGE 325 EDO DRAM	PCI	Pass
Matrox	MAG-PCI/2	Matrox PCI 2MB VRAM	PCI	Pass
	Millennium 3D	Matrox 4MB VRAM	PCI	Pass
	Mystique	Matrox 2MB SGRAM	PCI	Pass
		Matrox 4MB SGRAM	PCI	Pass
Number 9	Number 9	#9 GXE 64Pro	PCI	Pass
	9FX Motion 331	#9 Motion 331 2MB DRAM	PCI	Pass
	IMAGINE 128	Turbo DLD #9 IMAGINE128 4MB VRAM	PCI	Pass
STB	Power 64	S3 86C764-P 2M DRAM	PCI	Pass
Trident	9680	Trident 9680 2M DRAM	PCI	Pass



Vendor	Model Name	Product Description	Bus I/F	Result
Tseng	ET6000 Tseng	Tseng ET6000 PCI VGA	PCI	Pass

8.2.2 SCSI Adapter Products

Vendor	Model Name	Product Description	Bus I/F	Result
Adaptec	AHA-1530P	Adaptec AHA-1530P ISA PnP SCSI	ISA PnP	Pass
	AHA-1542CS/CP	Adaptec AHA-1542C ISA PnP SCSI	ISA PnP	Pass
	AHA-2940AU	Adaptec AHA-2940AU PCI SCSI card	PCI	Pass
	AHA-2940UW	Adaptec AHA-2940UW PCI SCSI card	PCI	Pass
	AHA-3940	Adaptec AHA-3940 PCI to PCI Bridge card	PCI	Pass
	AHA-3985	Adaptec AHA-3985 PCI SCSI card	PCI	Pass
	AHA-1520/22B	Adaptec AHA-1520/22 ISA PnP SCSI	ISA PnP	Pass
	AHA-2920	Adaptec AHA-2920 PCI SCSI	PCI	Pass
	AHA-2940W	Adaptec AHA-2940W PCI SCSI	PCI	Pass
	AHA-1540CF	Adaptec AHA-1540CF ISA SCSI	ISA	Pass
BusLogic	BT-946	Buslogic BT-946 SCSI	PCI	Pass
	FlashPoint LT	Buslogic BA81C15 PCI SCSI	PCI	Pass
	BT-948CD	Buslogic BT-948CD PCI FWD SCSI	PCI	Pass
	BT-956CD	Buslogic BT-956CD PCI FWD SCSI	PCI	Pass
	KT-958	Buslogic KT-958 Narrow SCSI	PCI	Pass
Feature Domain	PnP 1630	Feature Domain 9441 PnP ISA SCSI	ISA PnP	Pass
	TMC-3260	Feature Domain 36C70 PCI SCSI	PCI	Pass
Initio	INI-9100HA/W	Initio INI-9100HA/W PCI SCSI	PCI	Pass
NCR	SCSI-810P	NCR-810P PCI SCSI Card	PCI	Pass
	825S	NCR-825S PCI SCSI Card	PCI	Pass
Symbios	SYM875-1SP	Symbios Logic 53C875J	PCI	Pass



