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1. Motherboard Specification

CPU Support	Vender/Type: Intel Celeron (PPGA & FC-PGA) / Coppermine processor, PPGA and Cyrix PPGA CPU Support.
PCB Revision	1.0
BIOS Revision	Evaluation (Xae901t1.bin)
PCB form factor	ATX (304*190 mm)
PCB Layer	4 layers
Keyboard connector type	PS/2 Keyboard default
Bus Architecture	AGP slot*1, PCI slot*5
Main Chipset	VIA VT82C694X (NB) VIA VT82C686A (SB)
Main Memory	3 x DIMM
RTC & Battery	VT82C686A included 256 bytes CMOS SRAM Battery: Coin Battery / KTS CR2032
Clock chip	ICS 9248DF-39
I/O Ports	2xPCI IDE port ("Ultra DMA33/66") 1xFloppy port (2 floppy drives, 360K/720K/1.2M/1.44M/2.88M/3 mode) 1xSIR port header General I/O function (Speaker, Power LED, Green LED, HDD LED, Reset, SMI, Power SW) 1xSPP/EPP/ECP parallel port 25-pin D-type connector 1xPS/2 mouse port and 1xPS/2 keyboard port connectors 2x16550 serial port 10-pin D-type connectors 2xUSB connectors 2xUSB header 1xline out, 1xline in, 1xMIC in connector, 2xCD-In 1x15-pin joystick connector 1xAMR slot, 1xAGP slot, 5xPCI slot
BIOS	ASD AE49F2008-12 / 2 M bit Award v6.00PG PnP, CD-ROM boot, USB supports
VIA IDE Driver	ECS Driver CD 5.2
K/B Controller	VIA VT82686A build in super I/O
Flash Utility	Awdflash 7.76a
Sound / Driver	Realtek codec ALC100P_VIA / ECS Drivers CD 5.2

2. BIOS Basic Test

BIOS version & type

Version / Date	Xae901t1.bin (09 / 01 / 2000)
Brand / Size	ASD AE49F2008-12 / 2MB

2.1 BIOS Basic Functions Test

Intel CPU

Configuration		Memory: 192MB SDRAM LGS GM72V66841CT7J 64MB*3 IDE HDD: Fujitsu MPD3064AT IDE CD-ROM: ACER 40X Graphics Adapter: ASUS V6600 32MB (4X) Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC Network Adapter: Extend Realtek 8139C LAN card SCSI Adapter: Adaptec AHA-2940UW SCSI Device: Quantum ATLAS IV KN09L011 LS-120: Panasonic LKM-F434-105 ZIP: Iomega ZIP 100 IDE Driver: VIA 4 in 1 v4.24								
Socket370 CPU Speed Detect										
CELERON 66MHz 128 Cache	PPGA 400 (66*6)	PPGA 466 (66*7)	PPGA 500 (66*7.5)	PPGA 533 (66*8)						
BIOS V core	2.02v	2.02v	2.01v	2.01v						
Sign on	Pass	Pass	Pass	Pass						
L2 cache	Pass	Pass	Pass	Pass						
CELERON 66MHz 128 Cache	FC-PGA CE533A (66*8) 1.5V	FC-PGA CE566 (66*8.5) 1.5V	FC-PGA CE600 (66*9) 1.5V	FC-PGA CE633 (66*9.5) 1.6V	FC-PGA CE667 (66*10) 1.6V	FC-PGA CE700 (66*10.5) 1.6V	FC-PGA CE733 (66*11) 1.6V			
BIOS V core	1.52v	1.52v	1.52v	1.66v	1.66v	1.66v	1.71v			
Sign on	Pass	Pass	Pass	Pass	Pass	Pass	Pass			
L2 cache	Pass	Pass	Pass	Pass	Pass	Pass	Pass			
Pentium III 100MHz 256 Cache	FC-PGA 550E (100*5.5) 1.6V	FC-PGA 600E (100*6) 1.6V	FC-PGA 650 MHz (100*6.5) 1.6V	FC-PGA 700 MHz (100*7) 1.6V	FC-PGA 750 MHz (100*7.5) 1.6V	FC-PGA 800 MHz (100*8) 1.6V	FC-PGA 850 MHz (100*8.5) 1.6V			
BIOS V core	1.62v	1.66v	1.66v	1.66v	1.66v	1.66v	1.71v			
Sign on	Pass	Pass	Pass	Pass	Pass	Pass	Pass			
L2 cache	Pass	Pass	Pass	Pass	Pass	Pass	Pass			
Pentium III 133MHz 256 Cache	FC-PGA 600EB (133*4.5) 1.6V	FC-PGA 667 MHz (133*5) 1.6V	FC-PGA 733 MHz (133*5.5) 1.6V	FC-PGA 800EB (133*6) 1.6V	FC-PGA 866 MHz (133*6.5) 1.6V	FC-PGA 933 MHz (133*7) 1.6V	FC-PGA 1.0B GHz (133*7.5) 1.6V			
BIOS V core	1.63v	1.63v	1.64v	1.65	1.65v	1.69v	1.71v			
Sign on	Pass	Pass	Pass	Pass	Pass	Pass	Pass			
L2 cache	Pass	Pass	Pass	Pass	Pass	Pass	Pass			

TM-VA370E Compatibility and Benchmark Report

VIA Cyrix CPU

VIA Cyrix CPU Speed Detect									
VIA Cyrix III 100MHz	550MHz (100*5.5) 1.90V	600MHz (100*6) 1.90V							
BIOS V core	1.92v	1.92							
Sign on	Pass	Pass							
VIA Cyrix III 133MHz	533MHz (133*4) 1.90V	600MHz (133*4.5) 1.90V							
BIOS V core	1.92	1.92							
Sign on	Pass	Pass							

Boot Sequence

BOOT Sequence test (Floppy, HDD-0, SCSI, CDROM, HDD-1, HDD-2, HDD-3, ZIP100, LAN, USB FDD, USB ZIP, Disable)									
Device Type		Floppy A:	HDD 0/1/2/3	USB FDD	USB ZIP100	CD-ROM	SCSI	LAN	Disable
First Boot device		Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Second Boot device		Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Third Boot device		Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Other device		Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass
Primary		Secondary				Status		Remark	
Master	Slave	Master		Slave		DOS			
HDD0	HDD1	HDD2		HDD3		Pass		BIOS summary check, if sign on message detected correct device, please full in "Pass"	
HDD0	HDD1	IOMAGE		IOMAGE		Pass			
HDD0	IOMAGE	CD-ROM		-----		Pass			
HDD0	IOMAGE	CD-ROM		CD-ROM		Pass			
HDD0	CD-ROM	LS-120		IOMAGE		Pass			
HDD0	CD-ROM	LS-120		HDD1		Pass			

BIOS Feature

Configuration	CPU: Intel FCPGA PIII-933 (133 x 7.0)			
	Memory: 192MB SDRAM LGS GM72V66841CT7J 64MB*3			
	IDE HDD: Fujitsu MPE3102AH UDMA 66			
	IDE CD-ROM: ACTIMA 50X-196A			
	Graphics Adapter: ASUS V6600 32MB (4X)			
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC			
	USB FDD: Generic USB FDD (UD-376)			
	USB ZIP: Iomega USB ZIP 100			
	IDE ZIP: Iomega IDE ZIP 100			
	IDE Driver: VIA 4 in 1 v4.24			
IDE HDD Detection				
UDMA 66 HDD / Cable Type	ATA 33 Cable	ATA 66 Cable	ATA 100 Cable	Remark
BIOS sign on	ATA 33	ATA 66	ATA 66	
Flash BIOS				
Test Item	Status	Remark		
Flash BIOS	Pass*Q1	Award776a.exe		

TM-VA370E Compatibility and Benchmark Report

DMI Date Check				
DMI support check		Not support	DMICFG.EXE Version: 2.3Du	
Processor		N/A	L1/L2Cache check	
Memory Control		N/A	BANK/ROW check	
Product Name		N/A	Pleas write down sign on message If message is empty, please fill in “N/A”	
Manufacturer Name		N/A		
BIOSLOCK function test				
Test Item		Status	Remark	
BIOSLOCK		Pass	Please check BIOSLOCK serial TEXT (version 1.02)	
PCI HEALTH function check (Include VIA VT82C686A SB)				
Test Item		BIOS detect Value	Measure Value	Remark
1. Shutdown temperature		Disabled	N/A	CPU: Intel Pentium III FCPGA 866MHz (133MHz*7) Power Supply: PC100 MXM-145TF1 1. Please write down BIOS detected value or voltage. 2. Use blower to confirm thermal temp function. 3. N/A equal not support or can’t measure.
2. V-core		1.71v	1.79v	
3. VCC+2.5V		2.5v	2.52v	
4. VCC+3.3V		3.31v	3.35v	
5. VCC Analog (+5)		5.05v	5.04v	
6. +12V		+11.64v	+12.14v	
7. System FAN		6012 RPM	N/A	
8. Power FAN		6012 RPM	N/A	
Password Setting / Clear				
Test Item		Setup	Clear CMOS	Remark
Set Password		Pass	Pass	
BIOS General item				
Virus Warning		Pass		
ECP mode of LPT				
Test Item		Status	Remark	
DMA 1		Pass	Direct Parallel Universal Cable	
DMA 3		Pass	Direct Parallel Universal Cable	
EPP mode of LPT				
Test Item		Status	Remark	
Protocol Mode 1.7		Pass	Direct Parallel Universal Cable	
Protocol Mode 1.9		Pass	Direct Parallel Universal Cable	
USB Function Test				
Test Item		Status		Remark
USB K/B	MS-DOS 6.22	Pass		BTC 8113W USB K/B
	Windows 98 SE	Pass		
USB Mouse	Windows 98 SE	Pass		Microsoft USB Mouse
	Windows Me	Pass		
	Windows 2000 Professional	Pass		

2.2 Power Management Test

Time-out			
O.S. Environment	PM Timer Setup		Resume
	Suspend	Resume	
MS-DOS 6.22	Pass	Pass	
Software Suspend (Click suspend bar)			
O.S. Environment	Suspend	Resume	
Windows 98 SE /APM	Pass		
Windows 98 SE /ACPI	Pass		
Windows Me	Pass		
Windows 2000 Professional	Pass		

ACPI Function States		
O.S. Environment	S1 (Suspend)	Resume
Windows 98 SE	Pass	
Windows Me (Build 3000)	Pass	
Windows 2000 Professional	Pass	
Wake-Up function		
Test Item	Status	Remark
Win98 Keyboard	Pass	UMC K220 (DOS mode)
USB Keyboard	Pass	BTC 8113W (DOS mode)
PS/2 Keyboard	Pass	MCK-101X (DOS mode)
Power-On function		
Test Item	Status	Remark
Power Button	Pass	
RTC Alarm	Pass	

3. Hardware Basic Test

PCI Slot Check			
PCI Slot	ID Number	Status	Remark
4X AGP	11	Pass	ASUS v6600 – GeForce 256
PCI slot 1	21	Pass	AHA-2940UW
PCI slot 2	22	Pass	Intel 82559
PCI slot 3	23	Pass	D-link DE-530
PCI slot 4	24	Pass	Realtek RTL8139C
PCI slot 5	25	Pass	Intel 82559
Codec sound	18	Pass	On board ALC100P-VIA
S/W Reset			
Test Item	Status		Remark
S/W Reset	Pass		Press <Ctrl+Alt+Del> 30 Times
Power LED			
Jumper	Status		Remark
PANEL1 Pin 1,2 (+) – 3 (-)	Pass		
Sleep Switch			
Jumper	Status		Remark
PANEL1 Pin 4 – 5	Pass		
Green LED			
Jumper	Status		Remark
PANEL1 Pin 7,8 (+) – 9 (-)	Pass		
KB LOCK			
Jumper	Status		Remark
PANEL1 Pin 10,11	Pass		
H/W Reset			
Jumper	Status		Remark
PANEL1 Pin 12 – 13	Pass		Touch H/W reset pin 30 Times
Speaker Function			
Jumper	Status		Remark
PANEL1 Pin 15 – 16– 17 – 18	Pass		
HDD LED			
Jumper	Status		Remark
PANEL1 Pin 20 (+) – 21 (-)	Pass		
Power On			
Jumper	Status		Remark
PANEL1 Pin 22 – 23	Pass		Press power button pin 30 Times
Clear COMS			
Jumper	Status		Remark
JP1	Pass		1-2: Normal (default), 2-3: Clear
K/B Wake-up			
Jumper	Status		Remark
JP2	Pass		1-2: Disable (default), 2-3: Enable
BIOS PROTECT			
Jumper	Status		Remark
JP3	Pass		1-2: Disable (default), 2-3: Enable

