

AK-SR7

PRODUCT TEST REPORT

By
AKOM TEST CENTER

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Part A. SPECIFICATION TEST

1 Product Specification

FEATURES	DESCRIPTION
CPU	<input type="checkbox"/> Single P4 3.06GHz+ (FSB 400/533)
DRAM	<input type="checkbox"/> 3 DIMMS support up to 3GB DDR 200/266/333
Chipset	<input type="checkbox"/> SIS 645DX + SIS 961B
LAN	<input type="checkbox"/> One Broadcom BCM5703 GbE port
IDE Channels	<input type="checkbox"/> 2 South bridge ATA133 IDE connector <input type="checkbox"/> 8 HPT372 ATA133 IDE connector
Floppy	<input type="checkbox"/> One 1,44MB
On-board I/O	<input type="checkbox"/> 2 USB1.1 ports <input type="checkbox"/> PS/2 keyboard and mouse connector <input type="checkbox"/> 2 parallel port (COM port) <input type="checkbox"/> 1 LPT port
Expansion Slot	<input type="checkbox"/> Two PCI 2.2 Specification compliance slots
Others	<input type="checkbox"/> On-board debug LED <input type="checkbox"/> On-board power on & reset switch
Hardware RAID support	<input type="checkbox"/> 4 HPT372 C\controllers support RAID-0 RAID-1 RAID-0+1 JBOD up to 4 HDDs
BIOS available	<input type="checkbox"/> SR7_24
HPT372 BIOS available	<input type="checkbox"/> HPT V2.32

2 System Specific Function Test

CPU TEST						
Vender	Model	L2 Catch	Voltage	Clock Multiplier	Bus Speed	Remark
Intel	Pentium 4-1500	256KB	1.75V	15X	100 MHz	
	Pentium 4-1600	256KB	1.75V	16X	100 MHz	
		512KB	1.45V			
	Pentium 4-1700	256KB	1.75V	17X	100 MHz	
		512KB	1.45V			
	Pentium 4-1800	256KB	1.75V	18X	100 MHz	
		512KB	1.45V			
	Pentium 4-1900	256KB	1.45V	19X	100 MHz	
	Pentium 4-2000	512KB	1.45V	20X	100 MHz	
	Pentium 4-2200	512KB	1.45V	22X	100 MHz	
	Pentium 4-2266	512KB	1.45V	17X	133 MHz	
Pentium 4-2400	512KB	1.45V	18X	133 MHz		
MEMORY TEST						
Type	Size	Vendor	Module	Chip Vendor	Chip Component	
184 Pin DIMM Module (266MHz)	128Mbytes	Micron	MT8VDDT1664AG-265A1	Micron	MT46V16M8-75A	
		Nanya	PC266 128MB	Nanya	NT5DS16M8AT-75B	
		Samsung	128MB DDR PC266	Samsung	K4H280838B-TCB0	
		Twinmos	PC266 128MB	Hyundai	HY5DU28822	
		Twinmos	PC2100 128MB DDR-2	Hyundai	HY5DU28822T-H	
		VIA	NT128D64S88A0G-7K	Nanya	NT5DS16M8AT-7K	
		Winbond	W9412FADA-7	Winbond	W942516AH-7	
	256Mbytes	Kingmax	MPLB62D-68K	Kingmax	KDL684T4A2A-06	
		Kingmax	MPLB62D-68KX2	Kingmax	KDL684T4A2A-07A	
		Samsung	PC266 DDR	Samsung	K4H280838B-TCB0	
		Samsung	RLDT1256 256MB	Samsung	K4H280838B-TCB0	
		Samsung	M368L3313BT1-CB0	Samsung	K4H280838B-TCB0	
		Transcend	PC266 256MB DDR	Mosel	V58C2128804SAT75	
		Twinmos	PC2100 256MB DDR/CL2	Hynix	HY5DU28822AT-K	
		Winbond	W9425GARA-7	Winbond	W942525GARA-7	
	512Mbytes	Infineon	HYS64D64020GU-7-A	Infineon	HYB250256800AT-7	

MEMORY TEST					
184 Pin	256Mbytes	Kingmax	MPMB62D-68KX3	Kingmax	KDL884T4A2A-05
DIMM Module		Nanya	256MB DDR333	Nanya	NT5DS16M8AT-6
(333 MHz)	512Mbytes	Samsung	M368L6423CTL-CB3	Samsung	K4H560838C-TCB3
FRONT PANEL INTERFACE					
Type	Test Item	O.S. Environment	Result	Features Tested	
Power Button	One Touch	CMOS	Pass	See system power working normally	
	>4 Sec's	CMOS	Pass	4 Sec's shut down since last system hole	
Reset Button	Reset System	Windows 2K/XP	Pass	Reset system works properly	
Power LED	Normal Mode	Windows 2K/XP	Pass	Power LED must not blink	
	Suspend Mode	Windows 2K/XP	Pass	Power LED must blink	
HDD LED	Active	Windows 2K/XP	Pass	HDD LED must active while IDE HDD access	
Sleep LED	Normal Mode	Windows 2K/XP	Pass	Sleep LED must not blink	
	Suspend Mode	Windows 2K/XP	Pass	Sleep LED not blink	
LAN LED	Link	Windows 2K/XP	Pass	LAN LED must bright	
	Active	Windows 2K/XP	pass	LAN LED must blink while network data access	
Floppy Drive	Active	Windows 2K/XP	Pass	Floppy drive should works normally	
BACK PANEL INTERFACE					
Type	Test Item	O.S. Environment	Result	Features Tested	
PS/2	Keyboard	Windows 2K/XP	Pass	PS/2 keyboard should work normally	
Connectors	Mouse	Windows 2K/XP	Pass	PS/2 mouse should work normally	
Serial Ports	COM 1	Windows 2K/XP	Pass	Serial port should work normally	
	COM 2	Windows 2K/XP	Pass	Serial port should work normally	
	Enable	Windows 2K/XP	Pass	Parallel port should work normally	
	Disable	Windows 2K/XP	Pass	Parallel port should not be found by O.S.	
	Enable	Windows 2K/XP	Pass	LAN port should work normally	
	Disable	Windows 2K/XP	Pass	LAN port Should not be found by O.S.	
	USB 1	Windows 2K/XP	Pass	USB port should work normally	
	USB 2	Windows 2K/XP	Pass	USB port should work normally	