8.2.3 Network Card Products

Vendor	Model Name	Product Description	Bus I/F	Result
3COM	Combo 3C509B	3COM Ethernet PnP ISA Network card	ISA PnP	Pass
	3C-590	3COM Etherlink III PCI	PCI	Pass
	3C-5950TX	3COM Etherlink III 10/100 PCI	PCI	Pass
	3C-905	3COM Etherlink III 10/100 PCI	PCI	Pass
	3C-339	3COM TokenLink Velocity PCI	PCI	Pass
Accton	ACC40	Accton ACC40 Ethernet card	ISA	Pass
	EN-166X	PnP ISA Ethernet card	ISA PnP	Pass
	PCI-40	Digital DC1003C PCI Network	PCI	Pass
	EN1207-TX	Accton 100Mbps Ethernet Card	PCI	Pass
C-NET	CN970EBT	AMD AM97C970-A4 PCI Ethernet	PCI	Pass
	CN100TX	Digital DC1010BA 10/100 Mbps Ethernet Card	PCI	Pass
D-Link	EZ-2000CT	EZ2000+ Series Ethernet Card	ISA	Pass
	DE-530CT	Digital PCI Ethernet Card	PCI	Pass
	EZ-220 CT	PnP ISA Ethernet card	ISA PnP	Pass
Everex	EV-2064	SpeedLink ISA PnP Ethernet Card	ISA PnP	Pass
Genius	GE2500	Genius LAN Card PCI-Ethernet Card	PCI	Pass
IBM	IBM 92G7632	IBM 23H3004 Auto 16/4 Token-Ring	ISA PnP	Pass
	IBM04H8095	IBM 73G2692 Auto LAN Streamer PCI	PCI	Pass
	IBM P13H9237	IBM PCI Ethernet Adapter	PCI	Pass
	IBM P25H4374	IBM 100/10 PCI Ethernet Adapter	PCI	Pass
	IBM 41H8900	IBM PCI Token-Ring Adapter	PCI	Pass
Intel	Ether Express Pro/100	Intel Ether Express Pro/100 LAN Adapter	PCI	Pass
	Express 16	Intel Express 16 ISA Ethernet card	ISA	Pass
	Ether Express Pro/10+	Intel Ether Express Pro/10+ PCI LAN Adapter	PCI	Pass
Novell	NE2000 Plus	Novell NE2000 Plus	ISA	Pass
	NE2100	Novell NE2100	ISA	Pass
Olicom	OC-3136	Olicom PCI Token-Ring card	PCI	Pass
	OC-3118	Olicom ISA PnP Token-Ring card	ISA PnP	Pass
	OC-2325	Olicom Fast Ethernet PCI/II 10/100 Adapter	PCI	Pass
	OC-2183	Olicom Ethernet PCI/II 10 Adapters	PCI	Pass
	OC-2185	Olicom Ethernet PCI/II 10 Adapters	PCI	Pass
SMC	SMC 8432BT	SMC Ether Power PCI Combo	PCI	Pass
	SMC9332DST	SMC Ether Power 10/100 PCI	PCI	Pass
	EtherEZ	SMC Ethernet Card	ISA PnP	Pass
Thomas Corned	TC-4045	Thomas Corned Token-Ring	ISA	Pass
	TC-4145	Thomas Corned PnP ISA Token-Ring	ISA PnP	Pass
	TC-4048	Thomas Conrad Token-Ring PCI Adapter	PCI	Pass
ZNXY	ZX-312	Digital DC-1003 PCI Ethernet	PCI	Pass



8.2.4 FAX / Modem Products

Vendor	Model Name	Product Description	Bus I/F	Result
CIS	WS-2814IVB	28.8 Internal PnP modem	Internal-PnP	Pass
Creative	WS-2814EM2	Creative Modem Blaster 28.8 External	External	Pass
	Phone Blaster	Creative Phone Blaster	Internal	Pass
Diamond	Telecomander	Diamond Telecomander 3500XL	Internal	Pass
HAYES	ACCUR	HAYES ACCURA 288V.FC + FAX	Internal	Pass
Megahertz	PCMCIA	Internal 2.88 Modem	Internal	Pass
Sierra	288SQ	28.8 Internal PnP modem	Internal-PnP	Pass
SINOCA	FMVS-288	FAX/MODEM/VOICE 28800bps PnP	Internal-PnP	Pass
US Robotics	Sportster Vi	28.8 Fax modem with DSVD	Internal	Pass
	Sportster Voice	28.8 Fax modem with Voice mail	Internal	Pass