CODEC selector		
Jumper	Status	Remark
JP4	Pass	1-2: on-board CODEC (default), 2-3: use AMR slot CODEC
AMR select		
Jumper	Status	Remark
JP5	Pass	1-2: Slave (default), 2-3: Master
CPU over clock		
Jumper	Status	Remark
JP6	Pass	1-2: Normal (default), 2-3: 66->100
CPU FSB select		
Jumper	Status	Remark
JP7	Pass	2: 66/100 (default), 2-3: 133
ROM TYPE		
Jumper	Status	Remark
JP500	Pass	1-2: 5.0V (default), 2-3: 3.3V
2M/4M ROM select		
Jumper	Status	Remark
JP501	Pass	Open: 2M (default), Short: 4M
USB1		
Connector	Status	Remark
USB1 (port 1/2)	Pass	USB Dual-High 8 pin Connector
USB2		
Connector	Status	Remark
USB2 (port 3/4)	Pass	H2*5 header
COM1		
Connector	Status	Remark
COM1	Pass	D-Type connector
COM2		
Connector	Status	Remark
COM2	Pass	D-Type connector
LPT1		
Connector	Status	Remark
LPT1	Pass	D-Type connector
Modem wake-up		
Connector	Status	Remark
WOM1	Pass	
LAN wake-up		
Connector	Status	Remark
WOL1	Pass	
AMR1 slot		
Connector	Status	Remark
AMR1	Pass	Use Smart Link MR card

Multimedia Function Test			
Realtek ALC100P AC'97 Audio CODEC			
Item test	Jumper	Status	
Line-out	JS1	Pass	
Line-in		Pass	
MIC		Pass	
Joystick	JS1	Pass	Control by: Microsoft SideWinder Force Feedback Pro
Realtek ALC100P Driver		Pass	ECS Driver CD 5.2
CD1		Pass	DVD-ROM: MATSUSHITA SR-8583B
CD2		Pass	CD-ROM: BTC 52X
3.3Vaux			
Test Item		Status	Remark
FoxFire II test card		Pass	Plug-in Fox Fire II (Full insert PCI slot)
SIR1			
IR Function Duplex		Status	Remark
Half		Pass	
Fan Connector			
Fan Jumper		Status	Remark
CPUFAN1		Pass	Pin1: GND, Pin2: +12V, Pin3: Sensor
PWRFAN1		Pass	Pin1: GND, Pin2: +12V, Pin3: Sensor
Leakage Test		Pass	5.5uA
RTC Function	Dynamic:	+1sec / 4day	Boot to WindowsSE98 system
	Static:	+0.5 sec / day	Remove any power (normal ± 2 sec/day)

TM-VA370E Compatibility and Benchmark Report

4. Factory Test:

4.1 DOS Environment:

Qaplus 5.6

Configuration	CPU: Intel FCPGA PIII-866 (133 x 6.5)	
	Memory: 192MB SDRAM TwinMOS TBS6408B4E-6 64MB*3	
	IDE HDD: Seagate ST32132A (PIO4)	
	IDE CD-ROM: Toshiba – SD-M1102	
	Graphics Adapter: ASUS V6600 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	Utility version: V5.60	
	IDE Driver: VIA 4 in 1 v4.24	
Test Item	Status	Remark
System Board	Fail*	(Every item)
Memory	Pass	(Every item)
Video	Pass	(Every item)
Floppy Disks	Pass	(Every item)
Keyboards	Pass	(Every item)
COM Ports	Pass	(Every item)
LPT Ports	Pass	(Every item)

Fail*: Refer Limitaion L1.

AMIDIAG 6.0 (Basic function)

Configuration	CPU: Intel FCPGA PIII-700 (100 x 7.0)	
	Memory: 192MB SDRAM TwinMOS TBS6408B4E-6 64MB*3	
	IDE HDD: Seagate ST32132A (PIO4)	
	IDE CD-ROM: Toshiba – SD-M1102	
	Graphics Adapter: ASUS V6600 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	Utility version: V6.0	
	IDE Driver: VIA 4 in 1 v4.24	
Test Item	Status	Remark
System	Pass	(Every item)
Memory	Fail*	(Every item)
FDD	Pass	(Every item)
KBD	Pass	(Every item)
VIDEO	Pass	(Every item)
USB	Pass	(Every item)
MISC	Pass	(Every item)

Fail*: Refer Q2

AUDIO:

Configuration	CPU: Intel FCPGA PIII-700 (100 x 7.0)	
	Memory: 192MB SDRAM TwinMOS TBS6408B4E-6 64MB*3	
	IDE HDD: Seagate ST32132A (PIO4)	
	IDE CD-ROM: Toshiba – SD-M1102	
	Graphics Adapter: ASUS V6600 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	Utility version: V1.11	
	IDE Driver: VIA 4 in 1 v4.24	
ALC100P_VIA codec sound		
Type	Status	Remark
Config. /Ctrl Register Access	Pass	
Codec I/O Access	Pass	
Midi Channel Playback Test	Pass	
AC97 Wave Playback Test	Pass	
SB Pro Playback Test	Pass	

4.2 Novell Environment:

Please connected NET cable

Boot from ROM (100M Netware line)

Configuration	CPU: Intel FCPGA PIII-866 (133 x 6.5)	
	Memory: 192MB SDRAM TwinMOS TBS6408B4E-6 64MB*3	
	IDE HDD: Seagate ST32132A (PIO4)	
	IDE CD-ROM: Toshiba – SD-M1102	
	Graphics Adapter: ASUS V6600 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	Extend LAN: PCI Realtek RTL8139C LAN card	
	Utility version: V1.11	
	IDE Driver: VIA 4 in 1 v4.24	
Type	Status	Remark
BOOT form LAN	Pass	5 times

Boot from Diskette (100M Netware line)

Configuration	CPU: Intel FCPGA PIII-866 (133 x 6.5)	
	Memory: 192MB SDRAM TwinMOS TBS6408B4E-6 64MB*3	
	IDE HDD: Seagate ST32132A (PIO4)	
	IDE CD-ROM: Toshiba – SD-M1102	
	Graphics Adapter: ASUS V6600 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	Extend LAN: PCI Realtek RTL8139C LAN card	
	IDE Driver: VIA 4 in 1 v4.24	
Test Item	100M	Remark
BOOT from Disk	Pass	5 times

I/O component (COM port, LPT port)

Configuration	CPU: Intel FCPGA PIII-700 (100 x 7.0)	
	Memory: 128MB SDRAM TwinMOS TBS6408B4E-6 128MB*1	
	IDE HDD: Seagate ST32132A (PIO4)	
	IDE CD-ROM: Toshiba – SD-M1102	
	Graphics Adapter: ASUS V6600 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	IDE Driver: VIA 4 in 1 v4.24	
	Utility version: V4.8	
VIA 686A-super I/O (IO0808.EXE)		
Type	Status	Remark
COM 1	Pass	
COM 2	Pass	
LPT 1	Pass	

Speed (SMI & Esc)

Configuration	CPU: Intel FCPGA PIII-700 (100 x 7.0)	
	Memory: 128MB SDRAM TwinMOS TBS6408B4E-6 128MB*1	
	IDE HDD: Seagate ST32132A (PIO4)	
	IDE CD-ROM: Toshiba – SD-M1102	
	Graphics Adapter: ASUS V6600 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	IDE Driver: VIA 4 in 1 v4.24	
	Utility version: V2.0	
Test Item	Status	Remark
Speed	Pass	

TM-VA370E Compatibility and Benchmark Report

SMI Resume	Pass	
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Check-it

Configuration	CPU: Intel FCPGA PIII-700 (100 x 7.0)	
	Memory: 128MB SDRAM TwinMOS TBS6408B4E-6 128MB*1	
	IDE HDD: Seagate ST32132A (PIO4)	
	IDE CD-ROM: Toshiba – SD-M1102	
	Graphics Adapter: ASUS V6600 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	IDE Driver: VIA 4 in 1 v4.24	
	Utility version: V3.0	
Test Item	Status	Remark
Memory	Pass	(Every item)
Floppy Dist Test	Pass	(Insert, R/W)
System Board Test	Pass	(Every item)
Real-Time clock	Pass	(Every item)
Serial ports	Pass	(COM1/2)
Parallel ports	Pass	(Every item)
Video	Pass	(Every item)
Keyboard	Pass	(Every item)

**4.3 Windows 98SE Environment:
BCM**

Configuration	CPU: Intel FCPGA PIII-550 (100 x 5.5)	
	Memory: 128MB SDRAM MT48LC8M8A2 64MB*2	
	IDE HDD: Fujitsu MPE3170AT	
	IDE CD-ROM: Pioneer DVD-103S	
	Graphics Adapter: ASUS V3800 TNT2 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	IDE Driver: VIA 4 in 1 v4.24	
Test Item	Status	Remark
Processor Test	Pass	(Every item)
Memory Test	Pass	(Every item)
I/O Port Test	Pass	(Every item)
Audio Test	Pass	(Every item)
Modem Test	Pass	(Every item)
Graphics Test	Pass	(Every item)
Floppy Disk Test	Pass	(Every item)

Speedy

Configuration	CPU: Intel FCPGA PIII-550 (100 x 5.5)	
	Memory: 128MB SDRAM MT48LC8M8A2 64MB*2	
	IDE HDD: Fujitsu MPE3170AT	
	IDE CD-ROM: Pioneer DVD-103S	
	Graphics Adapter: ASUS V3800 TNT2 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	IDE Driver: VIA 4 in 1 v4.24	
Test Item	Status	Remark
Speedy	Pass	Over 10 Min.

TM-VA370E Compatibility and Benchmark Report

Win98 Reboot

Configuration	CPU: Intel FCPGA PIII-550 (100 x 5.5)	
	Memory: 128MB SDRAM MT48LC8M8A2 64MB*2	
	IDE HDD: Fujitsu MPE3170AT	
	IDE CD-ROM: Pioneer DVD-103S	
	Graphics Adapter: ASUS V3800 TNT2 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	IDE Driver: VIA 4 in 1 v4.24	
Test Item	Status	Remark
Win98 Reboot- loop test	PASS	

Checkit98

Configuration	CPU: Intel FCPGA PIII-550 (100 x 5.5)	
	Memory: 128MB SDRAM MT48LC8M8A2 64MB*2	
	IDE HDD: Fujitsu MPE3170AT	
	IDE CD-ROM: Pioneer DVD-103S	
	Graphics Adapter: ASUS V3800 TNT2 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	IDE Driver: VIA 4 in 1 v4.24	
Test Item	Status	Remark
CheckIt QuickCheck	Pass	
Drives Test	Pass	
Memory Test	Pass	
Modem Test	Pass	
Motherboard Test	Pass	
Ports Test (Serial / Parallel)	Pass	
Video Calibration Test	Pass	
Year 2000 Test	Pass	

Norton Utilities 2000

Configuration	CPU: Intel FCPGA PIII-550 (100 x 5.5)	
	Memory: 128MB SDRAM MT48LC8M8A2 64MB*2	
	IDE HDD: Fujitsu MPE3170AT	
	IDE CD-ROM: Pioneer DVD-103S	
	Graphics Adapter: ASUS V3800 TNT2 32MB (4X)	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	IDE Driver: VIA 4 in 1 v4.24	
Test Item	Status	Remark
Memory	Pass	
Printer	Pass	
Serial Port	Pass	
Sound Card	Pass	
System Board	Pass	