ON-BOARD CONNECTORS AND SLOTS				
Reset	Active	Windows 2K/XP CMOS	Pass	System could be reboot while press reset switch
Power on	Active	Windows 2K/XP CMOS	Pass	System could be power on while press power on switch
Debug LED	Active	CMOS	Pass	Check Debug LED could work normally
RTCCLR	Clear CMOS	CMOS	Pass	System should reentry BIOS with minimum setting
System LED	Active	CMOS	Pass	System LED should on after connect power cable
System Battery	Active	CMOS	Pass	System battery should be available
5V / +5V Power	Keyboard	Windows 2K/XP	Pass	5V or +5V standby power should have function
Control	USB 0-1	Windows 2K/XP	Pass	5V or +5V standby power should have function
ON-BOARD CONNECTORS AND SLOTS				
Fan Connectors	CPU Fan	CMOS	Pass	Fan speed should be in range, work and with ACPI
	Power Fan	CMOS	Pass	Power speed should be in range, work and with ACPI
	Chassis Fan	CMOS	Pass	Chassis speed should be in range, work and with ACPI
System Slots	Floppy	Windows 2K/XP	Pass	Floppy slot should be function and no mechanical problem
	CPU	Windows 2K/XP	Pass	CPU slot should be function and no mechanical problem
	DRAM Slots	Windows 2K/XP	Pass	DRAM slot should be function and no mechanical problem
	PCI Slots	Windows 2K/XP	Pass	PCI slot should be function and no mechanical problem
	IDE 1	Windows 2K/XP	Pass	IDE1 should be function and no mechanical problem
	IDE 2	Windows 2K/XP	Pass	should be function and no mechanical problem
	IDE 3	Windows 2K/XP	Pass	should be function and no mechanical problem
	IDE 4	Windows 2K/XP	Pass	should be function and no mechanical problem
	IDE 5	Windows 2K/XP	Pass	should be function and no mechanical problem
	IDE 6	Windows 2K/XP	Pass	should be function and no mechanical problem
	IDE 7	Windows 2K/XP	Pass	should be function and no mechanical problem

	IDE 8	Windows 2K/XP	Pass	should be function and no mechanical problem
	IDE 9	Windows 2K/XP	Pass	should be function and no mechanical problem
	IDE 10	Windows 2K/XP	Pass	should be function and no mechanical problem

3 BIOS Function Test

3.1 Server Board BIOS Function Test

SOFTMENU SETUP				
Type	Test Item	O.S. Environment	Result	Features Tested
CPU Operation Speed	Default (FSB 133*4)	CMOS	Fail	CPU speed should be auto detected by BIOS
	Default (FSB 100*4)	CMOS	Pass	CPU speed should be auto detected by BIOS
	User define (FSB 100*4)	CMOS	Pass	CPU speed should be set by manual
	User define (FSB 100*4)	CMOS	Pass	CPU speed should be set by manual
	Default Multiplier Factor	CMOS	Pass	CPU multiplier should be auto detected by BIOS
	User define Multiplier Factor	CMOS	Pass	CPU multiplier should be set manual
FSB Rate 133*4 DRAM/AGP/PCI	4/3/2/1	CMOS	Pass	DRAM/AGP/PCI frequency can be set
	4/4/2/1	CMOS	Pass	DRAM/AGP/PCI frequency can be set
	4/5/2/1	CMOS	Pass	DRAM/AGP/PCI frequency can be set
FSB Rate 100*4 DRAM/AGP/PCI	48/80/30/15	CMOS	Pass	DRAM/AGP/PCI frequency can be set
	3/3/2/1	CMOS	Pass	DRAM/AGP/PCI frequency can be set
	3/4/2/1	CMOS	Pass	DRAM/AGP/PCI frequency can be set
CPU Power Supply Core Voltage	Default Willimat (1.75V)	CMOS	Pass	Pentium-4 Willimate Vcore should be auto detected
	Default Northwood (1.5V)	CMOS	Pass	Pentium-4 Northwood Vcore should be auto detected
	User define	CMOS	Pass	Pentium-4 Vcore should be set by user

STANDARD CMOS FEATURES				
Type	Test Item	O.S. Environment	Result	Features Tested
System Date	Date	CMOS	Pass	System data should be within the margin of Spec
System Time	Time	CMOS	Pass	System time should be within the margin of Spec
STANDARD CMOS				
Hard Disks	Auto	Windows 2K/XP	Pass	IDE HDD auto detection and HDD size >140G
	Manual	Windows 2K/XP	Pass	IDE HDD with user-define setting
	None	Windows 2K/XP	Pass	With none selected, HDD should not be detected
Drive A	1.44MB	Windows 2K/XP	Pass	1.44Mb Floppy drive
	None	Windows 2K/XP	Pass	Disable Floppy drive
Drive B	1.44MB	Windows 2K/XP	Pass	1.44Mb Floppy drive
	None	Windows 2K/XP	Pass	Disable Floppy drive
Halt On	All Errors	CMOS	Pass	Error check must be confirmed since error occurred
Install Memory	Base Memory	CMOS	Pass	Base memory should match to real memory size
	Extended Memory	CMOS	Pass	Extended memory should match to real memory size
	Total Memory	CMOS	Pass	Total Memory should match to real memory size
Advanced BIOS Features				
Type	Test Item	O.S. Environment	Result	Features Tested
Virus Warning	Enable	Windows 2K/XP	Pass	BIOS should warn when virus attempt to access the boot sector or partition table
	Disable	Windows 2K/XP	Pass	BIOS should not warn when virus attempt to access the boot sector or partition table
	Disable	Windows 2K/XP	Pass	Disable L2 Catch
Quick POST	Enable	CMOS	Pass	BIOS should run completely test procedures
	Disable	CMOS	Pass	BIOS should simplify the test procedures
Boot Device	First	Windows 2K/XP	Pass	O.S. should be boot from first device
	Second	Windows 2K/XP	Pass	O.S. should be boot from second device when first device not found
	Third	Windows 2K/XP	Pass	O.S. should be boot from third device when first and second device not found
Boot Other Device	Enable	Windows 2K/XP	Pass	O.S. should be boot from other device
	Disable	Windows 2K/XP	Pass	O.S. should not be boot from other device
Swap Floppy Drive	Enable	CMOS	Pass	CMOS should swap floppy drive a or b
	Disable	CMOS	Pass	CMOS should not swap floppy drive a or b
Boot up Floppy Seek	Enable	CMOS	Pass	CMOS should seek the Floppy Device
	Disable	CMOS	Pass	CMOS should not seek the Floppy Device

Advanced BIOS Features				
Type	Test Item	O.S. Environment	Result	Features Tested
Boot up NumLock Status	Enable	Windows 2K/XP	Pass	Numlock LED should work while On
	Disable	Windows 2K/XP	Pass	Numlock LED should work while On
Security Option	Setup	CMOS	Pass	Password needs when enter setup menu
	System	CMOS	Pass	Password needs when enter setup menu & OS
OS select for DRAM	Non-OS2	Windows 2k/XP	Pass	DRAM capacities >64MB should be correct when using non-OS2 operation system
	OS2	OS2	Pass	DRAM capacities >64MB should be correct when using OS2 operation system
Console Redirection	Enable	CMOS	Pass	Console redirection function should be enable and work correctly
	Disable	CMOS	Pass	Console redirection function should be disable
Baud Rate	Enable	CMOS	Pass	Baud rate should be set correctly
Agent wait time	Minutes	CMOS	Pass	Agent wait time should work correctly when enable
Agent after boot	Enable	CMOS	Pass	Agent should be enable when booting on
	Disable	CMOS	Pass	Agent shouldn't be enable when booting on
Video BIOS shadow	Enable	CMOS	Pass	Video card BIOS should be shadow to DRAM
	Disable	CMOS	Pass	Video card BIOS should not be shadow to DRAM
Delay IDE Initial	Seconds	CMOS	Pass	BIOS should delay seconds to detect HDD or CD-ROM, DVD-ROM
ADVANCED CHIPSET FEATURES				
Type	Test Item	O.S. Environment	Result	Features Tested
Advance DRAM Control	System Performance	CMOS	Pass	Parameters should set by user according DRAM
	DRAM CAS# Latency	CMOS	Pass	Parameters should set by user according DRAM
	DDR RAS Precharge Time	CMOS	Pass	Parameters should set by user according DRAM
	DDR RAS to CAS Delay	CMOS	Pass	Parameters should set by user according DRAM
	DDR Write Recovery time	CMOS	Pass	Parameters should set by user according DRAM
	Timing Constraint Control	CMOS	Pass	Parameters should set by user according DRAM