8.3 Storage

8.3.1 SCSI Peripheral Products

ITEM	Vendor	Model Name	Product Description	Result
CD-ROM	SONY	CDU-76E	SCSI CD-ROM Drive 4X	Pass
	NEC	CDR-510	SCSI CD-ROM Drive 4X	Pass
DAT	Wangtek		SCSI DAT 2.0G	Pass
Hard Disk	Conner	CFA-540S	540MB SCSI Hard Disk Drive	Pass
	Quantum	LPS-540S	540MB SCSI Hard Disk Drive	Pass
		FB-1080S	1GB SCSI Hard Disk Drive	Pass
		MA-540S	540MB SCSI Hard Disk Drive	Pass
		MA-730S	740MB SCSI Hard Disk Drive	Pass
		LPS-525S	525MB SCSI Hard Disk Drive	Pass
		TM2110S	2.1GB SCSI Hard Disk Drive	Pass
	Fujitsu	M1606SAU	1.2GB SCSI Hard Disk Drive	Pass
	Seagate	ST-32550W	2GB SCSI Hard Disk Drive	Pass
		ST-15230N	4.29GB SCSI-II Hard Disk Drive	Pass
Iomega	Ditto	IO80Fi	Ditto Driver 800 Tape Insider	Pass
		IO80-PX3	Ditto Easy 800 External Tape Driver	Pass
	Zip	Z100i	Zip 100 SCSI Insider	Pass
		Z100S	Zip 100 SCSI	Pass
	Jaz	V1000SI	Jaz 1GB SCSI	Pass
TAPE	Wangtek	5525ES	525MB SCSI Tape Drive	Pass

**8.3.2 IDE Fixed Disk Drive Products**

Vendor	Model Name	Product Description	Bus I/F	Result
Fujitsu	M2684TA	540MB PIO mode 3 / DMA mode 0	IDE	Pass
	M3684TA	850MB PIO mode 3 / DMA mode 1	IDE	Pass
IBM	DPEA-31080	1GB PIO mode 3 / DMA Mode 0	IDE	Pass
	DJAA-21080	1.7 GB PIO Mode 4 / DMA Mode 1	IDE	Pass
	DJAA-31700	1.7 GB PIO Mode 4 / DMA Mode 1	IDE	Pass
	DHEA-36480	6.4 GB PIO Mode 4 / Ultra DMA/33	IDE	Pass
Maxtor	71084A	1.08GB PIO mode 4 / DMA mode 2	IDE	Pass
	72004AP	2.0GB PIO mode 4 / DMA mode 2	IDE	Pass
NEC	DSE1340A	1.3GB PIO mode 4 / DMA mode 2	IDE	Pass
	DSE1700A	1.6GB PIO mode 4 / DMA mode 2	IDE	Pass
	DSE2010A	2.0GB PIO mode 4 / DMA mode 2	IDE	Pass
	DSE2550A	2.5GB PIO mode 4 / DMA mode 2	IDE	Pass
Quantum	BF-1280AT	5.25" 1.2GB PIO mode 4 / DMA mode 2	IDE	Pass
	BF-2550AT	5.25" 2.5GB PIO mode 4 / DMA mode 2	IDE	Pass
	FB-3200AT	3.5 3.2GB PIO mode 4 / DMA mode 2	IDE	Pass
	FB-3840AT	3.5 3.8GB PIO mode 4 / DMA mode 2	IDE	Pass
	SR-2550AT	3.5 2.5GB PIO mode 4 / DMA mode 2	IDE	Pass
	TM2110BT	3.5 2.1GB PIO mode 4 / DMA mode 2	IDE	Pass
	TM3200AT	3.5 3.2GB PIO mode 4 / DMA mode 2	IDE	Pass
	TM1280AT	3.5 1.28GB PIO mode 4 / DMA mode 2	IDE	Pass
	CY-2.1AT	5.25 2.1GB PIO mode 4 / DMA mode 2	IDE	Pass
Seagate	ST-32140A	2.1GB PIO mode 4 / DMA mode 2	IDE	Pass
	ST-31276A	1.2GB PIO mode 4 / DMA mode 2	IDE	Pass
	ST-52520A	2.5GB PIO mode 4 / DMA mode2	IDE	Pass
	ST-31082A	1GB PIO mode 4 / DMA mode 2	IDE	Pass
	ST-32132A	2.1GB PIO mode 4 / DMA mode 2	IDE	Pass
	ST-31720A	1.7GB PIO mode 4 / DMA mode 2	IDE	Pass
	ST-33240A	3.2GB PIO mode 4 / DMA mode 2	IDE	Pass