5. Performance Test:

5.1 Windows 98 SE

System performance

Configuration	IDE HDD: Fujitsu MPE 3102AH			
	IDE CD-ROM: ACTIMA 50X-196A			
	Graphics Adapter: ASUS V6600 32MB (4X), 1024 x 768 x 16bit color			
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC			
	IDE Driver: VIA 4 in 1 v4.24			
CPU Type	CPU FSB – 133MHz: Intel FCPGA PIII-933 (133 x 7.0)			
	CPU FSB – 100MHz: Intel FCPGA PIII-850 (100 x 8.5)			
	CPU FSB – 66MHz: Intel FCPGA Celeron-733 (66 x 11.0)			
Memory Type	Memory FSB - 133 MHz: 256 SDRAM IBM 0364804CT3C 128MB*2			
	Memory FSB - 100MHz: 256 SDRAM Apacer AM2V6484A4N-8 128MB*2			
FSB HCLK/MCLK		Synchronize		Asynchronies
		100/100	133/133	133/100
				100/133
Winstone99 v1.3 / Business		27.4	30.5	29.9
3D Mark 2000 Pro		4056	4153	4083
3D WinMark 2000 v1.0		76.8	78.3	77
Final Reality v1.01		5.62	6.50	5.96
Winbench 99 V1.1	CPU Mark 99	77.9	82.6	78.8
	FPU WinMark	4530	4960	4950
	Graphics WinMarks Business	Fail*	2680	Fail*
	Graphics WinMarks High-End	1002	1070	1050

Fail*: Refer Q3

IDE performance

Configuration	CPU: Intel FCPGA PIII-933 (133 x 7) -C		
	Memory: 128MB SDRAM MT48LC8M8A2 64MB*2		
	IDE HDD: Matrox 53073H6 DAC10Sc0 / ATA 100		
	IDE CD-ROM: ACTIMA 50X-196A		
	Graphics Adapter: ASUS V6600 32MB (4X), 10		
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC		
	IDE Driver: VIA 4 in 1 v4.24		
	Driver: ECS driver CD v5.2		
IDE Cable Type	ATA 100 Cable	ATA 66 Cable	ATA 33 Cable
Winstone99 v1.3 / Business	30.2	30.1	30.3
Winbench 99 V1.1	Disk WinMarks Business	5590	5890
	Disk WinMarks High-End	17600	17700

Graphics performance

Configuration	CPU: Intel FCPGA PIII-933 (133 x 7) -C	
	Memory: 256MB SDRAM IBM 0394804CT3C-75A 128MB*2	
	IDE HDD: Matrox 53073H6 DAC10Sc0 / ATA 100	
	IDE CD-ROM: ACTIMA 50X-196A	
	Graphics Adapter: ASUS V6600 32MB (4X), 1024 x 768 x 16bit	
	Audio Adapter: Onboard Sound Realtek ALC100P AC'97 Audio CODEC	
	IDE Driver: VIA 4 in 1 v4.24	
	Driver: ECS driver CD v5.2	
VGA Adapter Type	ASUS V6600 32MB (4X)	S3 Savage 4 Pro 4MB (4X)
3D Mark 2000 Pro	4153	1462
3D WinMark 2000 v1.0	78.3	27.6
Final Reality v1.01	6.50	5.47
Winbench 99 V1.1	Graphic WinMarks Business	Fail*
	Graphic WinMarks High-End	889

Fail*: Refer Q4

6. Environment Test for Windows 98SE / Windows ME

6.1 O.S. Installation

O.S.	Configuration
Windows 98SE (ACPI) Ver: 4.10.2222A (Install form Floppy) English Language	CPU: Intel FCPGA Celeron-667 (66 x 10) Memory: 192MB SDRAM SIEMENS HYB39S64800AT-7.5 64MB*3 IDE HDD: Quantum KA6400AT IDE DVD-ROM: Pioneer DVD ROM DVD103R Graphics Adapter: GIGYBYTE GA-660-32D NVIDIA RIVA TNT2 32MB Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR
O.S. Installation	Pass
Driver Installation	Pass
Windows 98SE (ACPI) Ver: 4.10.2222A (Pre-Install) English Language Professional	CPU: Intel FCPGA PIII-700 (100 x 7.0) Memory: 384MB SDRAM LGS GM72V66841CT7J 128MB*3 IDE HDD: Quantum KA6400AT IDE CD-ROM: LITE-ON LTN-485S Graphics Adapter: ELSA Erazor X nVidia GeForce 256 Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: Realtek RTL8139C Fast Ethernet adapter SCSI Adapter: Adaptec AHA-2930U2 SCSI Device: Quantum ATLAS IV KN9100LW
O.S. Installation	Pass
Driver Installation	Pass
Millennium Edition (ACPI) Ver: 4.90.3000 (Install form Floppy) English Version	CPU: Intel FCPGA PIII-933 (133 x 7.0) Memory: 192MB SDRAM Apacer AM2V648A4N-8 64MB*3 IDE HDD: Quantum KA6400AT IDE CD-ROM: LITE-ON LTN-485S Graphics Adapter: ATI Rage 128 Pro Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: Conexant RH56D-PCI Network Adapter: D-Link DE-500TX SCSI Adapter: Qlogic QLA510-P SCSI Device: Seagate ST39140N
O.S. Installation	Pass
Driver Installation	Pass
Millennium Edition (ACPI) Ver: 4.90.3000 (Pre-Install) English Version	CPU: Intel FCPGA PIII-800 (100 x 8.0) Memory: 256MB SDRAM HYUNDAI GM72V66841ET75 128MB*2 IDE HDD: Maxtor 51024 U2 IDE CD-ROM: MATSHITA DVD-ROM SR-8583B Graphics Adapter: ASUS ASUS V3500 Series Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: Accton EN1207D-TX/WOL SCSI Adapter: Tekram DC-390U3W SCSI Device: IBM DNES-309170
O.S. Installation	Pass
Driver Installation	Pass

6.2 Power Management Function Test

Configuration	CPU: Intel FCPGA PIII-933 (133 x 7.0)		
	Memory: 192MB SDRAM Apacer AM2V648A4N-8 64MB*3		
	IDE HDD: Quantum KA6400AT		
	IDE CD-ROM: LITE-ON LTN-485S		
	Graphics Adapter: ATI Rage 128 Pro		
	Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC		
	Modem Adapter: PCTEL HSP56 MR		
	Network Adapter: Intel 82559 PRO/100+ Management		
	SCSI Adapter: Adaptec AHA-2940U/2940UW		
	SCSI Device: Seagate ST39140N		
USB Device: Microsoft Wheel PS/2 mouse / Microsoft USB Keyboard			
Windows 98SE Power Management Function Test			
Suspend mode (S1)	Wake up by	Status	Remark
	Power Button	Pass	
	WOL	Pass	Intel 82559
	USB Device	Pass	Microsoft Wheel PS/2 mouse
	Resume to Windows	Status	Remark
	Audio CD	Pass	
	USB Device	Pass	
	Network	Pass	
Hibernate mode (S4)	Wake up by	Status	Remark
	Power Button	Pass	
	WOL	Pass	Intel 82559
	PME	Pass	Intel 82559
	USB Device	Pass	Microsoft USB Keyboard
	Resume to Windows	Status	Remark
	Audio CD	Pass	
	USB Device	Pass	
Network	Pass		

6.3 General Function Test

Configuration	CPU: Intel FCPGA PIII-933 (133 x 7.0)						
	Memory: 192MB SDRAM Apacer AM2V648A4N-8 64MB*3						
	IDE HDD: Quantum KA6400AT						
	IDE CD-ROM: LITE-ON LTN-485S						
	Graphics Adapter: ATI Rage 128 Pro						
	Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC						
	Modem Adapter: PCTEL HSP56 MR						
	Network Adapter: Intel 82559 PRO/100+ Management						
SCSI Adapter: Adaptec AHA-2940U/2940UW							
SCSI Device: Seagate ST39140N							
USB Device: Microsoft Wheel PS/2 mouse / Microsoft USB Keyboard							
Test Item				Status		Remark	
General Test							
DOS Command				Pass			
Multitask Test				Pass			
Suspend				Pass			
Suspend To RAM				Pass			
Hibernate				Pass			
Network setting				Pass			
Multimedia				Pass			
Play Game				Pass			
Multimedia Test							
Sound				Pass		All formats	
Software MPEG				Pass		Windows Media Player	
Software DVD				Pass		InterVideo WinDVD	

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Microphone Record	Pass	
Earphone Function	Pass	
Utility Test		
3D Mark2000 V1.1	Pass	
3D Winbench 2000 V1.1	Pass	
Winbench 99 V1.2	Pass	
Winstone 99 V1.3	Pass	
Winstone Content Creation V1.0	Pass	
Final Reality V1.01	Pass	
HCT 9.501	Pass	
SYSMark 2000 V1.0	Pass	
Xtest Launcher 32 V4.11	Pass	

6.4 Hardware Compatibility Test

IDE Device

Mode	Model	Status	Remark
HDD			
UDMA 2/4	Fujitsu MPA3035AT	Pass	
	Fujitsu MPA3052AT	Pass	
	Fujitsu MPB3021AT	Pass	
	Fujitsu MPB3052AT	Pass	
	Fujitsu MPB3064AT	Pass	
	Fujitsu MPC3032AT	Pass	
	Fujitsu MPC3064AT	Pass	
	Fujitsu MPD3064AT -UW	Pass	
	Fujitsu MPD3084AT -UW	Pass	
	Fujitsu MPE 3084AE	Pass	
	Fujitsu MPE 3102AT	Pass	
	Fujitsu MPE 3102AH-E	Pass	
	Fujitsu MPE 3204AH	Pass	
	IBM DTTA-350430	Pass	
	IBM DTTA-350840	Pass	
	IBM DTTA-351680	Pass	
	IBM DJNA-372200	Pass	
	Maxtor 90576D4	Pass	
	Maxtor 91152D8	Pass	
	Maxtor Diamond MAX VL17 90871 U2	Pass	
	Maxtor Diamond MAX VL20 91021 U2	Pass	
	Maxtor Diamond MAX VL20 91531 U3	Pass	
	Quantum CR4300	Pass	
	Quantum Fireball CX6.4GB	Pass	
	Quantum KA6400AT (KA06A011)	Pass	
	Quantum KA9100AT (KA09A881)	Pass	
	Quantum Fireball CX 6.4GB CX6400AT	Pass	
	Samsung SV2044D	Pass	
	Samsung SV1022D	Pass	
	Samsung SV0432A	Pass	
	Samsung SV0432D	Pass	
	Samsung SV0431D	Pass	
	Samsung SV0842D	Pass	
	Seagate ST32112A	Pass	
	Seagate ST34313A	Pass	
	Seagate ST34311A	Pass	
	Seagate ST34313A (U8)	Pass	
	Seagate ST34321A	Pass	

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	Seagate ST38410A 3.20	Pass	
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	Seagate ST38410A 3.03	Pass	
	Seagate ST38421A	Pass	
	Seagate ST39140A	Pass	
	Seagate ST310212A (U10)	Pass	
	Seagate ST315323A (U10)	Pass	
	Seagate ST313620A	Pass	
	Seagate ST320430A3.11	Pass	
	Seagate ST328040A (Barracuda)	Pass	
	Western Digital WD Caviar 34000	Pass	
	Western Digital WD43100	Pass	
	Western Digital WD Caviar 36400	Pass	
	Western Digital WD Caviar AC28400	Pass	
	Western Digital WD Caviar AC313000	Pass	
	Western Digital WD Caviar 84AA	Pass	
CD-ROM			
32X	Aopen CD-932E/AKU	Pass	
	Matsushita CR-586	Pass	
	NEC CDR-1900 32X CD-ROM	Pass	
	SONY CDU-711-80	Pass	
	SONY CDU-711 32X CD-ROM	Pass	
	TEAC CD-532E	Pass	
34X	ASUS CD-S340	Pass	
36X	AOPEN CD-936E/AKU	Pass	
	ECS 3600	Pass	
40X	AOPEN CD-940E/AKU	Pass	
	ASUS CD-S400	Pass	
	BTC 40HX	Pass	
	TAC CD540E	Pass	
44X	BTC 44HX	Pass	
	BTC BCD 48X	Pass	
48X	LITE-ON LTN-485S	Pass	
50X	Acer 50X	Pass	
	ACTIMA A50T	Pass	
	BTC BCD 50X	Pass	
52X	BTC 52HX	Pass	
	BTC BCD F560D	Pass	
56X	AFFEY CD-2056E	Pass	
	BTC BCD 560A (56X 48SB)	Pass	
CD-RW	PLEXTOR PX-W8432Ti	Pass	
	SONY	Pass	
	Yamaha CRW4001t	Pass	
DVD	ASUS 6X max DVD-E606	Pass	
	AFREEY DD-4008E (8X DVD-ROM)	Pass	
	AOPEN DVD-1040 PRO 10X DVD	Pass	
	Creative Encore DXr2	Pass	
	CyberDrive 5X DVD-ROM DM822D	Pass	
	DVT1 SR-8585-BXX	Pass	
	Hitachi GD-2000	Pass	
	Panasonic SR-8174-BXX	Pass	
	Panasonic SR-8583-B	Pass	
	Panasonic LK-RV8581T	Pass	
	Pioneer DVD-102	Pass	
	Sony DDU220E	Pass	
	TUV SR-8583-B	Pass	
ZIP	Iomega Z100 ATAPI ZIP	Pass	
LS-120	Mitsubishi MF357G-2111MAL	Pass	