	CW Write Mask AGP Request	CMOS	Pass	Parameters should set by user according DRAM
	DRAM Driving Strength	CMOS	Pass	Parameters should set by user according DRAM
Memory Hole at 15M-16M	Enable	Windows 2K/XP	Pass	System should reserve memory hole 15-16M
	Disable	Windows 2K/XP	Pass	System should not reserve memory hole 15-16M
INTEGRATED PERIPHERALS				
Type	Test Item	O.S. Environment	Result	Features Tested
SIS OnChip IDE Device	Internal PCI/IDE	Windows 2K/XP	Pass	IDE1 IDE2 should be used by setting
	IDE Burst Mode	Windows 2K/XP	Pass	System should use burst mode while enable
	IDE PIO Mode	Windows 2K/XP	Pass	System should auto detect IDE device PIO mode
	IDE Ultra DMA	Windows 2K/XP	Pass	System should auto detect IDE device ultra DMA mode
Onboard Super IO Device	FDD Controller	Windows 2K/XP	Pass	Floppy device should be found while enable
	Serial Port 1	Windows 2K/XP	Pass	Serial port should work normally while enable
	Serial Port 2	Windows 2K/XP	Pass	Serial port should work normally while enable
	Parallel Port	Windows 2K/XP	Pass	Parallel port should work normally
	Parallel Port Mode	Windows 2K/XP	Pass	Different setting of parallel port should work normally
USB Controller	Enable	Windows 2K/XP	Pass	USB should work normally
	Disable	Windows 2K/XP	Pass	USB should not be found by O.S.
USB Keyboard Support	OS	Windows 2K/XP	Pass	O.S. should use USB keyboard
	BIOS	CMOS/DOS	Pass	USB keyboard should be used while system doesn't support USB
IDE HDD Block Mode	Enable	Windows 2K/XP	Pass	HDD should use multi-sector transfer
	Disable	Windows 2K/XP	Pass	HDD should not use multi-sector transfer
Onboard HPT A Controller	Enable	Windows 2K/XP	Pass	HPT A should work normally
	Disable	Windows 2K/XP	Pass	HPT A should not be found by O.S.
Onboard HPT B C D Controller	Enable	Windows 2K/XP	Pass	HPT B C D should work normally
	Disable	Windows 2K/XP	Pass	HPT B C D should not be found by O.S.
Onboard LAN Controller	Enable	Windows 2K/XP	Pass	LAN should work normally
	Disable	Windows 2K/XP	Pass	LAN should not be found by O.S.
IDE Access Interface	PCI Bus	Windows 2K/XP	Pass	Access IDE device from PCI bus
	Embedded Bus	Windows 2K/XP	Pass	Access IDE device from embedded bus
USB1 Access Interface	PCI Bus	Windows 2K/XP	Pass	Access IDE device from PCI bus
	Embedded Bus	Windows 2K/XP	Pass	Access IDE device from embedded bus
USB0 Access Interface	PCI Bus	Windows 2K/XP	Pass	Access IDE device from PCI bus
	Embedded Bus	Windows 2K/XP	Pass	Access IDE device from embedded bus

POWER MANAGEMENT				
Type	Test Item	O.S. Environment	Result	Features Tested
ACPI Suspend Type	S1	Windows 2K/XP	Pass	System should be power on Suspend
	S3	Windows 2K/XP	Pass	System should be Suspend to RAM
Modem Use IRQ	Auto	CMOS	Pass	BIOS should auto apply IRQ for MODEM
	Manual	CMOS	Pass	User should manual apply IRQ for MODEM
HDD off After	Time	Windows 2K/XP	Fail	HDD should shut down after setting time
Power Button Override	Instant	Windows 2K/XP	Pass	System should be shut down while power button on
	Delay 4 sec	Windows 2K/XP	Fail	System should be shut down while power button on >4 Sec's
Power State Resume Control	Always Off	Windows 2K/XP	Pass	Power state should be off while resume power
	Always On	Windows 2K/XP	Pass	Power state should be on while resume power
	Keep Pre-State	Windows 2K/XP	Pass	Power state should be the same as pre-state while resume power
PM Wake Up Events	IRQ [3-7, 9-15]	Windows 2K/XP	Pass	System should be wake up while IRQ [3-7,9-15] be used while enable
	IRQ 8 Break Suspend	Windows 2K/XP	Pass	System should be wake up while IRQ 8 be used while enable
	Wake-Up by PCI Card/ LAN	Windows 2K/XP	Pass	Wake up signal from LAN should awake system while enable
	USB Port wake up control	Windows 2K/XP	Fail	System should be wake up while USB device be used while enable
	KB Power On Password	Windows 2K/XP	Fail	System should be wake up while typing correct password while enable
	Resume by Alarm	CMOS	Fail	System should be wake up while enable

PNP/PCI CONFIGURATIONS				
Type	Test Item	O.S. Environment	Result	Features Tested
Force Update	Enable	CMOS	Fail	BIOS should update ESCD while boot on every time
ESCD	Disable	CMOS	Pass	BIOS should not update while boot on every time
Resources	Auto (ESCD)	CMOS	Pass	BIOS should auto allocate IRQ to device
Controlled by	Manual	CMOS	Pass	BIOS should allocate IRQ to device manually
PCI/VGA Palette	Enable	CMOS	Pass	Allow BIOS to preview VGA status while boot on
Snoop	Disable	CMOS	Pass	Deny BIOS to preview VGA status while boot on
Allocate IRQ to	Enable	CMOS	Pass	BIOS should allocate IRQ to VGA device
VGA	Disable	CMOS	Pass	BIOS should not allocate IRQ to VGA device
Allocate TRQ to	Enable	CMOS	Pass	BIOS should allocate IRQ to USB device
USB	Disable	CMOS	Pass	BIOS should not allocate IRQ to USB device
PIRQ_0/1 Use IRQ	Auto	CMOS	Pass	Allow system to allocate IRQ to PCI slot devices
No.	Manual	CMOS	Pass	Manual allocate IRQ to PCI slot devices