**8.3.3 Floppy Disk Drive Products**

Vendor	Model Name	Product Description	Bus I/F	Result
EPSON	SMD-1340-301	1.2MB Floppy Disk Drive	FDC	Pass
	SMD-1304-301	1.44 MB Floppy Disk Drive	FDC	Pass
Mitsumi	D509V3	1.2MB Floppy Disk Drive	FDC	Pass
	D359T3	1.44MB Floppy Disk Drive	FDC	Pass
	D353T5	1.44MB Floppy 3 Mode Disk Drive	FDC	Pass
	D353T6	1.44MB Floppy 3 Mode Disk Drive	FDC	Pass
Panasonic	JU-475-3AG1	1.2MB Floppy Disk Drive	FDC	Pass
	JU-257	1.44 MB Floppy Disk Drive	FDC	Pass
	JU-259	2.88 Floppy Disk Drive	FDC	Pass
Samsung	SFD-321B/JB	1.44 MB Floppy Disk Drive	FDC	Pass
Sony	MPF-520-1	1.44MB Floppy Disk Drive	FDC	Pass
TEAC	FD-55GF	1.2 MB Floppy Disk Drive	FDC	Pass
	FD-235HG	1.44 MB Floppy Disk Drive	FDC	Pass
	FD-235J	2.88 Floppy Disk Drive	FDC	Pass
	FD-235HF	3 Mode MB Floppy Disk Drive	FDC	Pass
YEDATA	YD-380	1.2MB Floppy Disk Drive	FDC	Pass
	YD-702J	1.44 MB Floppy Disk Drive	FDC	Pass

8.3.4 ATAPI CD-ROM Device Products

Vendor	Model Name	Product Description	Bus I/F	Result
Acer	665A-002	ATAPI CD-ROM Device 6X	IDE	Pass
	685A-042	ATAPI CD-ROM Device 8X	IDE	Pass
GoldStar	GCD-R580B	ATAPI CD-ROM Device 8X	IDE	Pass
	CDR-7930	ATAPI CD-ROM Device 8X	IDE	Pass
	CDR-8130	ATAPI CD-ROM Device 12X	IDE	Pass
Panasonic	CDR-1400A	ATAPI CD-ROM Device 8X	IDE	Pass
	CDU311-10	ATAPI CD-ROM Device 8X	IDE	Pass
Sony	SCR-830	ATAPI CD-ROM Device 8X	IDE	Pass
TATUNG	CD-850B	ATAPI CD-ROM Device 8X	IDE	Pass
TEAC	CDR-S18	ATAPI CD-ROM Device 8X	IDE	Pass
	CDD-820	ATAPI CD-ROM Device 8X	IDE	Pass
Mitsumi	CRMC-FX810T	ATAPI CD-ROM Device 8X	IDE	Pass
	CRMC-FX820	OPTI-DRIVE 650MB IDE CD-ROM 8X	IDE	Pass
	CMRC-FX120T	ATAPI CD-ROM Device 12X	IDE	Pass
Torisan	CDR-S18	OPTI-DRIVE 650MB IDE CD-ROM 8X	IDE	Pass
Panasonic	CR-584B	OPTI-DRIVE 650MB 12X IDE CD-ROM	IDE	Pass
Goldstar	CRD8160B	OPTI-DRIVE 650MB IDE 16X CD-ROM	IDE	Pass
Wearnes	CDD-1620	OPTI-DRIVE 650MB IDE 16X CD-ROM	IDE	Pass
Torisan	CDR-S112	OPTI-DRIVE 650MB IDE 16X CD-ROM	IDE	Pass
Lite-On	LTN-262	OPTI-DRIVE 650MB IDE 16X CD-ROM	IDE	Pass
NEC	CDR-1600A	OPTI-DRIVE 650MB IDE 16X CD-ROM	IDE	Pass
	CDR-1700A	OPTI-DRIVE 650MB IDE 20X CD-ROM	IDE	Pass
Mitsumi	FX140S	OPTI-DRIVE 650MB IDE 16X CD-ROM	IDE	Pass