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Graphics Adapter

Model Type	Status	Remark
ATI Rage 128 GL Xpert128	Pass	
ATI Rage 128 VR 8MB	Pass	
ATI Rage 128 PRO 32MB	Pass	
ASUS AGP-V2740	Pass	
ASUS AGP-V3400TNT 8MB	Pass	
ASUS AGP-V3500 32MB	Pass	
ASUS AGP-V3800 TNT2 32MB	Pass	
ASUS V6600 GeForce 256	Pass	
ASUS AGP-V385GX2	Pass	
APAC S3 Savage 3D 8MB	Pass	
CREATIVE 3D BLASTER GeForce Pro 32MB DDR	Pass	
CREATIVE 3D BLASTER TNT2 Ultra 32MB	Pass	
Diamond Fire GL 1000 Pro	Pass	
Diamond Viper V770 TNT2	Pass	
ELSA ERAZOR X GeForce 256	Pass	
ELSA ERAZOR III LT-16 TNT2 VANTA 16MB	Pass	
ELSA GLADIAC MX GeForce2 MX 32MB	Pass	
ENNYAH Trident BLADE 3D 9880	Pass	
FASTWARE S3 Savage 4 GT 16MB	Pass	
Gainward S3 Savage4 Pro 32MB	Pass	
GIGABYTE GA-660-32D TNT2 32MB	Pass	
HMCC TNT2 M64 32MB	Pass	
HMCC S3 Savage4 Pro 32MB	Pass	
Matrox Productiva G100	Pass	
Matrox Mystique G200	Pass	
Matrox Millennium G400 DH	Pass	
MSI 8806 TNT2 32MB	Pass	
Sparkle TNT2 VANTA 8MB	Pass	
Voodoo 3 –3000 16MB	Pass	
Voodoo 5 – 5500 32MB	Pass	
WinFast 3D S320II TNT2 Ultra	Pass	
WinFast 3D S320V TNT2 VANTA 8MB	Pass	
WinFast 3D S325 TNT2 M64	Pass	
WinFast Geforce2 GTS 32MB DDRSGRAM	Pass	

Network Adapter

Model Type	Status	Remark
3COM 3C900-COMBO	Pass	
3COM Fast EtherLink 3C905B-TX	Pass	
3COM Fast EtherLink 3C905C-TX	Pass	
Accton EN9100TX	Pass	
Accton EN1207D-TX/WOL	Pass	
Accton EN1207D-TX5	Pass	
CNET PRO-120	Pass	
D-Link DFE-500TX	Pass	
D-Link DE-530CT	Pass	
Intel 82558 PRO/100+ Management	Pass	
Intel 82559 PRO/100+ Management	Pass	
Olicom 2325 10/100	Pass	
Realtek RTL8139A Fast Ethernet adapter	Pass	
Realtek RTL8139B Fast Ethernet adapter	Pass	
Realtek RTL8139C Fast Ethernet adapter	Pass	
SiS 900 Fast Ethernet adapter	Pass	
SMC 9334BDT EtherPower 10/100 Dual Channel	Pass	

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SCSI Adapter

Model Type	Status	Remark
Adaptec AHA-2940/2940U	Pass	Adaptec AIC 7870P
Adaptec AHA-2940U/2940UW	Pass	Adaptec AIC 7880P
Adaptec AHA-2940U2W	Pass	Adaptec AIC-7890AB
Adaptec AHA-3940	Pass	Adaptec AIC-7870P
Adaptec AHA-3940AUW	Pass	Adaptec AIC-7895P
Adaptec AHA-2930U2	Pass	Adaptec AIC-7890AB
Iwill SIDE-2935UW	Pass	initio INIC-950P
Qlogic QLA510-P	Pass	Qlogic ISP1020
Tekram DC-390	Pass	AMD AM53C974AKC
Tekram DC-390F	Pass	SYMBIOS LOGIC 53C875
Tekram DC-390U3W	Pass	

SCSI Device

HDD Model Type	Status	Remark
CONNER CFP1080S	Pass	
MICROPOLIS 4110	Pass	
Seagate ST51080N	Pass	
Seagate ST39140N	Pass	
IBM DCHS34550	Pass	
IBM DNES-309170	Pass	
Seagate ST39140LW	Pass	
Quantum ATLAS IV KN9100LW	Pass	
CD-ROM Model Type	Status	Remark
NEC CDR-1810	Pass	
Panasonic CR-508B	Pass	
Pioneer DR-U24x	Pass	
TEAC CD-532S	Pass	
TOSHIBA XM-3601B	Pass	
CD-RW Model Type	Status	Remark
Nichimen CDR-BP2N	Pass	
MO Model Type	Status	Remark
Fujitsu M2513A	Pass	
TYPE Model Type	Status	Remark
HP SureStore 2000i	Pass	

Modem Adapter

Model Type	Status	Remark
CONEXANT RH56D-PCI	Pass	
NEC SUPER 21 56K DATA/FAX/VOICE MODEM-ASVD	Pass	
PC TEL MR PCB V1.0	Pass	
PC TEL MR PCB V1.2	Pass	
PC TEL PB-5614DME1G	Pass	

Printer

Model Type	Status	Remark
Canon BJC-210s	Pass	
EPSON EPL-5700	Pass	
HP LaserJet 4L	Pass	

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Other Device

Model	Device	Status	Remark
IEEE 1394	Geode CS4210	Pass	
Scanner	EPSON GT-12000 / LTP Port	Pass	
SIR	Iraxis IRB-01	Pass	
	ACTiSys ACT-IR220	Pass	
	ACTiSys ACT-IR2000	Pass	
Joystick	Microsoft SideWinder Force Feedback Pro	Pass	
Game PAD	Microsoft SideWinder game pad	Pass	
USB Game PAD	Philips Free spacer Game Pad	Pass	
USB HUB	Unixtar-UT-USB41	Pass	
USB Keyboard	Chicony USB K/B	Pass	
	BTC-8113W	Pass	
	BTC-HID Compliant Keyboard	Pass	
	Forward USB Keyboard	Pass	
	Microsoft USB Keyboard	Pass	
USB Modem	Leopard Pocket 56K Modem	Pass	
USB Mouse	Microsoft IntelliMouse	Pass	
	Logitech USB Mouse	Pass	
USB Speaker	Philips USB Speaker	Pass	
USB Scanner	HP Scanjet 6250c	Pass	
USB Storage Device	CD-ROM / Extend Box	Pass	
	Floppy / UD376	Pass	
	Hard Disk / Extend Box	Pass	
	IOMEG ZIP 100	Pass	
	LS120 / Supper Disk	Pass	
USB Printer	Lexmark Z51	Pass	

6.5 Software Compatibility Test

Application Software	Publisher	Status	Remark
3D WinBench 2000 V1.0	Ziff-Davis	Pass	
3D Mark 2000 V1.1		Pass	
Adaptec Easy CD Creator 4.02	Adaptec	Pass	
Adobe Photoshop V5.5	Adobe	Pass	
Adobe Acrobat Reader V4.05	Adobe	Pass	
Audio Bench 99 V1.0	Ziff-Davis	Pass	
Final Reality V1.01		Pass	
Intel Bases V1.8		Pass	
InterVideo WinDVD 2000 V2.1	InterVideo	Pass	
Microsoft Office 2000	Microsoft	Pass	
Netscape V6.0	Netscape	Pass	
Norton AntiVirus V4.0	Symantec	Pass	
Norton Ghost V6.5	Symantec	Pass	
Power DVD V2.55	CyberLink	Pass	
WinBench 99 V1.2	Ziff-Davis	Pass	
Winstone 99 V1.3	Ziff-Davis	Pass	
Winstone 2000 V1.0	Ziff-Davis	Pass	
WinRAR V2.71	WinRAR	Pass	
WinTurn98		Pass	
WinZip V8.0	WinZip	Pass	
Xtest Launcher 32 V4.11	Launcher	Pass	

6.6 Stress Test

Test Configuration A

Test Configuration	O.S.: Windows 98SE CPU: Intel FCPGA PIII-700 (100 x 7) Memory: 128MB SDRAM ASMI D6416BB-8 64MB*2 IDE HDD: Western Digital WD84AA IDE CD-ROM: Creative CD820E Graphics Adapter: Creative RIVA TNT2 Ultra Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR		
Test Procedure	Status	Remark	
Windows 99 V1.3	Pass	Demo mode over 4hours	

Test Configuration B

Test Configuration	O.S.: Windows 98SE CPU: Intel FCPGA PIII-700 (100 x 7) Memory: 256MB SDRAM HY57V658020B 0009B TC-10S 128MB*2 IDE HDD: Western Digital WD84AA IDE CD-ROM: AFREEY CD-2056E Graphics Adapter: DIAMOND VIPER V770 ULTRA Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR		
Test Procedure	Status	Remark	
Windows 99 V1.3	Pass	Demo mode over 4hours	

Test Configuration C

Test Configuration	O.S.: Windows 98SE CPU: Intel FCPGA PIII-1.0G (133 x 7.5) Memory: 192MB SDRAM HYUNDAI GM72V66841XT75 64MB*3 IDE HDD: Seagate ST328040A IDE CD-ROM: AFREEY CD-2056E Graphics Adapter: 3DFX Voodoo 3 3000 Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR		
Test Procedure	Status	Remark	
Windows 99 V1.3	Pass	Demo mode over 4hours	

Test Configuration D

Test Configuration	O.S.: Windows 98SE CPU: Intel FCPGA PIII-1.0G (133 x 7.5) Memory: 384MB SDRAM HYUNDAI GM72V66841XT75 128MB*3 IDE HDD: Seagate ST328040A IDE CD-ROM: Acer 50X Graphics Adapter: GIGYBYTE GA-660-32D NVIDIA RIVA TNT2 32MB Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR		
Test Procedure	Status	Remark	
Windows 99 V1.3	Pass	Demo mode over 4hours	

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Test Configuration E

Test Configuration	O.S.: Windows 98SE CPU: Intel FCPGA PIII-1.0G (133 x 7.5) Memory: 384 MB VDRAM NEC D4565821G5-A75-9JF 128MB*3 IDE HDD: Seagate ST39140A IDE CD-ROM: Matsushita CR-586B 32X Graphics Adapter: ASUS 6600 nVidia GeForce 256 Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR		
Test Procedure		Status	Remark
Windows 99 V1.3		Pass	Demo mode over 4hours