PC HEALTH				
Type	Test Item	O.S. Environment	Result	Features Tested
Thermal Monitor	CPU Thermal	CMOS	Pass	Thermal temp of CPU should be reasonable
	System Thermal	CMOS	Pass	Thermal temp of system should be reasonable
Fan Monitor	CPU Fan	CMOS	Pass	Fan speed of CPU should be reasonable
	Chassis Fan	CMOS	Pass	Fan speed of chassis should be reasonable
	Power Fan	CMOS	Pass	Fan speed of power should be reasonable
Voltage Monitor	VCORE Voltage	CMOS	Pass	VCORE detection should be corrected
	+3.3V Voltage	CMOS	Pass	+3.3V detection should be corrected
	+5V Voltage	CMOS	Pass	+5V detection should be corrected
	+12V Voltage	CMOS	Pass	+12V detection should be corrected
EXIT				
Type	Test Item	O.S. Environment	Result	Features Tested
Load Fail-Safe Default	Yes	CMOS	Pass	Load the BIOS values for the most stable, minimal-performance system operations
	No	CMOS	Pass	Don't load the BIOS values for the most stable, minimal-performance system operations
Load Optimized Default	Yes	CMOS	Pass	Load the default values that are factory settings for optimal performance system operations
	No	CMOS	Pass	Don't load the default values that are factory settings for optimal performance system operations
Set Password	Yes	CMOS	Pass	Set password for entering BIOS setup
	No	CMOS	Pass	Don't set password for entering BIOS setup
Save & Exit Setup	Yes	CMOS	Pass	Save BIOS settings & exit
	No	CMOS	Pass	Don't save BIOS setting & don't exit
Exit without Saving	Yes	CMOS	Pass	Exit without saving
	No	CMOS	Pass	Don't exit without saving

POST SCREEN				
Type	Test Item	O.S. Environment	Result	Features Tested
Screen String	Spelling	CMOS	Pass	Check any unsuitable string during POST
DEL Key	Entry BIOS	CMOS	Pass	Del key to entry BIOS should all works any post stage
Information List	List of system information	CMOS	Pass	All information in information list should correct
IRQ routing table	List of IRQ give	CMOS	Pass	IRQ routing table should be reasonable respect
Boot failure	Entry BIOS	CMOS	Pass	System should entry BIOS since last boot failure

BROADCOM PXE BIOS				
Type	Test Item	O.S. Environment	Result	Features Tested
Boot Protocol	PXE	CMOS	Pass	The system should boot from LAN
Boot Strap Type	Auto Detect	CMOS	Pass	The system should auto detect the boot strap type
	BBS	CMOS	Pass	The system should boot from PnP/BBS type
	Int 18h	CMOS	Pass	The system should boot from Int 18h
	Int 19h	CMOS	Pass	The system should boot from Int 19h
Hide Setup Prompt	Disable (default)	CMOS	Pass	CMOS should hide the PXE prompt strings
	Enable	CMOS	Pass	CMOS should show the PXE prompt strings
Setup Key Stroke	Ctrl-S	CMOS	Pass	The PXE BIOS menu should be entered by the key stroke
	Ctrl-B	CMOS	Pass	The PXE BIOS menu should be entered by the key stroke
Banner Message Timeout	Seconds	CMOS	Pass	The banner messages should stay for seconds
Link Speed	AutoNeg	CMOS	Pass	Check if auto detect the link speed
	10Mbps Full/Half	CMOS	Pass	Check if the link speed could be used
	100Mbps Full/Half	CMOS	Pass	Check if the link speed could be used
Preboot Wake On LAN	Enable (default)	CMOS	Pass	PXE BIOS should enable the wake on lan function
	Disable	CMOS	Pass	PXE BIOS should disable the wake on lan function

3.2 System Utility Test

SYSTEM UTILITY					
Package Name	Version	Publisher	OS Environment	Status	Remark
Award Flash	V8.01	Award	DOS	Pass	Flash a new BIOS
SYSTEM DIAGNOSTICS					
Package Name	Version	Publisher	OS Environment	Status	Remark
MEMTEST86	V1.04	Alexander	N/A	Pass	Execute memory test item
Hot CPU Pro	V3.3		W2K	Pass	Execute CPU, chipset, memory test
SYSTEM CERTIFICATION					
Package Name	Version	Publisher	OS Environment	Status	Remark
Windows 2000 Advance Server HCT	V9.502	Microsoft	Windows 2000/SP2	Pass	Execute Motherboard test
Windows XP Pro HCT	V10.0	Microsoft	Windows XP Professional	Pass	Execute Motherboard test
Windows 2003 Server Enterprise version	V11.0	Microsoft	Windows 2003 Server Enterprise	Pass	Execute Motherboard test
Linux RedHat	V9.0	Linux	RedHat	Pass	Installation, Base System, Display, Serial Ports, Parallel Ports, Mouse, Keyboard tests

3.3 HPT372 RAID Controller BIOS Function Test

Item	Function	Hot Spare	Duplicate	Rebuild	Remarks
Controller 1 (IDE3 IDE4)					
RAID 0	P	N/A	N/A	N/A	
RAID 1	P	P	P	P	
RAID 0+1	P	N/A	P	P	
JBOD	P	N/A	N/A	N/A	
Controller 2 (IDE5 IDE6)					
RAID 0	P	N/A	N/A	N/A	
RAID 1	P	P	P	P	
RAID 0+1	P	N/A	P	P	
JBOD	P	N/A	N/A	N/A	
Controller 3 (IDE7 IDE8)					
RAID 0	P	N/A	N/A	N/A	
RAID 1	P	P	P	P	
RAID 0+1	P	N/A	P	P	
JBOD	P	N/A	N/A	N/A	
Controller 4 (IDE9 IDE10)					
RAID 0	P	N/A	N/A	N/A	
RAID 1	P	P	P	P	
RAID 0+1	P	N/A	P	P	
JBOD	P	N/A	N/A	N/A	

4 Broacom BCM5703 GbE Basic Function Test

4.1 Basic Function Test

Item	Functions	OS Environment	Result	Tested Features
1	10/100 Mbps	Windows 2K/XP	Pass	Check the 10/100 Mbps speed work normally
2	1000 Mbps	Windows 2K/XP	Pass	Check the 1000 Mbps speed work normally
3	Web Browsing	Windows 2K/XP	Pass	Check if IE can brows network
4	Upload	Windows 2K/XP	Pass	Check if BCM5703 can upload files to file server
5	Download	Windows 2K/XP	Pass	Check if BCM5703 can download files from files server
6	Diagnostic tool	Windows 2K/XP	Pass	Check if cable & LEDs functions work done

4.2 Advanced Server Program Basic Function & Information

Item	Functions	OS Environment	Result	Tested Features
1	Fail Over	Windows 2K/XP	Pass	Install 82559 NIC to check if the functions work normally
2	Link Aggregation	Windows 2K/XP	Pass	Install 82559 NIC to check if the functions work normally
3	VALN	Windows 2K/XP	Pass	Create VLAN to check if the function work normally
4	Load Balance	Windows 2K/XP	Pass	Install 82559 NIC to check if the functions work normally
5	Trunking	Windows 2K/XP	Pass	Install 82559 NIC to check if the functions work normally

Part B. OPERATION SYSTEM ENVIRONMENT TEST

1 Microsoft Windows 98 SE Operation System Test

1.1 Software Compatibility Test

Operation System Compatibility

O.S. Name	Version	Publisher	Status	Test Criteria
Windows 2003 Server	V 11.0	Microsoft	Pass	Install all versions of windows 2003 server, and ensure each version is setup successfully and necessary driver is installed. Follow by the testing on software and hardware device, all available connector, jumper, socket and slots are checked. This is to make sure the compatibility and functionality of these features is meet to the specific requirement
Windows 2003 Server Enterprise (Chinese Traditional)	V 11.0	Microsoft	Pass	
Windows 2003 Server web edition	V 11.0	Microsoft	Pass	
Windows 2003 Server Datacenter edition	V 11.0	Microsoft	Pass	