8.3.5 ATAPI Disk Drive (IDE Interface)

Vendor	Product Description	Bus I/F	Result
Mitsubishi	MF357G-111MA LSA-120	IDE	Pass
Panasonic	LKM-F434-105 LS-120	IDE	Pass
Zip	Z100 Zip IDE DRIVE 29ms 100MB	IDE	Pass

8.4 Peripherals

8.4.1 Printer Peripheral Products

Vendor	Model Name	Product Description	Bus I/F	Result
Actisys	ACT-IR210L	InfraRed Computer Link	LPT	Pass
D-Link	DE-EPP	D-Link EPP Pocket LAN	LPT	Pass
HP	LaserJet III	HP LaserJet III	LPT	Pass
	LaserJet 5P	HP LaserJet 5P support IR Interface	LPT	Pass
Road Runner	Express T305	External Parallel Port Tape Backup	LPT	Pass
	Express FD144	External Parallel Port Floppy Drive	LPT	Pass
	Express CD-4X	External Parallel Port CD-ROM Driver	LPT	Pass
	Express XD	External Parallel Port Hard Driver	LPT	Pass
Up-select		External EPP SCSI BOX	LPT	Pass
Zip	ZIP100	Iomega ZIP 100 Parallel port	LPT	Pass

8.4.2 Mouse Products

Vendor	Model Name	Product Description	Bus I/F	Result
Actisys	ACT-IR220-L	InfraRed Computer Link	Serial	Pass
Genius	Serial	Serial Mouse 3-Button	Serial	Pass
KYE	Niche-N201	Serial Mouse (2 button)	Serial	Pass
	Mouse one 2B	Serial Mouse (2 button) & Pad	Serial	Pass
	Mouse one 3B	Serial Mouse (3 button) & Pad	Serial	Pass
LEO	AD-M36	Serial Mouse 3-Button	Serial	Pass
Logitech	M-S34	PS/2 compatible Mouse	PS/2	Pass
	M-M34	Serial Mouse	Serial	Pass
Microsoft	Microsoft Mouse	Microsoft Serial - PS/2 Mouse	Serial/ PS2	Pass
NEC	M-S28	Serial Mouse	Serial	Pass
Qtronix	Lynx-25P	PS/2 Compatible Mouse	PS/2	Pass
	Lynx-25S	Serial Mouse	Serial	Pass



8.4.3 USB Device Products

Type	Vendor	Parts No	Description	Result
Joystick	Paramount		USB Joystick	Pass
Keyboard	Silitek		USB Keyboard	Pass
Mouse	Logitech	M-UA35	USB Mouse	Pass

8.4.4 Joystick & Game Pad

Vendor	Product Description	Result
Gravis	Game Pad Pro	Pass
Microsoft	SideWinder 3D Pro	Pass