7. Environment Test for Windows 2000 / Windows NT4.0

7.1 O.S. Installation

O.S.	Configuration
Windows 2000 Professional Install from CD-ROM	CPU: Intel FCPGA Celeron-667 (66 x 10) Memory: 192MB SDRAM SIEMENS HYB39S64800AT-7.5 64MB*3 IDE HDD: Quantum KA6400AT IDE CD-ROM: LITE-ON LTN-485S Graphics Adapter: GIGYBYTE GA-660-32D NVIDIA RIVA TNT2 32MB Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: Intel 82559 PRO/100+ Management SCSI Adapter: Iwill SIDE-2935UW SCSI Device: Seagate ST39140LW
O.S. Installation	Pass
Driver Installation	Pass
Windows 2000 Server Upgrade from Windows 2000 Professional	CPU: Intel FCPGA PIII-700 (100 x 7.0) Memory: 384MB SDRAM LGS GM72V66841CT7J 128MB*3 IDE HDD: Quantum KA6400AT IDE CD-ROM: LITE-ON LTN-485S Graphics Adapter: ELSA Erazor X nVidia GeForce 256 Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: Realtek RTL8139C Fast Ethernet adapter SCSI Adapter: Adaptec AHA-2930U2 SCSI Device: Quantum ATLAS IV KN9100LW
O.S. Installation	Pass
Driver Installation	Pass
Windows 2000 Advanced Server Install from CD-ROM	CPU: Intel FCPGA PIII-933 (133 x 7.0) Memory: 192MB SDRAM Apacer AM2V648A4N-8 64MB*3 IDE HDD: Quantum KA6400AT IDE CD-ROM: LITE-ON LTN-485S Graphics Adapter: ATI Rage 128 Pro Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: Conexant RH56D-PCI Network Adapter: D-Link DE-500TX SCSI Adapter: Qlogic QLA510-P SCSI Device: Seagate ST39140N
O.S. Installation	Pass
Driver Installation	Pass
Windows NT4.0 Workstation + Service Pack 6.0a Install from CD-ROM	CPU: Intel FCPGA PIII-800 (100 x 8.0) Memory: 256MB SDRAM HYUNDAI GM72V66841ET75 128MB*2 IDE HDD: Maxtor 51024 U2 IDE CD-ROM: MATSHITA DVD-ROM SR-8583B Graphics Adapter: ASUS ASUS V3500 Series Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: Accton EN1207D-TX/WOL SCSI Adapter: Tekram DC-390U3W SCSI Device: IBM DNES-309170
O.S. Installation	Pass
Driver Installation	Pass

Windows NT4.0 Server + Service Pack 6.0a Install from Floppy	CPU: Intel PPGA Celeron-533 (66 x 8.0) Memory: 256MB SDRAM Micron MT48LC8M8A2-8E 128MB*2 IDE HDD: Maxtor 51024 U2 IDE CD-ROM: MATSHITA DVD-ROM SR-8583B Graphics Adapter: 3DFX Voodoo3 3000 Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: 3COM Fast EtherLink 3C905C-TX-M SCSI Adapter: Adaptec AHA-3940 SCSI Device: Seagate ST51080N
O.S. Installation	Pass
Driver Installation	Pass

7.2 Power Management Function Test

Configuration	CPU: Intel FCPGA PIII-933 (133 x 7.0)		
	Memory: 192MB SDRAM Apacer AM2V648A4N-8 64MB*3		
	IDE HDD: Quantum KA6400AT		
	IDE CD-ROM: LITE-ON LTN-485S		
	Graphics Adapter: ATI Rage 128 Pro		
	Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC		
	Modem Adapter: PCTEL HSP56 MR		
	Network Adapter: Intel 82559 PRO/100+ Management		
	SCSI Adapter: Adaptec AHA-2940U/2940UW		
	SCSI Device: Seagate ST39140N		
USB Device: Microsoft Wheel PS/2 mouse / Microsoft USB Keyboard			
Windows 2000 Power Management Function Test			
Suspend mode (S1)	Wake up by	Status	Remark
	Power Button	Pass	
	WOL	Pass	Intel 82559
	USB Device	Pass	Microsoft Wheel PS/2 mouse
	Resume to Windows	Status	Remark
	Audio CD	Pass	
	USB Device	Pass	
	Network	Pass	
Hibernate mode (S4)	Wake up by	Status	Remark
	Power Button	Pass	
	WOL	Pass	Intel 82559
	PME	Pass	Intel 82559
	USB Device	Pass	Microsoft USB Keyboard
	Resume to Windows	Status	Remark
	Audio CD	Pass	
	USB Device	Pass	
Network	Pass		

7.3 General Function Test

Configuration	CPU: Intel FCPGA PIII-933 (133 x 7.0) Memory: 192MB SDRAM Apacer AM2V648A4N-8 64MB*3 IDE HDD: Quantum KA6400AT IDE CD-ROM: LITE-ON LTN-485S Graphics Adapter: ATI Rage 128 Pro Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: Intel 82559 PRO/100+ Management SCSI Adapter: Adaptec AHA-2940U/2940UW SCSI Device: Seagate ST39140N USB Device: Microsoft Wheel PS/2 mouse / Microsoft USB Keyboard
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Test Item	Status	Remark
General Test		
DOS Command	Pass	
Multitask Test	Pass	
Suspend	Pass	
Suspend To RAM	Pass	
Hibernate	Pass	
Network setting	Pass	
Multimedia	Pass	
Play Game	Pass	
Multimedia Test		
Sound	Pass	All formats
Software MPEG	Pass	Windows Media Player
Software DVD	Pass	InterVideo WinDVD
Microphone Record	Pass	
Earphone Function	Pass	
Utility Test		
3D Mark2000 V1.1	Pass	
3D Winbench 2000 V1.1	Pass	
Winbench 99 V1.2	Pass	
Winstone 99 V1.3	Pass	
Winstone Content Creation V1.0	Pass	
Final Reality V1.01	Pass	
HCT 9.501	Pass	
SYSMark 2000 V1.0	Pass	
Xtest Launcher 32 V4.11	Pass	

7.4 Hardware Compatibility Test

IDE Device

Mode	Model	Status	Remark
HDD			
UDMA 2/4	Fujitsu MPA3035AT	Pass	
	Fujitsu MPA3052AT	Pass	
	Fujitsu MPB3021AT	Pass	
	Fujitsu MPB3052AT	Pass	
	Fujitsu MPB3064AT	Pass	
	Fujitsu MPC3032AT	Pass	
	Fujitsu MPC3064AT	Pass	
	Fujitsu MPD3064AT -UW	Pass	
	Fujitsu MPD3084AT -UW	Pass	
	Fujitsu MPE 3084AE	Pass	
	Fujitsu MPE 3102AT	Pass	
	Fujitsu MPE 3102AH-E	Pass	
	Fujitsu MPE 3204AH	Pass	
	IBM DTTA-350430	Pass	
	IBM DTTA-350840	Pass	
	IBM DTTA-351680	Pass	
	IBM DJNA-372200	Pass	
	Maxtor 90576D4	Pass	
	Maxtor 91152D8	Pass	
	Maxtor Diamond MAX VL17 90871 U2	Pass	
	Maxtor Diamond MAX VL20 91021 U2	Pass	
	Maxtor Diamond MAX VL20 91531 U3	Pass	
	Quantum CR4300	Pass	
	Quantum Fireball CX6.4GB	Pass	
	Quantum KA6400AT (KA06A011)	Pass	

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	Quantum KA9100AT (KA09A881)	Pass	
	Quantum Fireball CX 6.4GB CX6400AT	Pass	
	Samsung SV2044D	Pass	
	Samsung SV1022D	Pass	
	Samsung SV0432A	Pass	
	Samsung SV0432D	Pass	
	Samsung SV0431D	Pass	
	Samsung SV0842D	Pass	
	Seagate ST32112A	Pass	
	Seagate ST34313A	Pass	
	Seagate ST34311A	Pass	
	Seagate ST34313A (U8)	Pass	
	Seagate ST34321A	Pass	
	Seagate ST38410A 3.20	Pass	
	Seagate ST38410A 3.03	Pass	
	Seagate ST38421A	Pass	
	Seagate ST39140A	Pass	
	Seagate ST310212A (U10)	Pass	
	Seagate ST315323A (U10)	Pass	
	Seagate ST313620A	Pass	
	Seagate ST320430A3.11	Pass	
	Seagate ST328040A (Barracuda)	Pass	
	Western Digital WD Caviar 34000	Pass	
	Western Digital WD43100	Pass	
	Western Digital WD Caviar 36400	Pass	
	Western Digital WD Caviar AC28400	Pass	
	Western Digital WD Caviar AC313000	Pass	
	Western Digital WD Caviar 84AA	Pass	
CD-ROM			
32X	Aopen CD-932E/AKU	Pass	
	Matsushita CR-586	Pass	
	NEC CDR-1900 32X CD-ROM	Pass	
	SONY CDU-711-80	Pass	
	SONY CDU-711 32X CD-ROM	Pass	
	TEAC CD-532E	Pass	
34X	ASUS CD-S340	Pass	
36X	AOPEN CD-936E/AKU	Pass	
	ECS 3600	Pass	
40X	AOPEN CD-940E/AKU	Pass	
	ASUS CD-S400	Pass	
	BTC 40HX	Pass	
	TAC CD540E	Pass	
44X	BTC 44HX	Pass	
	BTC BCD 48X	Pass	
48X	LITE-ON LTN-485S	Pass	
50X	Acer 50X	Pass	
	ACTIMA A50T	Pass	
	BTC BCD 50X	Pass	
52X	BTC 52HX	Pass	
	BTC BCD F560D	Pass	
56X	AFEEY CD-2056E	Pass	
	BTC BCD 560A (56X 48SB)	Pass	
CD-RW	PLEXTOR PX-W8432Ti	Pass	
	SONY	Pass	
	Yamaha CRW4001t	Pass	

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DVD	ASUS 6X max DVD-E606	Pass	
	AFREY DD-4008E (8X DVD-ROM)	Pass	
	AOPEN DVD-1040 PRO 10X DVD	Pass	
	Creative Encore DXr2	Pass	
	CyberDrive 5X DVD-ROM DM822D	Pass	
	DVT1 SR-8585-BXX	Pass	
	Hitachi GD-2000	Pass	
	Panasonic SR-8174-BXX	Pass	
	Panasonic SR-8583-B	Pass	
	Panasonic LK-RV8581T	Pass	
	Pioneer DVD-102	Pass	
	Sony DDU220E	Pass	
	TUV SR-8583-B	Pass	
ZIP	Iomega Z100 ATAPI ZIP	Pass	
LS-120	Mitsubishi MF357G-2111MAL	Pass	

Graphics Adapter

Model Type	Status	Remark
ATI Rage 128 GL Xpert128	Pass	
ATI Rage 128 VR 8MB	Pass	
ATI Rage 128 PRO 32MB	Pass	
ASUS AGP-V2740	Pass	
ASUS AGP-V3400TNT 8MB	Pass	
ASUS AGP-V3500 32MB	Pass	
ASUS AGP-V3800 TNT2 32MB	Pass	
ASUS V6600 GeForce 256	Pass	
ASUS AGP-V385GX2	Pass	
APAC S3 Savage 3D 8MB	Pass	
CREATIVE 3D BLASTER GeForce Pro 32MB DDR	Pass	
CREATIVE 3D BLASTER TNT2 Ultra 32MB	Pass	
Diamond Fire GL 1000 Pro	Pass	
Diamond Viper V770 TNT2	Pass	
ELSA ERAZOR X GeForce 256	Pass	
ELSA ERAZOR III LT-16 TNT2 VANTA 16MB	Pass	
ELSA GLADIAC MX GeForce2 MX 32MB	Pass	
ENNYAH Trident BLADE 3D 9880	Pass	
FASTWARE S3 Savage 4 GT 16MB	Pass	
Gainward S3 Savage4 Pro 32MB	Pass	
GIGABYTE GA-660-32D TNT2 32MB	Pass	
HMCC TNT2 M64 32MB	Pass	
HMCC S3 Savage4 Pro 32MB	Pass	
Matrox Productiva G100	Pass	
Matrox Mystique G200	Pass	
Matrox Millennium G400 DH	Pass	
MSI 8806 TNT2 32MB	Pass	
Sparkle TNT2 VANTA 8MB	Pass	
Voodoo 3 –3000 16MB	Pass	
Voodoo 5 – 5500 32MB	Pass	
WinFast 3D S320II TNT2 Ultra	Pass	
WinFast 3D S320V TNT2 VANTA 8MB	Pass	
WinFast 3D S325 TNT2 M64	Pass	
WinFast Geforce2 GTS 32MB DDRSGRAM	Pass	

Network Adapter

Model Type	Status	Remark
3COM 3C900-COMBO	Pass	
3COM Fast EtherLink 3C905B-TX	Pass	
3COM Fast EtherLink 3C905C-TX	Pass	
Accton EN9100TX	Pass	
Accton EN1207D-TX/WOL	Pass	
Accton EN1207D-TX5	Pass	
CNET PRO-120	Pass	
D-Link DFE-500TX	Pass	
D-Link DE-530CT	Pass	
Intel 82558 PRO/100+ Management	Pass	
Intel 82559 PRO/100+ Management	Pass	
Olicom 2325 10/100	Pass	
Realtek RTL8139A Fast Ethernet adapter	Pass	
Realtek RTL8139B Fast Ethernet adapter	Pass	
Realtek RTL8139C Fast Ethernet adapter	Pass	
SiS 900 Fast Ethernet adapter	Pass	
SMC 9334BDT EtherPower 10/100 Dual Channel	Pass	