Application Software Compatibility

Database Applications					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Visual FoxPro	V6.0	Microsoft	Windows 2003 Server	Pass	Load a program file, Compile, Link, and Run this program
Utilities & Tools					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Norton SystemWork 2002	V4.0	Symantec	Windows 2003 Server	Pass	Install and execute virus checking
WinZip	V8.1	Nico Mak	Windows 2003 Server	Pass	Install, compress and run un-compress files

Integrated Applications / Project Management					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Office XP	Professional	Microsoft	Windows 2003 Server	Pass	Install from CD-ROM and execute PowerPoint, Excel, Schedule Plus, Word, Access application sample files open and save function
Office 2000	Professional	Microsoft	Windows 2003 Server	Pass	Install from CD-ROM and execute PowerPoint, Excel, Schedule Plus, Word, Access application sample files open and save function
Programming Language / Compiler					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Visual Basic	V6.0	Microsoft	Windows 2003 Server	Pass	Install from CD-ROM, Load Sample execute it
Visual C++	V6.0	Microsoft	Windows 2003 Server	Pass	Install from CD-ROM, Load Sample execute it
Visual InterDev	V6.0	Microsoft	Windows 2003 Server	Pass	Install from CD-ROM, Load Sample execute it
Visual Studio 2003 Enterprise Architecture	V7.0	Microsoft	Windows 2003 Server	Pass	Install From DVD-ROM, Load Sample, execute it
Communication / Remote Control / E-mail					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Microsoft Internet Explorer	V6.0	Microsoft	Windows 2003 Server	Pass	Down/Up load files via a FTP web server
Microsoft Outlook Express	V6.0	Microsoft	Windows 2003 Server	Pass	Receive/Send E-mail
Media Player					
Power DVD XP	V4.0	CyberLink	Windows 2003 Server	Pass	Open an existing DVD format CD from DVD-ROM, execute player with different size of windows open

Supporting Software Compatibility

Support CD				
Test Title	Version	Publisher	Status	Features Tested
Autorun Test	N/A	Akom	Pass	CD inserts or directly run Autorun program
Award Flash Test	V8.01	Award	Pass	Run flash.exe to update BIOS
SIS IDE Utility		SIS	Pass	Install utility and check all available functions
Hardware Monitor		Winbond	Pass	Install and check all available functions
Broadcom BACS		Broadcom	Pass	Install utility
HPT Management		HighPoint	Pass	Install utility and check all available functions
Brower CD	N/A	Akom	Pass	Brower directory, check any unsuitable content
Manual	N/A	Akom	Pass	Open manual. Check its content
Exit	N/A	Akom	Pass	Exit Autorun Menu

System Special Function Compatibility

Special Functions					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Direct Cable Connection	2003	Microsoft	Windows 2003 Server	Pass	Direct cable data transferring test via existing COM port, Parallel port
Windows 2003 System Suspend Test	2003	Akom	Windows 2003 Server	Pass	With existing Win2000, add auto suspend to startup field, aging overnight test
Windows 2003 System Rebooting	2003	Akom	Windows 2003 Server	Pass	With existing , add auto reboot to setup field, aging overnight test
Windows 2003 System Shut down	2003	Microsoft	Windows 2003 Server	Pass	Shut down O.S. and see its work normally
Windows 2003 System Information Checking	2003	Microsoft	Windows 2003 Server	Pass	Check all items working pass under system, information listing
Multiple Language Support	2003	Microsoft	Windows 2003 Server	Pass	Implement multiple language installation on pure English edition
Unattended Installation	2003	Microsoft	Windows 2003 Server	Pass	Implement unattended installation
Full loading DRAM	2003	Microsoft	Windows 2003 Server	Pass	Build up and aging system with full DRAM installed
Full loading IDE	2003	Microsoft	Windows 2003 Server	Pass	Build up and aging system with full PCI devices installed
Full loading USB	2003	Microsoft	Windows 2003 Server	Pass	Build up and aging system with full USB devices installed

System Tools and Strategy				
Type	Function	O.S. Environment	Status	Features Tested
Hard Disk	File system	Windows 2003 Server	Pass	Install Windows 2000 in any available file system
	Upgrade to Dynamic	Windows 2003 Server	Pass	Upgrade basic to dynamic HDD
	Disk Clear up	Windows 2003 Server	Pass	Clear unused system files
	Scandisk	Windows 2003 Server	Pass	Scan and fix HDD error
	Defragment	Windows 2003 Server	Pass	HDD defragment
	Quota set	Windows 2003 Server	Pass	Set HDD using limit
	Compress drive	Windows 2003 Server	Pass	Compress files
	EFS	Windows 2003 Server	Pass	Encrypted files
Shut Down Control	Log off	Windows 2003 Server	Pass	Logging off current user
	Shut down	Windows 2003 Server	Pass	Shut down system
	Suspend	Windows 2003 Server	Pass	Suspending system
	Hibernate	Windows 2003 Server	Pass	Hibernating system
	Power key to shut down	Windows 2003 Server	Pass	Direct power key to shut down system
	Power key to suspend	Windows 2003 Server	Pass	Direct power key to suspending system
	K/B power key	Windows 2003 Server	Pass	Keyboard power key to shut down system
	K/B sleep key	Windows 2003 Server	Pass	Keyboard sleep key to suspend system
Timer Automatic	Timer monitor off	Windows 2003 Server	Pass	Set timer to monitor off

work	Timer HDD off	Windows 2003 Server	Pass	Set timer to HDD off
	Timer suspend system	Windows 2003 Server	Pass	Set timer to suspending system
	Timer hibernate system	Windows 2003 Server	Pass	Set timer to hibernating system
	Timer screen saver	Windows 2003 Server	Pass	Set timer to run screen saver
	Scheduled task	Windows 2003 Server	Pass	Schedule timer to run task

System Tools and Strategy					
Type	Function		O.S. Environment	Status	Features Tested
System Upgrading	DC Promotion		Windows 2003 Server	Pass	Promote server to domain controller
Network services and Application	DNS		Windows 2003 Server	Pass	Install and run DNS
	Terminal service		Windows 2003 Server	Pass	Implement terminal service
	DHCP		Windows 2003 Server	Pass	Install and run DHCP
	WINS		Windows 2003 Server	Pass	Install and run WINS
	NAT		Windows 2003 Server	Pass	Implement NAT service
	DFS		Windows 2003 Server	Pass	Implement and run DFS
RAID Function	RAID-0		Windows 2003 Server	Pass	Implement RAID-0 function to combine IDE3 to IDE10 HDDs
	RAID-1		Windows 2003 Server	Pass	Implement RAID-1 to duplicate HDD
	RAID-5		Windows 2003 Server	Pass	Implement RAID-5 function to combine IDE3 to IDE10 HDDs
HPT372 Hot Swap	Hardware RAID	No RAID	Windows 2003 Server	Pass	Online Hot Swap HPT372 HDD
		RAID-1	Windows 2003 Server	Pass	Online Hot Swap HPT372 HDD and restore RAID-1
		RAID-0+1	Windows 2003 Server	Pass	Online Hot Swap HPT372 HDD and restore RAID-0+1
	Software RAID	RAID-1	Windows 2003 Server	Pass	Online Hot Swap HPT372 HDD and restore RAID-1
		RAID-5	Windows 2003 Server	Pass	Online Hot Swap HPT372 HDD and restore RAID-5
	Hardware RAID + Software RAID	RAID-10	Windows 2003 Server	Pass	Online Hot Swap HPT372 and restore RAID-10