8.5 Multimedia

8.5.1 Sound Blaster Products

Vendor	Model Name	Product Description	Bus I/F	Result
Advance	ALS-100	Advance Logic PnP Sound	ISA PnP	Pass
AMD	Inter Wave	AMD AM78C201KC PnP Sound	ISA PnP	Pass
AZTECH	Waverider 32+	Aztech Sound Galaxy Waverider 32+	ISA	Pass
	AZT2320	Aztech Waverider32 +	PnP ISA	Pass
Creative	AWE32	Creative AWE32 Sound Blaster	ISA PnP	Pass
	CT-2760	Creative ISA PnP Sound Blaster	ISA PnP	Pass
	CT-2890	Creative ISA PnP Sound Blaster	ISA PnP	Pass
	CT-2940	Creative ISA PnP Sound Blaster	ISA PnP	Pass
	CT-2950	Creative ISA PnP Sound Blaster	ISA PnP	Pass
	CT-3600	Creative ISA PnP Sound Blaster	ISA PnP	Pass
	CT-3620	Creative ISA PnP Sound Blaster	ISA PnP	Pass
	CT-3660	Creative ISA PnP Sound Blaster	ISA PnP	Pass
	CT-3990	Creative ISA PnP Sound Blaster	ISA PnP	Pass
Diamond	Multimedia Kit 6000	Diamond Viper Multimedia Kit 6000	ISA	Pass
ESS	ESS-1688	ESS ISA PnP Sound Blaster	ISA PnP	Pass
	ESS-1868	ESS ISA PnP Sound Blaster	ISA PnP	Pass
	ESS-1788	ESS ISA PnP Sound Blaster	ISA PnP	Pass
Everex	Wave Machine	Crystal CS4332 PnP Sound card	ISA PnP	Pass
Fomosa	SC-1650	Ginaaction Sound Conductor 16 PnP	ISA PnP	Pass
	SC-1670W/1670W+3D	16PNP Sound Card ISA Bus	ISA PnP	Pass
	SC-1671/1671+3D	16PNP Sound Card ISA Bus	ISA PnP	Pass
	SC200/SC200+3D	16PNP Sound Card ISA Bus	ISA PnP	Pass
Ultra	Sound Card	Ultra Sound Blaster	ISA PnP	Pass



8.5.2 MPEG Video Products

Vendor	Model Name	Product Description	Bus I/F	Result
Creative	Video Blaster SE-100	Creative SE-100 MPEG card	ISA	Pass
	Video Blaster CT-6000	Creative CT-6000 Video Capture board	ISA	Pass
FIC	1stGrafx-CP3	S3 443 1/2 DRAM	PCI	Pass
Formosa	MPEG-MP020	Formosa Full Function MPEG card	ISA	Pass
	MPEG-MP021	Formosa Full screen MPEG	ISA	Pass
	TV-Tuner	Formosa TV-Tuner board	ISA	Pass
	MPEG-MP011A	Formosa Full Function MPEG Short card	ISA	Pass
RealMagic	MPEG	Real Magic Full Function MPEG card	ISA	Pass

8.5.3 TV Tuner Display Products

Vendor	Model Name	Product Description	Bus I/F	Result
AITech	AITech vision for Multimedia	Wave Watcher TV-II	ISA	Pass
Diamond	DTV 1100	Diamond Multimedia Upgrade	ISA	Pass
Matrox	Media TV	Media TV MGA Millennium	ISA	Pass

8.6 Power Supply Products

Vendor	Model Name	Product Description	Result
Enhance	E520	200W 110/ 220 V PS II	Pass
	V520	200W 110/ 220 V PS II	Pass
	V515	150W 110/ 220 V PS II	Pass
Lead Year	ESP-2200	200W 110 / 220 V PS II	Pass
	ES-2250	250W 110 / 220 Remote Power Supply	Pass
Seventeam	ST-230WHF	230W 110 / 220 VPS II	Pass
	ST-211WHF	200W 110 / 220 VPS II	Pass
Sea Sonic	SSG-200G	200W ATX Remote Power Supply	Pass
YHI	YS-6200DJ	200W ATX Remote Power Supply	Pass

9. Software Compatibility Test Suite



9.1 Base Operating System

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's Power Management and Remote functions are also tested.

Operating System	Version	Language	Company	Status
IBM DOS	7.0	German	IBM	Pass
IBM OS/2 Warp	4.0	English	IBM	Pass
	3.0	German	IBM	Pass
MS DOS	6.22	English	Microsoft	Pass
	6.22	German	Microsoft	Pass
MS Windows 95	950b	English	Microsoft	Pass
	950b	Chinese	Microsoft	Pass
Novell Network	3.12	English	Novell	Pass
Novell Network	4.10	English	Novell	Pass
Novell Network	4.11	English	Novell	Pass
Windows for Workgroups	3.11	English	Microsoft	Pass
Windows NT Advance Server	3.51	English	Microsoft	Pass
Windows NT Server	4.0	English	Microsoft	Pass
Windows NT Server	4.0	Chinese	Microsoft	Pass
Windows NT Workstation	3.51	English	Microsoft	Pass
Windows NT Workstation	4.0	English	Microsoft	Pass