SCSI Adapter

Model Type	Status	Remark
Adaptec AHA-2940/2940U	Pass	Adaptec AIC 7870P
Adaptec AHA-2940U/2940UW	Pass	Adaptec AIC 7880P
Adaptec AHA-2940U2W	Pass	Adaptec AIC-7890AB
Adaptec AHA-3940	Pass	Adaptec AIC-7870P
Adaptec AHA-3940AUW	Pass	Adaptec AIC-7895P
Adaptec AHA-2930U2	Pass	Adaptec AIC-7890AB
Iwill SIDE-2935UW	Pass	initio INIC-950P
Qlogic QLA510-P	Pass	Qlogic ISP1020
Tekram DC-390	Pass	AMD AM53C974AKC
Tekram DC-390F	Pass	SYMBIOS LOGIC 53C875
Tekram DC-390U3W	Pass	

SCSI Device

HDD Model Type	Status	Remark
CONNER CFP1080S	Pass	
MICROPOLIS 4110	Pass	
Seagate ST51080N	Pass	
Seagate ST39140N	Pass	
IBM DCHS34550	Pass	
IBM DNES-309170	Pass	
Seagate ST39140LW	Pass	
Quantum ATLAS IV KN9100LW	Pass	
CD-ROM Model Type	Status	Remark
NEC CDR-1810	Pass	
Panasonic CR-508B	Pass	
Pioneer DR-U24x	Pass	
TEAC CD-532S	Pass	
TOSHIBA XM-3601B	Pass	
CD-RW Model Type	Status	Remark
Nichimen CDR-BP2N	Pass	
MO Model Type	Status	Remark
Fujitsu M2513A	Pass	

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TYPE Model Type	Status	Remark
HP SureStore 2000i	Pass	

Modem Adapter

Model Type	Status	Remark
CONEXANT RH56D-PCI	Pass	
NEC SUPER 21 56K DATA/FAX/VOICE MODEM-ASVD	Pass	
PC TEL MR PCB V1.0	Pass	
PC TEL MR PCB V1.2	Pass	
PC TEL PB-5614DME1G	Pass	

Printer

Model Type	Status	Remark
Canon BJC-210s	Pass	
EPSON EPL-5700	Pass	
HP LaserJet 4L	Pass	

Other Device

Model	Device	Status	Remark
IEEE 1394	Geode CS4210	Pass	
Scanner	EPSON GT-12000 / LTP Port	Pass	
SIR	Iraxis IRB-01	Pass	
	ACTiSys ACT-IR220	Pass	
	ACTiSys ACT-IR2000	Pass	
Joystick	Microsoft SideWinder Force Feedback Pro	Pass	
Game PAD	Microsoft SideWinder game pad	Pass	
USB Game PAD	Philips Free spacer Game Pad	Pass	
USB HUB	Unixtar-UT-USB41	Pass	
USB Keyboard	Chicony USB K/B	Pass	
	BTC-8113W	Pass	
	BTC-HID Compliant Keyboard	Pass	
	Forward USB Keyboard	Pass	
	Microsoft USB Keyboard	Pass	
USB Modem	Leopard Pocket 56K Modem	Pass	
USB Mouse	Microsoft IntelliMouse	Pass	
	Logitech USB Mouse	Pass	
USB Speaker	Philips USB Speaker	Pass	
USB Scanner	HP Scanjet 6250c	Pass	
USB Storage Device	CD-ROM / Extend Box	Pass	
	Floppy / UD376	Pass	
	Hard Disk / Extend Box	Pass	
	IOMEG ZIP 100	Pass	
	LS120 / Supper Disk	Pass	
USB Printer	Lexmark Z51	Pass	

7.5 Software Compatibility Test

Application Software	Publisher	Status	Remark
3D WinBench 2000 V1.0	Ziff-Davis	Pass	
3D Mark 2000 V1.1		Pass	
Adaptec Easy CD Creator 4.02	Adaptec	Pass	
Adobe Photoshop V5.5	Adobe	Pass	

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Adobe Acrobat Reader V4.05	Adobe	Pass	
Audio Bench 99 V1.0	Ziff-Davis	Pass	
Final Reality V1.01		Pass	
Intel Bases V1.8		Pass	
InterVideo WinDVD 2000 V2.1	InterVideo	Pass	
Microsoft Office 2000	Microsoft	Pass	
Netscape V6.0	Netscape	Pass	
Norton AntiVirus V4.0	Symantec	Pass	
Norton Ghost V6.5	Symantec	Pass	
Power DVD V2.55	CyberLink	Pass	
WinBench 99 V1.2	Ziff-Davis	Pass	
Winstone 99 V1.3	Ziff-Davis	Pass	
Winstone 2000 V1.0	Ziff-Davis	Pass	
WinRAR V2.71	WinRAR	Pass	
WinTurn98		Pass	
WinZip V8.0	WinZip	Pass	
Xtest Launcher 32 V4.11	Launcher	Pass	

7.6 Stress Test

Test Configuration A

Test Configuration	O.S.: Windows 2000 Professional CPU: Intel FCPGA PIII-850 (100 x 8.5) Memory: 128MB SDRAM Hitachi HM5264805TT860 128MB*1 IDE HDD: Fujitsu MPB3052AT IDE CD-ROM: Creative CD820E Graphics Adapter: Creative RIVA TNT2 Ultra Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: D-Link DE-500TX SCSI Adapter: Adaptec AHA-2940UW SCSI Device: Seagate ST39140N		
Test Procedure	Status	Remark	
Windows 99 V1.3	Pass		
Windows 2000	Pass		
HCT V9.5 System Stress	Pass		
SYS Mark2000 V1.0	Pass		
Xtest32	Pass		

Test Configuration B

Test Configuration	O.S.: Windows 2000 Professional CPU: Intel FCPGA Celeron-600 (66 x 9.0) Memory: 256MB SDRAM Micron MT48LC8M8A2-8 128MB*2 IDE HDD: Fujitsu MPD3064AT-UW IDE CD-ROM: AFREEY CD-2056E Graphics Adapter: DIAMOND VIPER V770 ULTRA Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: 3COM 3C905B-TX SCSI Adapter: Tekram DC-390F SCSI Device: Micropolis 4110		
Test Procedure	Status	Remark	
Windows 99 V1.3	Pass		
Windows 2000	Pass		
HCT V9.5 System Stress	Pass		
SYS Mark2000 V1.0	Pass		

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Xtest32	Pass	
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Test Configuration C

Test Configuration	O.S.: Windows 2000 Professional CPU: Intel FCPGA PIII-700 (100 x 7.0) Memory: 192MB SDRAM SIEMENS HYB39S64800AT-7.5 64MB*3 IDE HDD: Maxtor 51024 U2 IDE CD-ROM: AFREY CD-2056E Graphics Adapter: 3DFX Voodoo 3 3000 Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: 3COM Fast EtherLink 3C905C-TX SCSI Adapter: Adaptec AHA-3940 / Qlogic QLA510-P SCSI Device: Quantum ATLAS IV KN09L011 / Seagate ST51080N	
Test Procedure	Status	Remark
Windows 99 V1.3	Pass	
Windows 2000	Pass	
HCT V9.5 System Stress	Pass	
SYS Mark2000 V1.0	Pass	
Xtest32	Pass	

Test Configuration D

Test Configuration	O.S.: Windows 2000 Professional CPU: Intel FCPGA PIII-550 (100 x 5.5) Memory: 128MB SDRAM NEC D4564841G5-A10-9JF 128MB*1 IDE HDD: WD Caviar 84AA IDE CD-ROM: Acer 50X Graphics Adapter: GIGYBYTE GA-660-32D NVIDIA RIVA TNT2 32MB Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: D-Link DFE-500TX SCSI Adapter: Iwill SIDE-2935UW SCSI Device: Seagate ST39140LW	
Test Procedure	Status	Remark
Windows 99 V1.3	Pass	
Windows 2000	Pass	
HCT V9.5 System Stress	Pass	
SYS Mark2000 V1.0	Pass	
Xtest32	Pass	

Test Configuration E

Test Configuration	O.S.: Windows NT4.0 Workgroup CPU: Intel FCPGA PIII-1.0G (133 x 9.5) Memory: 192 MB SDRAM HYUNDAI GM72V66841XT75 64MB*3 IDE HDD: Seagate ST39140A IDE CD-ROM: Matsushita CR-586B 32X Graphics Adapter: ASUS 6600 nVidia GeForce 256 Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Modem Adapter: PCTEL HSP56 MR Network Adapter: Olicom 2325 10/100 SCSI Adapter: Tekram DC-390F SCSI Device: Micropolis 4110 / Toshiba XM-3601B	
Test Procedure	Status	Remark
Windows 99 V1.3	Pass	
Windows 2000	Pass	
HCT V9.5 System Stress	Pass	

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SYS Mark2000 V1.0	Pass	
Xtest32	Pass	

8. Environment Test for Novell NetWare

8.1 Novell Server Install

Test Configuration	O.S.: Novell 4.11 Server CPU: Intel FCPGA PIII-667 (133 x 5.0) Memory: 192 MB SDRAM Apacer AM2V64164A1T8A 64MB*3 IDE HDD: Quantum BF CY4335AT (PIO Mode 4) IDE CD-ROM: Toshiba XM-6202B 32X Graphics Adapter: GIGYBYTE GA-660-32D NVIDIA RIVA TNT2 32MB Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Network Adapter: Realtek RTL8139C 3COM 3C905C-TX-M Intel 82559 SCSI Adapter: Adaptec AHA-2940UW SCSI Device: Quantum XP32180SW
Test Procedure	Status
O.S Installation	Pass
NWtest	Pass

8.2 WorkStation Burn-in

Test Configuration	O.S.: DOS 6.22 CPU: Intel FCPGA PIII-667 (133 x 5.0) Memory: 192 MB SDRAM Apacer AM2V64164A1T8A 64MB*3 IDE HDD: Quantum BF CY4335AT (PIO Mode 4) IDE CD-ROM: Toshiba XM-6202B 32X Graphics Adapter: GIGYBYTE GA-660-32D NVIDIA RIVA TNT2 32MB Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Network Adapter: Realtek RTL8139C SCSI Adapter: Adaptec AHA-2940UW SCSI Device: Quantum XP32180SW
Test Procedure	Status
O.S Installation	Pass
NWtest	Pass
Test Configuration	O.S.: Windows 98SE CPU: Intel FCPGA PIII-667 (133 x 5.0) Memory: 192 MB SDRAM Apacer AM2V64164A1T8A 64MB*3 IDE HDD: Quantum BF CY4335AT (PIO Mode 4) IDE CD-ROM: Toshiba XM-6202B 32X Graphics Adapter: GIGYBYTE GA-660-32D NVIDIA RIVA TNT2 32MB Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Network Adapter: Intel 82559 SCSI Adapter: Adaptec AHA-2940UW SCSI Device: Quantum XP32180SW
Test Procedure	Status
O.S Installation	Pass
NWtest	Pass

8.3 General Function Test

Test Item	Status	Remark
General Test		
Users Login	Pass	Login from DOS clients
BootRom Remote Boot	Pass	
Remote Control	Pass	