ACPI BIOS Test				
Type	Test Item	O.S. Environment	Result	Features Tested
Timer Power Saving	Monitor off	Windows 2003 Server	Pass	Set timer for monitor off power saving
	HDD off	Windows 2003 Server	Pass	Set timer for HDD off power saving
	Standby	Windows 2003 Server	Pass	Set time for Standby power saving
Power Button	Power off in ACPI mode	Windows 2003 Server	Pass	The system soft off
	Stand by in ACPI mode	Windows 2003 Server	Pass	The system goes standby mode
Power work	Power supply fan	Windows 2003 Server	Pass	Check all available fan status while system entry S3
FAN work	All on board fan	Windows 2003 Server	Pass	Check all available fan status while system entry S3
External Signal to Wake up (S1)	ACPI wake on keyboard	Windows 2003 Server	Pass	Given a signal via Keyboard to wake up a standby system
	ACPI wake up on PS/2 Mouse	Windows 2003 Server	Pass	Given a signal via PS/2 Mouse to wake up a standby system
External Signal to Wake up (S3)	ACPI wake up on keyboard	Windows 2003 Server	Pass	Press power button to wake up a standby system
	ACPI wake up on PS/2 Mouse	Windows 2003 Server	Pass	Given a signal via Keyboard to wake up a standby system
	ACPI wake up on Power Button	Windows 2003 Server	Pass	Press power button to wake up a standby system
External Signal to Power up (S5)	ACPI power on keyboard	Windows 2003 Server	Pass	Given a signal via Keyboard to power up a standby system
	ACPI power on PS/2 Mouse	Windows 2003 Server	Pass	Given a signal via PS/2 Mouse to power up a standby system
	ACPI power on Power Button	Windows 2003 Server	Pass	Press power button to power up a standby system
Broadcom BACS Sever Function Test				
Type	Test Item	O.S. Environment	Result	Features Tested
Server Functions	Fail Over	Windows 2003	Pass	Install 82559NIC to check if the

		Server		functions work normally
	Link Aggregation	Windows 2003 Server	Pass	Install 82559NIC to check if the functions work normally
	VALN	Windows 2003 Server	Pass	Create VLAN to check if the function work normally
	Load Balance	Windows 2003 Server	Pass	Install 82559NIC to check if the functions work normally
	Trunking	Windows 2003 Server	Pass	Install 82559NIC to check if the functions work normally

1.2 Hardware Compatibility Test

System Device Functionality Test

IDE controller Mode detection					
Test Item	Version	Publisher	OS Environment	Status	Features Tested
IDE1	System	SIS	Windows 2003 Server	Pass	Check IDE1 mode detection
IDE2	System	SIS	Windows 2003 Server	Pass	Check IDE2 mode detection
IDE3	V2.32	HighPoint	Windows 2003 Server	Pass	Check IDE3 mode detection
IDE4	V2.32	HighPoint	Windows 2003 Server	Pass	Check IDE4 mode detection
IDE5	V2.32	HighPoint	Windows 2003 Server	Pass	Check IDE5 mode detection
IDE6	V2.32	HighPoint	Windows 2003 Server	Pass	Check IDE6 mode detection
IDE7	V2.32	HighPoint	Windows 2003 Server	Pass	Check IDE7 mode detection
IDE8	V2.32	HighPoint	Windows 2003 Server	Pass	Check IDE8 mode detection
IDE9	V2.32	HighPoint	Windows 2003 Server	Pass	Check IDE9 mode detection
IDE10	V2.32	HighPoint	Windows 2003 Server	Pass	Check IDE10 mode detection

IDE controller				
Test Item	HDD/CD-ROM	M/S	OS Environment	Status
IDE1	Maxtor D740X-6L (ATA 133)	M	Windows 2003 Server	Pass
IDE2	Lite-On LTN-163 (DVD 16X)	M	Windows 2003 Server	Pass
IDE3	Seagate 340016A (ATA 100)	M	Windows 2003 Server	Pass
IDE4	Maxtor D740X-6L (ATA 133)	M	Windows 2003 Server	Pass
IDE5	IBM IC35L160AVVA070 (160G)	M	Windows 2003 Server	Pass
IDE6	Seagate 320011A	M	Windows 2003 Server	Pass
IDE7	IBM DTLA-307045	M	Windows 2003 Server	Pass
IDE8	IBM IC35L120AVVA070 (120G)	M	Windows 2003 Server	Pass
IDE9	WD 7200RPM 120G	M	Windows 2003 Server	Pass
IDE10	WD 7200RPM 160G	M	Windows 2003 Server	Pass

Addon device functionality and Capatility

Graphic Adapters					
Type	Model	Driver Version	OS Environment	Status	Chipset
PCI	Lemel 6326	OS PnP	Windows 2003 Server	Pass	SIS6326
	Lemel 305	V3.0	Windows 2003 Server	Pass	SIS305
	Trident Blad3D	OS PnP	Windows 2003 Server	Pass	Blade 3D
100 Base Tx Ethernet Adapters					
Type	Model	Driver Version	OS Environment	Status	Chipset
PCI	Intel Pro 100	OS PnP	Windows 2003 Server	Pass	I82559
	Intel Pro100S	V6.1.3.0	Windows 2003 Server	Pass	I82550
	3C980C-TXM	V3.48.0.0	Windows 2003 Server	Pass	Broadcom
	Lemel RTL8139	V4.0.1.2	Windows 2003 Server	Pass	RTL8139C
SCSI Adapter					
Type	Model	Driver Version	OS Environment	Status	Chipset
PCI	Adaptec 2100S	V3.5.1	Windows 2003 Server	Pass	Adaptec
	Adaptec 3960D	V3.6.2.1	Windows 2003 Server	Pass	Adpatec
Floppy Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
Normal	NEC FD 123 H	FDD	Windows 2003 Server	Pass	
	Mitumi D353M3D	FDD	Windows 2003 Server	Pass	
	Panasonic JU-257A606P	FDD	Windows 2003 Server	Pass	
USB 1.1	Acer YD-8U10-01	USB1 2	Windows 2003 Server	Pass	
ISDN Modem Device					
Type	Model	Driver Version	OS Environment	Status	Remark
Serial	ZyXEL ISDN Terminal Adapter Omni TA 128	System	Windows 2003 Server	Pass	
Dial-Up Modem Device					
Type	Model	Driver Version	OS Environment	Status	Remark
Serial	Mitac E210	V1.01	Windows 2003 Server	Pass	
	GVC FM-56JT	V1.06b	Windows 2003 Server	Pass	
PCI	PCTel HSP56 Micro Modem	V7.65.0003.0	Windows 2003 Server	Pass	
USB 1.1	Mitac E500	V2.84.00	Windows 2003 Server	Pass	