9.2 Operating System for Japanese

Operating System	Version	Language	Company	Status
IBM OS/2 Warp	3.0	Japanese	IBM	Pass
Lotus Windows 95 Super Office96		Japanese	Microsoft	Pass
Microsoft Office Designed for Windwos95	7.0	Japanese	Microsoft	Pass
MS Windows 95	4.0a	Japanese	Microsoft	Pass
Novell Network	4.11	Japanese	Novell	Pass
Windows NT Server	4.0	Japanese	Microsoft	Pass
Windows NT Workstation	4.0	Japanese	Microsoft	Pass

9.3 Software Applications

Item	Descriptions	Version	O.S.	Language	Status
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Suites	Lotus SMART Suites 96	1.0	Windows 95	English	Pass
	MS Work for Windows	3.0	Windows	English	Pass
	MS Work for Windows95	4.0	Windows 95	English	Pass
	MS Office for Windows	4.3	Windows	English	Pass
	MS Office for Windows	4.3	Windows	Chinese	Pass
	MS Office 97 for Windows95	7.0	Windows 95	English	Pass
Word Processor	PE III (DW3)	4.0	DOS	English	Pass
	AMI Pro for Windows	3.1	Windows	English	Pass
	AMI Pro for Windows	3.1	Windows	Chinese	Pass
	Word Pro for Windows96		Windows	Chinese	Pass
	MS Word for Windows	6.0	Windows	English	Pass
	MS Word for Windows	6.0	Windows	Chinese	Pass
	Word Perfect for Windows	6.0	Windows	English	Pass
	WordPerfect	6.0	Windows	English	Pass
Communication	cc: Mail/Add-on		Windows	English	Pass
	BITWare	3.30	Windows 95	English	Pass
	Delrina CommSuite	1.0	Windows 95	English	Pass
	WinFAX Pro	7.0	Windows 95	English	Pass
	WinFAX Pro for Win 95	4.0	Windows 95	English	Pass
	LapLink	7.0A	Windows 95	English	Pass
	Norton Anywhere	1.0	Windows	English	Pass
CAD	3D Disign Plus	2.0	Windows	English	Pass
	AutoCAD	R13	DOS	English	Pass
	AutoCAD	R13	Windows 95	English	Pass
	Animator Pro	1.3	DOS	English	Pass
	OrCAD	4.20	DOS	English	Pass
	3D Studio	4.0	DOS	English	Pass
	Micro Station	5.0	Windows	English	Pass
	PCAD	4.5	DOS	English	Pass
Database	Approach 96	1.0	Windows 95	English	Pass
	Lotus Notes	4.0	Windows 95	English	Pass
	Notes	3.0	Windows	Chinese	Pass
	Borland Visual Dbase	5.5	Windows 95	English	Pass
	Visual Foxpro	3.0A	Windows 95	English	Pass
	Visual dBASE Compiler	5.5	Windows 95	English	Pass
	DBASE IV	2.0	DOS	English	Pass
	FoxBase Microsoft	2.1	Windows	English	Pass
	FoxPro Microsoft	2.6	Windows	English	Pass

Item	Descriptions	Version	O.S.	Language	Status
Graphics	Corel Draw	6.0	Windows 95	English	Pass