9. Environment Test for Unix Operating System

9.1 O.S. Installation

SCO OPEN Server Version: 5.0.4 SMP	CPU: Intel FCPGA Celeron-667 (66 x 10) Memory: 64MB SDRAM SEC KM48S8030AT-G10 64MB*1 IDE HDD: Western Digital WD Caviar 84AA Graphics Adapter: ATI Mach 64 SCSI Adapter: Adapter AHA-2940 SCSI Device: Pioneer DR-U24X
O.S. Installation	Pass
Driver Installation	Pass
SUN Solaris Version: 2.5.1	CPU: Intel FCPGA PIII-650 (100 x 6.5) Memory: 192MB SDRAM LGS GM72V66841CT7J 64MB*3 IDE HDD: Samsung WN32543A IDE CDROM: ECS 3600 Graphics Adapter: ECS VI-942
O.S. Installation	Pass
Driver Installation	Pass
SUN Solaris Version: 2.5.1	CPU: Intel FCPGA Celeron-566 (66 x 8.5) Memory: 64MB SDRAM XTRON XSV464P4A0-08 32MB*2 IDE HDD: Maxtor 82560A4 IDE CDROM: Aopen 36X LAN Adapter: 3COM – 3C905B-TX Graphics Adapter: ATI Mach64 VT
O.S. Installation	Pass
Driver Installation	Pass
SUN Solaris Version: 2.5.1	CPU: Intel FCPGA Celeron-866 (133 x 6.5) Memory: 64MB SDRAM NEC D4564163G5-A10B-94F 32MB*2 IDE HDD: Maxtor 82560A4 IDE CDROM: BTC 40X Audio Adapter: On-board Sound Realtek ALC100P AC'97 Audio CODEC Graphics Adapter: ECS VI-942 (S3 Trio64V+)
O.S. Installation	Pass
Driver Installation	Pass
FreeBSD Version: 3.0 Release	CPU: Intel FCPGA Celeron-600 (133 x 4.5) Memory: 128MB SDRAM SEC KM48S8030CT-GL 64MB*2 IDE HDD: Maxtor 82560A4 IDE CDROM: LITE ON 48X LAN Adapter: Intel 82559 Graphics Adapter: ATI Mach 64
O.S. Installation	Pass
Driver Installation	Pass

9.2 General Function Test

Test Item	Status	Remark
General Test		
Format A:	Pass	
Multitask Test	Pass	Run loops with Banner, Calendar, clock command and transfer files from network

9.3 Graphics Adapter

Interface	Model	Status	Graphic Chip Set
PCI	ATI mach64	Pass	ATI mach64 210888GX00
	ATI mach64 VT	Pass	ATI mach64 215VT22200
	ECS VI-942	Pass	S3 Trio64V+ 765
	ECS VI-942	Pass	S3 Trio64V+ 765

9.4 IDE Adapter

Mode	Model	Status	Remark
HDD			
Mode 4	Maxtor 82560A4	Pass	
	Samsung WN32543A	Pass	
	Seagate ST36450A	Pass	
UDMA2	IBM DHEA 36480	Pass	
	Maxtor 84320D5	Pass	
	Quantum Fireball ST1.6A	Pass	
	Samsung VG33402A	Pass	
	WD Caviar 22500	Pass	
CD-ROM			
12X	ECS 12X TTD	Pass	
	NEC CDR1400C	Pass	
36X	ECS 3600	Pass	
	Aopen 36X	Pass	
40X	BTC 40X	Pass	
	ASUS 40X	Pass	

9.5 Printer

Model Type	Status	Remark
Canon BJC-210s	Pass	

9.6 Network Adapter

Model Type	Status	Remark
3COM Fast EtherLink 3C905B-TX	Pass	
3COM Fast EtherLink 3C905C-TX	Pass	
Accton EN1207DL	Pass	
D-Link DFE-500TX	Pass	
D-Link DE-530CT	Pass	
Intel 82559 PRO/100+ Management	Pass	
SMC 8432BT	Pass	

9.7 SCSI Device

HDD Model Type	Status	Remark
Fujitsu M2684SAU	Pass	
Seagate ST51080N	Pass	
Quantum XP31250S	Pass	
IBM DCHS34550	Pass	
Seagate ST19171W	Pass	
CD-ROM Model Type	Status	Remark
NEC CDR-1810	Pass	
Pioneer DR-U12X	Pass	
TEAC CD-532S	Pass	

10. Memory QVL

Configuration		Operating System	Windows 98SE		
		Test Program	Winstone 99 v1.3 over 4 hours		
PC100					
Memory Size	Vendor	Brand	Part Number	Status	Remark
32MB	Apacer	Apacer	AM2V168A1T8	Pass	
	Apacer	LGS	GM72V661641CT7J	Pass	
	AM1	AM1	10641611A-8A	Pass	
		EliteMT	M12L64164A-8	Pass	
		HYUNDAI	HY57V651620B TC-10S	Pass	
	TwinMos	M.tec	FTS6416B4E-7	Pass	
	MOSEL	MOSEL	V54C365164VBT8PC	Pass	
	RamStar	SEITEC	M56V6800D-8	Pass	
64MB	Apacer	Apacer	AM2V648A4N-B	Pass	
		ASM1	D6416BB-8	Pass	
		EliteMT	M12L64164A B3M40-BA -8T	Pass	
	BUFFALO	Fujitsu	81F64842B-103FN	Pass	
	Ramstar	LGS	GM72V66841CT7J	Pass	
	WIN	LGS	GM72V66841ET75	Pass	
	BUFFALO	SEC	KM48S8030CT-GL	Pass	
	TwinMOS	HYUNDAI	GM72V66841XT75	Pass	
		HYUNDAI	HY57V658020B TC-10S	Pass	
	Ramstar	SEC	KM48S8030CT-GL	Pass	
	SEC	SEC	KM48S8030CT-GL	Pass	
	MOSEL	MOSEL	V54C365804VCT8PC	Fail*	14 loop / 3 hrs *Refer Q6
	M.tec	M.tec	TBS6416B4E-7	Pass	
	NEC	NEC (VCM)	D4565821G5-A75-9JF	Pass	
		Micron	MT48LC8M16A2-75B	Pass	
	RamStar	Micron	MT48LC8M8A2-8E B	Pass	
		M.tec	54C365164VBT7	Pass	
	Apacer	Siemens	HYB395S64800AT-7.5	Pass	
128MB	Apacer	Apacer	AM2V648A4N-B	Pass	
	Apacer	IBM	0364804CT3C 75A	Pass	
	ARMAS	NEC	D4564841G5-A75-9JF	Pass	
	KINGMAX	KINGMAX	KSV884T4A1A-07	Pass	
	Apacer	LGS	GM72V661641CT7J	Pass	
	WIN	LGS	GM72V66841ET75	Pass	
	MOSEL	MOSEL	V54C365804V8T75	Pass	
	Ramstar	Micron	MT48LC8M8A2-8	Pass	
	Ramstar	NEC	D4564163G5-A80-9JF	Pass	
	NEC	NEC	D4565821G5-A75-9JF	Pass	
	Ramstar	SEC	KM48S16030T-GL	Fail*	12 loop / 2.5hrs *Refer Q6
	Micron	Micron	MT 48LC16M8A2-75 B	Pass	
	PC133				
Memory Size	Vendor	Brand	Part Number	Status	Remark
64MB	Apacer	SIEMENS	HYB39S64800AT-75	Pass	PC133
	ARMAS	NEC	D4564841G5-A75-9JF	Pass	PC133
	BUFFALO	NEC (SDRAM)	D4564841G5-A75-9JF	Pass	PC133 CL3
	KINGMAX	KINGMAX	KSV884T4A1A-07	Pass	PC133
	NEC	NEC (VCM)	D4565821G5-A75-9JF	Pass	VC133
	NEC	NEC (VCM)	D4565821G5-A75-9JF	Pass	VC133
	Micron	Micron	MT48LC8M16A2-75B	Pass	PC133 8Mx16
	TwinMOS	TwinMOS	TBS6408B4E-6	Pass	PC133
128MB	Apacer	IBM (HYUNDAI)	0364804CT3C 75A	Pass	PC133
	ARMAS	NEC	D4564841G5-A75-9JF	Pass	PC133 8Mx8

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		HYUNDAI	GM72V66841XT75	Pass	PC133 8Mx8
	Infineon	Infineon	HYB39S64800CT-7.5	Pass	PC133 CL3 16Mx64
	Mosel	Mosel	V54C365804VBT75	Pass	PC133 8Mx8 ECC
	NEC	NEC (VCM)	D4565821G5-A75-9JF	Pass	VC133
	PB	NANYA	NT56V6610C0T-75S	Pass	PC133 8Mx8
		SEITEC	PM72V66841CT-6	Pass	PC133
	TwinMOS	TwinMOS	TBS6408B4E-6	Pass	PC133 8Mx8
	V-TEC	HYUNDAI	GM72V66841ET75-AG5	Pass	PC133

11. AGP Device QVL

Test Configuration					
BIOS:	Intel FCPGA PIII-667 (133 x 5.0)				
CPU:	1.0 (8/10/2000)				
Memory	256MB SDRAM Micron MT 48LC16M8A2-75 B 256MB*1				
IDE HDD:	Maxtor 90871 U2				
IDE CD-ROM:	TEAC CD-540E				
Audio Adapter:	On-board Sound Realtek ALC100P AC'97 Audio CODEC				
Driver:	VIA 4 in 1 - 4.24 (AGP Turbo Mode)				
AGP Card	Driver Version	Windows 98 Second Edition			Remark
		Final Reality 1.01	3D Winbench2000 V1.0	3DMark 2000 V1.1	
ASUS AGP-V3500 S3 Savage4 Pro 32MB (4X)	4.12.01.8218-8.20.22 (S3)	Pass	Pass	Pass	
ASUS AGP-V6600 GeForce 256 32MB SGRAM (4X)	4.12.01.0375 (nVidia)	Pass	Pass	Pass	
	4.12.01.0618 (nVidia)	Pass	Pass	Pass	Detect 2X (#1)
ATI Rage 128 PRO 32MB SGRAM (4X)	4.12.6269 4.12.6281	*Fail	*Fail	*Fail	Random can't enter win98se, black screen (#2)
	4.12.6278	Pass	Pass	Pass	
CREATIVE 3D BLASTER GeForce 256 32MB DDR SGRAM (4X)	4.12.01.2204.02.0353 (Creative)	Pass	Pass	Pass	
CREATIVE 3D BLASTER Savage4 32MB (4X)	4.12.01.8218-8.20.22 (S3)	Pass	Pass	Pass	
Diamond Viper V770 TNT2 32MB (4X)	4.12.01.0375 (nVidia)	Pass	Pass	Pass	
ELSA ERAZOR III LT-16 TNT2 VANTA 16MB (4X)	4.12.01.0375 (nVidia)	Pass	Pass	Pass	
ELSA ERAZOR X GeForce 256 32MB (4X)	4.12.01.0206-0050 (ELSA)	Pass	Pass	Pass	
ELSA GLADIAC MX GeForce2 MX 32MB (4X)	4.12.01.0618 (nVidia)	Pass	Pass	Pass	Detect 2X (#1)
FASTWARE S3 Savage 4 GT 16MB (4X)	4.12.01.8218-8.20.22 (S3)	Pass	Pass	Pass	
Gainward S3 Savage4 Pro 32MB (4X)	4.12.01.8218-8.20.22 (S3)	Pass	Pass	Pass	
GIGABYTE GA-660-32D TNT2 32MB (4X)	4.12.01.0375 (nVidia)	Pass	Pass	Pass	
HMCC S3 Savage4 Pro 32MB (4X)	4.12.01.8218-8.20.22 (S3)	Pass	Pass	Pass	
HMCC TNT2 M64 32MB (4X)	4.12.01.0375 (nVidia)	*Fail (#6)	Pass	Pass	Run test program hang
	4.12.01.0618 (nVidia)	Pass	Pass	Pass	Detect 2X (#1)
Leadtek WinFast 3D S325 TNT2 M64 32MB (4X)	4.12.01.0375 (nVidia)	Pass	Pass	Pass	
Leadtek WinFast Geforce2 GTS 32MB DDR SGRAM (4X)	4.12.01.0618 (nVidia)	Pass	Pass	Pass	Detect 2X (#1)
Matrox Millennium G400 DH 32MB SGRAM (4X)	4.12.01.1520	*Fail	*Fail	*Fail	Can't enter Win98SE (#4)
	4.11.01.1250	Pass	Pass	Pass	Detect 1X