Mouse Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
Serial	Logitech M-MM43	COM1, COM2	Windows 2003 Server	Pass	
	Microsoft Basic Mouse PS/2	COM1	Windows 2003 Server	Pass	
USB 1.1	Logitech M-BD53	USB1 2	Windows 2003 Server	Pass	
	Logitech M-BD58	USB1 2	Windows 2003 Server	Pass	
	Genius NetScroll+ NMU+P	USB1 2	Windows 2003 Server	Pass	
	Microsoft IntelliMouse	USB1 2	Windows 2003 Server	Pass	
	Microsoft IntelliMouse Explorer	USB1 2	Windows 2003 Server	Pass	
	Microsoft IntelliMouse Optical	USB1 2	Windows 2003 Server	Pass	
PS/2	Logitech M-CAB48A	PS/2	Windows 2003 Server	Pass	
	Logitech M-S34	PS/2	Windows 2003 Server	Pass	
	Logitech M-S43	PS/2	Windows 2003 Server	Pass	
	Genius PS/2 Mouse	PS/2	Windows 2003 Server	Pass	
	Microsoft Basic Mouse PS/2	PS/2	Windows 2003 Server	Pass	
	A4Tech WinEasy WWW-5	PS/2	Windows 2003 Server	Pass	
	Microsoft IntelliMouse	PS/2	Windows 2003 Server	Pass	
	Microsoft Wheel Mouse Optical	PS/2	Windows 2003 Server	Pass	

Keyboard Devices					
Type	Model	Connect Interface	OS Environment	Status	Remark
PS/2	Microsoft Internet Keyboard	PS/2	Windows 2003 Server	Pass	
	Microsoft Natural Keyboard Pro	PS/2	Windows 2003 Server	Pass	
	Logitech Internet Keyboard	PS/2	Windows 2003 Server	Pass	
CD-R/RW Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
IDE	YAMAHA CRW8424E	IDE1 IDE2	Windows 2003 Server	Pass	
	ASUS CRW-1210R	IDE1 IDE2	Windows 2003 Server	Pass	
USB1.1	lomega ZIPCD1024EXT	USB1 2	Windows 2003 Server	Pass	
DVD-R.DVD-RW Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
IDE	Ricoh MP5120A	IDE1 2	Windows 2003 Server	Pass	
ZIP Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
IDE	lomega Z100 ATAP13	IDE1 IDE2	Windows 2003 Server	Pass	
	lomega Z250 ATAPI250	IDE1 IDE2	Windows 2003 Server	Pass	
USB 1.1	lomega Z250USBPCMBP	USB1 2	Windows 2003 Server	Pass	

1.3 Field Stress Test

Test Type	Windows 2003 Server Multitasking with network access test		
Configuration	Intel Pentium 4-2000 768MB (DDR266 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 IBM IC35L120AVVA070 IDE2 Teac CD-540E Logitech Keyboard and Mouse		
Test Procedure	Run Multitasking on local PC and access remote workstation resource		
Result	Pass	Duration	72 Hours
Test Type	Windows 2003 Server Hot CPU Pro 3.3		
Configuration	Intel Pentium 4-2400 768MB (DDR333 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 Maxtor D740X-6L IDE2 Teac CD-540E Logitech Keyboard and Mouse		
Test Procedure	Run Hot CPU Pro 3.3 burn-in test		
Result	Pass	Duration	72 Hours
Test Type	Windows 2003 Server 3D Mark2002 Demo Mode		
Configuration	Intel Pentium 4-2200 768MB (DDR333 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 Seagate ST320011A IDE2 Teac CD-540E Logitech Keyboard and Mouse		
Test Procedure	Run 3D Mark2002 Demo Mode		
Result	Pass	Duration	72 Hours

2 Microsoft Windows 2000 Operation System Test

2.1 Software Compatibility Test

Operation System Compatibility

O.S. Name	Version	Publisher	Status	Test Criteria
Windows 2000 Professional	V2195	Microsoft	Pass	Install all versions of windows NT, and ensure each version is setup successfully and necessary driver is installed. Follow by the testing on software and hardware device, all available connector, jumper, socket and slots are checked. This is to make sure the compatibility and functionality of these features is meet to the specific requirement
Windows 2000 Server	V2195	Microsoft	Pass	
Windows 2000 Advance Server	V2195	Microsoft	Pass	
Windows 2000 Professional (Chinese Traditional)	V2195	Microsoft	Pass	
Windows 2000 Server (Chinese Traditional)	V2195	Microsoft	Pass	
Windows 2000 Advance Server (Chinese Traditional)	V2195	Microsoft	Pass	

Application Software Compatibility

Database Applications					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Borland dBase7	V7.0	Borland	Windows2000 AD Server	Pass	Load from CD-ROM, and using capture and image edition function
SQL Server	V7.0	Microsoft	Windows 2000 AD Server	Pass	Build up SQL server, create and access data
Visual FoxPro	V6.0	Microsoft	Windows 2000 AD Server	Pass	Load a program file, Compile, Link, and Run this program
Utilities & Tools					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
PC Anywhere	V10.0	Symantec	Windows 2000 Professional	Pass	Build up anywhere utility, remote access and control through network
Norton SystemWork 2002	2002	Symantec	Windows 2000 Professional	Pass	Install and execute virus checking
WinZip	V8.1	Nico Mak	Windows 2000 AD Server	Pass	Install, compress and run un-compress files

Integrated Applications / Project Management					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Project 2000	2000	Microsoft	Windows 2000 AD Server	Pass	Load a sample file and make organize project
Office XP	2001	Microsoft	Windows 2000 AD Server	Pass	Install from CD-ROM and execute PowerPoint, Excel, Schedule Plus, Word, Access application sample files open and save function
Office 2000	2000	Microsoft	Windows 2000 AD Server	Pass	Install from CD-ROM and execute PowerPoint, Excel, Schedule Plus, Word, Access application sample files open and save function
Programming Language / Compiler					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Visual Studio .Net	V7.0	Microsoft	Windows 2000 AD Server	Pass	Install from CD-ROM, Load Sample executive
Visual Basic	V6.0	Microsoft	Windows 2000 AD Server	Pass	Install from CD-ROM, Load Sample execute it
Visual C++	V6.0	Microsoft	Windows 2000 AD Server	Pass	Install from CD-ROM, Load Sample execute it
Visual InterDev	V6.0	Microsoft	Windows 2000 AD Server	Pass	Install from CD-ROM, Load Sample execute it
Communication / Remote Control / E-mail					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Microsoft Internet Explorer	V6.0	Microsoft	Windows 2000 AD Server	Pass	Down/Up load files via a FTP web server
Microsoft Outlook Express	V6.0	Microsoft	Windows 2000 AD Server	Pass	Receive/Send E-mail
Media Player					
Power DVD XP	V4.0	CyberLink	Windows 2000 AD Server	Pass	Open an existing DVD format CD from DVD-ROM, execute player with different size of windows open
Microsoft Media Player	V7.0	Microsoft	Windows 2000 AD Server	Pass	Open an existing DVD format CD from DVD-ROM, execute player with different size of windows open
ASUS DVD 2000 Player	V3.0	ASUS	Windows 2000 AD Server	Pass	Open an existing DVD format CD from DVD-ROM, execute player with different size of windows open

Supporting Software Compatibility

Support CD				
Test Title	Version	Publisher	Status	Features Tested
Autorun Test	None	Akom	Pass	CD inserts or directly run Autorun program
Award Flash Test	V8.01	Award	Pass	Run flash.exe to update BIOS
SIS IDE Utility		SIS	Pass	Install utility and check all available functions
Hardware Monitor		Winbond	Pass	Install and check all available functions
Broadcom BACS		Broadcom	Pass	Install utility
HPT Management		HighPoint	Pass	Install utility and check all available functions
Brower CD	N/A	Akom	Pass	Brower directory, check any unsuitable content
Manual	N/A	Akom	Pass	Open manual. Check its content
Exit	N/A	Akom	Pass	Exit Autorun Menu