	Corel Draw	6.0	Windows 95	Chinese	Pass
	Fractal Design Painter	4.0	Windows 95	English	Pass
	Windows Draw	3.0	Windows	English	Pass
	MS PowerPoint	4.0	Windows	English	Pass
	Designer	4.1	Windows	English	Pass
	Pagemaker	6.5	Windows 95	English	Pass
	Visio HOME	4.0	Windows 95	English	Pass
	Photo Shop Pro	3.05	Windows 95	English	Pass
	MS-Publisher	3.0	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++	4.0	Windows 95	English	Pass
	Macro Assembler	6.11	DOS	English	Pass
	Borland C++	4.0	Windows	English	Pass
	Borland C++	5.0	Windows 95	English	Pass
	Turbo C++	3.1	Windows	English	Pass
	Borland Delphi	2.0	Windows 95	English	Pass
Diagnostic Program	Bapco95 for Win NT	1.0	Windows NT	English	Pass
	Bapco95 for Win 95	1.0	Windows 95	English	Pass
	PC Magazine Winstone 97	1.0	Windows 95	English	Pass
	Speed for Win95	3.0	Windows	English	Pass
	QAPLus	5.50	DOS	English	Pass
	QAPLus	7.0	Windows 95	English	Pass
	Landmark(Speedcom)	2.0	DOS	English	Pass
	QAPLus	4.8	DOS	English	Pass
	Check IT Pro	3.0	Windows 95	English	Pass
Tools	AfterDark	3.0	DOS	English	Pass
	AfterDark	3.0	Windows	English	Pass
	AfterDark for Win95	3.0	Windows 95	English	Pass
	Xing Soft MPEG Player	3.0	Windows 95	English	Pass
	Central Point Backup	1.0	Windows	English	Pass
	Desq View386	2.7	Windows	English	Pass
	Norton Backup	2.2	Windows	English	Pass
	Norton Commander	5.0	DOS	English	Pass
	Norton Desktop	3.0	Windows	English	Pass
	Norton Utility	9.0	Windows 95	English	Pass
	Norton Utility	8.0	Windows	English	Pass
	Microsoft Plus!	1.0	Windows 95	English	Pass
	Microsoft Plus!	1.0	Windows 95	Chinese	Pass
	QEMM386	8.00	Windows 95	English	Pass
	Sidekick	2.0	DOS	English	Pass

Item	Descriptions	Version	O.S.	Language	Status
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Time Management	MS Project	4.1	Windows 95	English	Pass
	Organizer	2.1T	Windows	Chinese	Pass
Scan	PC-cillin 97	5.0	Windows 95	English	Pass
	Norton Antivirus	2.0	Windows 95	English	Pass
Internet	Winsock	1.0	Windows 95	English	Pass
	Netscape	3.01	Windows 95	English	Pass
	Internet Explore	2.0/3.0	Windows 95	English	Pass
	Winspan	4.0	Windows	English	Pass
CD Title Game	3D Ultra Pin Ball	1.0	Windows 95	English	Pass
	Duke Nukem 3D	1.0	DOS	English	Pass
	Toy Story	1.0	Windows	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
	MYST	1.0	Windows 95	English	Pass
	Indy Car II Racing	1.0	DOS	English	Pass
	International Tennis Open	1.0	DOS	English	Pass
	Escape from Cyber City	1.0	DOS	English	Pass
	HAVOC	1.0	Window 95	English	Pass
	Descent			English	Pass
	Tle Fighter Wars			English	Pass
	DIABLO BLIZZARD		Win95 or NT4.0	English	Pass
	DARK FORCES WARS		DOS	English	Pass
	WARCRAFT II TIDES OF DARKNESS		DOS, WIN31 & WIN95	English	Pass
	FULL THROTTLE			English	Pass



Item	Descriptions	Version	O.S.	Language	Status
	FRONT LINES			Chinese	Pass
	Command & Conquer Red Alert			English	Pass
	Master of Orion II Battle at Antares		WIN95	English	Pass
	Command & Conquer			English	Pass
	Broken & Word			English	Pass
	War Wind		WIN95	English	Pass
	Hellbender		WIN95	English	Pass
	The Beast Within			English	Pass
	Gamebreak			English	Pass
CD Title	Cinderella		Windows	English	Pass
Multimedia	LivingBook GrandMa&Me		Windows	English	Pass
	Top Gun		Windows	English	Pass
	Multimedia SuperPack		Windows	English	Pass
	Compton's Interactive Encyclopedia		Windows	English	Pass
	Adams Family		Windows	English	Pass
	Blank Rain		Windows	English	Pass
CD Title	Action	3.0	Windows	English	Pass
	Calendar Address Book		Windows	English	Pass
	The Ultrasound CD		Windows	English	Pass
	TripMaker		Windows	English	Pass