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MSI 8806 TNT2 32MB (4X)	4.12.01.0377 (MSI)	Pass	Pass	Pass	
	4.12.01.0618 (nVidia)	Pass	Pass	Pass	Detect 2X (#1)
APAC S3 Savage 3D 8MB SGRAM (2X)	4.11.01.4005-6.13.28	Pass	*Fail	*Fail	Run test program hang. (#5)
ATI Rage 128 GL Xpert128 16MB (2X)	4.12.6278	Pass	Pass	Pass	
ATI Rage 128 VR 8MB (2X)	4.12.6281	Pass	Pass	Pass	
ASUS AGP-V2740 8MB (2X)	4.10.01.1610-980410 (ASUS)	Pass	Pass	Pass	
ASUS AGP-V3400 TNT 8MB SGRAM (2X)	4.11.01.0191 (ASUS)	Pass	Pass	Pass	
ASUS AGP-V3800 TNT2 32MB SGRAM (2X)	4.12.01.0618 (nVidia)	Pass	Pass	Pass	
ECS 3D Vision-6326 4MB (2X)	4.11.01.1280	Pass	*Pass	Pass	* Graphics abnormal
ENNYAH Trident BLADE 3D 9880 8MB (2X)	4.12.01.2219	*Fail	*Fail	*Fail	* Test program hang. (#5) ** Detect (1X) (#7)
Leadtek WinFast 3D S320II TNT2 Ultra 32MB SGRAM (2X)	4.12.01.0618 (nVidia)	Pass	Pass	Pass	
Leadtek WinFast 3D S320V TNT2 VANTA 8MB (2X)	4.12.01.0618 (nVidia)	Pass	*Pass (#3)	Pass	* Ignore 3D Quality (52/69) Fail can pass test.
Matrox Mystique G200 8MB SGRAM (2X)	4.11.01.2520	*Fail	*Fail	*Fail	Run test program system crash. (#5)
	4.11.01.2410	Pass	Pass	Pass	Detect (1X)
Sparkle TNT2 VANTA 8MB (2X)	4.12.01.0618 (nVidia)	Pass	*Pass (#3)	Pass	* Ignore 3D Quality (52/69) Fail can pass test.
Voodoo 3 –3000 16MB (2X)	4.12.01.1225	Pass	Pass	Pass	
Voodoo 5 – 5500 64MB (2X)	4.12.01.0584	Pass	Pass	Pass	
ASUS AGP-V385GX2 4MB SGRAM (1X)	4.10.01.2122-3.42.02 (S3)	Pass	No Result (Need new driver)	*Pass	* Graphics abnormal
Diamond Fire GL 1000 Pro 8MB SGRAM (1X)	4.10.01.2359 (Diamond)	Pass	*Pass	*Pass	*Graphics abnormal
Matrox Productiva G100 8MB (1X)	4.10.01.4110	Pass	No Result (Need new driver)	*Pass	* Graphics abnormal
ECS 3D Vision-985 Trident 9850 4MB SGRAM (1X)	4.10.01.2163(Trident)	*Fail	3D Quality (29/69) Fail (Need new driver)	*Fail	* Run test program hang.
ECS 3D Vision-SAGP RIVA128 4MB (1X)	4.11.01.0337 (nVidia)	Pass	Pass	Pass	

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AGP Card	Driver Version	Windows 2000 Professional			Remark
		Final Reality 1.01	3D Winbench2000 V1.0	3DMark 2000 V1.1	
ASUS AGP-V3500 S3 Savage4 Pro 32MB (4X)	5.12.01.8006-8.30.23 (S3)	Pass	3D Quality (61/69) Texture Swapping hang	(8/22) Fail (3DMark Error)	(#3)
ASUS AGP-V6600 GeForce 256 32MB SGRAM (4X)	5.00.2195.0379(ASUS)	Pass	Pass	Pass	
	5.12.01.0618 (nVidia)	Pass	Pass	Pass	Detect 2X (#1)
ATI Rage 128 PRO 32MB SGRAM (4X)	5.0.124	Pass	Pass	Pass	Detect 2X (#1)
CREATIVE 3D BLASTER GeForce 256 32MB DDR SGRAM (4X)	5.00.2169.0375 (nVidia)	Pass	Pass	Pass	
CREATIVE 3D BLASTER Savage4 32MB (4X)	5.12.01.8006-8.30.23 (S3)	Pass	3D Quality (61/69) Texture Swapping hang	(8/22) Fail (3DMark Error)	(#3)
Diamond Viper V770 TNT2 32MB (4X)	5.00.2169.0375 (nVidia)	Pass	Pass	Pass	
ELSA ERAZOR III LT-16 TNT2 VANTA 16MB (4X)	5.00.2169.0375 (nVidia)	Pass	Pass	Pass	
ELSA ERAZOR X GeForce 256 32MB (4X)	5.00.2169.0375 (nVidia)	Pass	Pass	Pass	
ELSA GLADIAC MX GeForce2 MX 32MB (4X)	5.12.01.0618 (nVidia)	Pass	Pass	Pass	Detect 2X (#1)
FASTWARE S3 Savage 4 GT 16MB (4X)	5.12.01.8010-8.40.01 (S3)	Pass	3D Quality (61/69) Texture Swapping hang	Pass	(#3)
Gainward S3 Savage4 Pro 32MB (4X)	5.12.01.8010-8.40.01 (S3)	Pass	3D Quality (61/69) Texture Swapping hang	Pass	(#3)
GIGABYTE GA-660-32D TNT2 32MB (4X)	5.00.2169.0375 (nVidia)	Pass	Pass	Pass	
HMCC S3 Savage4 Pro 32MB (4X)	5.12.01.8010-8.40.01 (S3)	Pass	Pass	Pass	
HMCC TNT2 M64 32MB (4X)	5.00.2169.0375(nVidia)	*Fail (#6)	Pass	Pass	Run test program hang
	5.12.01.0618 (nVidia)	*Fail (#6)	Pass	Pass	Detect 2X (#1)
Leadtek WinFast 3D S325 TNT2 M64 32MB (4X)	5.00.2169.0375(nVidia)	Pass	Pass	Pass	
Leadtek WinFast Geforce2 GTS 32MB DDR SGRAM (4X)	5.12.01.0618 (nVidia)	Pass	Pass	Pass	Detect 2X (#1)
MSI 8806 TNT2 32MB (4X)	5.00.2169.0364 (MSI)	Pass	Pass	Pass	
	5.12.01.0618 (nVidia)	Pass	Pass	Pass	Detect 2X (#1)
APAC S3 Savage 3D 8MB SGRAM (2X)	5.01.620.0006	*Pass	*Pass	Can't Run	*Software 3D, no new driver to verify. (#8)
ATI Rage 128 GL Xpert128 16MB (2X)	5.0.124	Pass	Pass	Pass	
ATI Rage 128 VR 8MB (2X)	5.0.115	Pass	Pass	Pass	
	5.0.124	Pass	Pass	Fail	3DMark Error
ASUS AGP-V2740 8MB (2X)	5.1.00.1404 (Intel)	Pass	3D Quality (55/69) Fail	Fail (3DMark Error)	(#3)

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ASUS AGP-V3400 TNT 8MB SGRAM (2X)	5.12.01.0618 (nVidia)	Pass	*Pass (#3)	Pass	* Ignore 3D Quality (52/69) Stencil Buffer Fail
ASUS AGP-V3800 TNT2 32MB SGRAM (2X)	5.12.01.0618 (nVidia)	Pass	Pass	Pass	
ECS 3D Vision-6326 4MB (2X)	4.11.01.1300 (Win2K)	Pass	Pass	Pass	
ENNYAH Trident BLADE 3D 9880 8MB (2X)	5.00.2195.0053	Pass	Pass	Pass	Detect 1X (#7)
Leadtek WinFast 3D S320II TNT2 Ultra 32MB SGRAM (2X)	5.12.01.0618 (nVidia)	Pass	Pass	Pass	
Leadtek WinFast 3D S320V TNT2 VANTA 8MB (2X)	5.12.01.0618 (nVidia)	Pass	*Pass (#3)	Pass	* Ignore 3D Quality (52/69) Fail can pass test.
Matrox Mystique G200 8MB SGRAM (2X)	5.00.2195.1030	Pass	Pass	Pass	Detect (1X)
Sparkle TNT2 VANTA 8MB (2X)	5.12.01.0618 (nVidia)	Pass	*Pass (#3)	Pass	* Ignore 3D Quality (52/69) Fail can pass test.
Voodoo 3 –3000 16MB (2X)	5.00.2195.0151	Pass	Pass	Pass	
Voodoo 5 – 5500 64MB (2X)	5.00.2195.0142	Pass	Pass	Pass	
ASUS AGP-V385GX2 4MB SGRAM (1X)	5.1024.329.0002 (Win2K)	Pass	No Result (Need new driver)	*Fail (3DMark Error)	No new driver to verify.
Diamond Fire GL 1000 Pro 8MB SGRAM (1X)	5.00.2180.1 (Win2K)	Pass	3D Quality (55/69) Fail	*Fail (3DMark Error)	No new driver to verify.
Matrox Productiva G100 8MB (1X)	5.00.2195.1030	*Pass	*Pass	Can't Run	* Software 3D (#9)
ECS 3D Vision-985 Trident 9850 4MB SGRAM (1X)	5.00.2167.0030 (Win2K)	*Pass	Not Run (Need new driver)	Can't Run	* Software 3D (#8)
ECS 3D Vision-SAGP RIVA128 4MB (1X)	5.00.2165.0343 (Win2K)	*Pass	Not Run (Need new driver)	Can't Run	* Software 3D (#8)

#1: Used same driver on P6VAP-A+ rev: 1.1, P6VXM rev: B and K7VZA rev 1.0 had the same problem to detect AGP 2X.

#2: Random can't enter win98se, black screen. Sometime can enter Win98se, but after you shutdown and then start the system it still had black screen. But P6VAP-A+ rev: 1.1 no this problem.

#3: Used same driver on P6VXM rev: B, P6VMM rev: 1.0, P6ISM rev: 1.0, P6ISM II rev: 1.0, K7VZA rev 1.0 and P6VAP-A+ rev: 1.1 had the same problem maybe driver's problems.

#4: Used same driver on P6VXM rev: B had the same problem, But K7VZA rev 1.0 had not this problem.

#5: Used same driver on P6VMM rev: 1.0, P6VAP-A+ rev: 1.1 and P6VXM rev: B had the same problem.

#6: Used same driver on P6VMM rev: 1.0, K7VZA rev 1.0, P6VAP-A+ rev: 1.1 and P6VXM rev: B had not this problem.

#7: Used same driver on P6VXM rev: B, P6VMM rev: 1.0 and P6VAP-A+ rev: 1.1 had the same problem to detect AGP 1X.

#8: Windows 2000 Build-in Driver not supports Direct3D Hardware.

#9: Driver not supports Direct3D Hardware.

1. HMCCT TNT2 M64 32MB (4X) run Final Reality 1.01 random hang, but used same driver on P6VMM rev: 1.0, K7VZA rev 1.0, P6VAP-A+ rev: 1.1 and P6VXM rev: B had not this problem.

2. APAC S3 Savage 3D 8MB SGRAM (2X) and ENNYAH Trident BLADE 3D 9880 8MB (2X) run test program hang. Used same driver on P6VMM rev: 1.0, P6VAP-A+ rev: 1.1 and P6VXM rev: B had the same problem.

12. Q&A

Q1. When flash BIOS, program can't clear PnP and DMI.

Q2. "BIOS ROM" test item fail.

Q4. During the test, system will appeared "Zdbui32: illegal operation and will be shutdown" message, but one DIMM is normal.

Q5 The sound quality no good when system connect to inter net and on line play media.

Q6 Unstable memory list.

64MB*2 / Mosel V54C365804VCT8PC / PC100

128MB*2 / SEC KM48S8030CT-GL / PC 100

Q7.Unstable AGP list:

ATI Rage 128 PRO 32MB SGRAM (4X)

APAC S3 Savage 3D 8MB SGRAM (2X)

ENNYAH Trident BIADE 3D 9880

CREATIVE 3D BLASTER Savage4 32MB (4X)

Limitation:

L1: The test item is fail if CPU freqrece > 500MHz, this QAPlus 5.60 application limitation.

QAPlus/FE 5.60

RT Clock Interrupt: Fail

Clock/Calendar Test: Fail

L2: About Linux:

Install Linux (RedHat V6.2 & Caldera OpenLinux eDesktop V2.4) has some fail msg,
when system load VIA82CXXX FAIL. It's Linux unknow VIA chipset.

L3: Please use "ZVHDD" tools create partition after setup win98se.