System Special Function Compatibility

Special Functions					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Direct Cable Connection	2000	Microsoft	Windows 2000 AD Server	Pass	Direct cable data transferring test via existing COM port, Parallel port
Windows 2000 System Suspend Test	2000	Akom	Windows 2000 AD Server	Pass	With existing Win2000, add auto suspend to startup field, aging overnight test
Windows 2000 System Rebooting	2000	Akom	Windows 2000 AD Server	Pass	With existing , add auto reboot to setup field, aging overnight test
Windows 2000 System Shut down	2000	Microsoft	Windows 2000 AD Server	Pass	Shut down O.S. and see its work normally
Windows 2000System Information Checking	2000	Microsoft	Windows 2000 AD Server	Pass	Check all items working pass under system, information listing
Multiple Language Support	2000	Microsoft	Windows 2000 AD Server	Pass	Implement multiple language installation on pure English edition
Service Pack	2	Microsoft	Windows 2000 AD Server	Pass	Implement service pack installation
Unattended Installation	2000	Microsoft	Windows 2000 AD Server	Pass	Implement unattended installation
Full loading DRAM	2000	Microsoft	Windows 2000 AD Server	Pass	Build up and aging system with full DRAM installed

Special Functions					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Full loading IDE	2000	Microsoft	Windows 2000 AD Server	Pass	Build up and aging system with full PCI devices installed
Full loading USB	2000	Microsoft	Windows 2000 AD Server	Pass	Build up and aging system with full USB devices installed
System Tools and Strategy					
Type	Function	O.S. Environment	Status	Features Tested	
Hard Disk	File system	Windows 2000 AD Server	Pass	Install Windows 2000 in any available file system	
	Upgrade to Dynamic	Windows 2000 AD Server	Pass	Upgrade basic to dynamic HDD	
	Disk Clear up	Windows 2000 AD Server	Pass	Clear unused system files	
	Scandisk	Windows 2000 AD Server	Pass	Scan and fix HDD error	
	Defragment	Windows 2000 AD Server	Pass	HDD defragment	
	Quota set	Windows 2000 AD Server	Pass	Set HDD using limit	
	Compress drive	Windows 2000 AD Server	Pass	Compress files	
	EFS	Windows 2000 AD Server	Pass	Encrypted files	

System Tools and Strategy				
Type	Function	O.S. Environment	Status	Features Tested
Shut Down Control	Log off	Windows 2000 AD Server	Pass	Logging off current user
	Shut down	Windows 2000 AD Server	Pass	Shut down system
	Suspend	Windows 2000 AD Server	Pass	Suspending system
	Hibernate	Windows 2000 AD Server	Pass	Hibernating system
	Power key to shut down	Windows 2000 AD Server	Pass	Direct power key to shut down system
	Power key to suspend	Windows 2000 AD Server	Pass	Direct power key to suspending system
	K/B power key	Windows 2000 AD Server	Pass	Keyboard power key to shut down system
	K/B sleep key	Windows 2000 AD Server	Pass	Keyboard sleep key to suspend system
Timer Automatic work	Timer monitor off	Windows 2000 AD Server	Pass	Set timer to monitor off
	Timer HDD off	Windows 2000 AD Server	Pass	Set timer to HDD off
	Timer suspend system	Windows 2000 AD Server	Pass	Set timer to suspending system
	Timer hibernate system	Windows 2000 AD Server	Pass	Set timer to hibernating system
	Timer screen saver	Windows 2000 AD Server	Pass	Set timer to run screen saver
	Scheduled task	Windows 2000 AD Server	Pass	Schedule timer to run task
System Upgrading	DC Promotion	Windows 2000 AD Server	Pass	Promote server to domain controller

System Tools and Strategy					
Type	Function		O.S. Environment	Status	Features Tested
Network services and Application	DNS		Windows 2000 AD Server	Pass	Install and run DNS
	Terminal service		Windows 2000 AD Server	Pass	Implement terminal service
	DHCP		Windows 2000 AD Server	Pass	Install and run DHCP
	WINS		Windows 2000 AD Server	Pass	Install and run WINS
	NAT		Windows 2000 AD Server	Pass	Implement NAT service
	DFS		Windows 2000 AD Server	Pass	Implement and run DFS
RAID Function	RAID-0		Windows 2000 AD Server	Pass	Implement RAID-0 function to combine IDE3 to IDE10 HDDs
	RAID-1		Windows 2000 AD Server	Pass	Implement RAID-1 to duplicate HDD
	RAID-5		Windows 2000 AD Server	Pass	Implement RAID-5 function to combine IDE3 to IDE10 HDDs
HPT372 Hot Swap	Hardware RAID	No RAID	Windows 2000 AD Server	Pass	Online Hot Swap HPT372 HDD
		RAID-1	Windows 2000 AD Server	Pass	Online Hot Swap HPT372 HDD and restore RAID-1
		RAID-0+1	Windows 2000 AD Server	Pass	O-line Hot Swap HPT372 HDD and restore RAID-0+1
	Software RAID	RAID-1	Windows 2000 AD Server	Pass	Online Hot Swap HPT372 HDD and restore RAID-1
		RAID-5	Windows 2000 AD Server	Pass	Online Hot Swap HPT372 HDD and restore RAID-5
	Hardware RAID + Software RAID	RAID-10	Windows 2000 AD Server	Pass	On=line Hot Swap HPT372 and restore RAID-10

ACPI BIOS Test				
Type	Test Item	O.S. Environment	Result	Features Tested
Timer Power Saving	Monitor off	Windows 2000 AD Server	Pass	Set timer for monitor off power saving
	HDD off	Windows 2000 AD Server	Pass	Set timer for HDD off power saving
	Standby	Windows 2000 AD Server	Pass	Set time for Standby power saving
Power Button	Power off in ACPI mode	Windows 2000 AD Server	Pass	The system soft off
	Stand by in ACPI mode	Windows 2000 AD Server	Pass	The system goes standby mode
Power work	Power supply fan	Windows 2000 AD Server	Pass	Check all available fan status while system entry S3
FAN work	All on board fan	Windows 2000 AD Server	Pass	Check all available fan status while system entry S3
External Signal to Wake up (S1)	ACPI wake on keyboard	Windows 2000 AD Server	Pass	Given a signal via Keyboard to wake up a standby system
	ACPI wake up on PS/2 Mouse	Windows 2000 AD Server	Pass	Given a signal via PS/2 Mouse to wake up a standby system
External Signal to Wake up (S3)	ACPI wake up on keyboard	Windows 2000 AD Server	Pass	Press power button to wake up a standby system
	ACPI wake up on PS/2 Mouse	Windows 2000 AD Server	Pass	Given a signal via Keyboard to wake up a standby system
	ACPI wake up on Power Button	Windows 2000 AD Server	Pass	Press power button to wake up a standby system
External Signal to Power up (S5)	ACPI power on keyboard	Windows 2000 AD Server	Pass	Given a signal via Keyboard to power up a standby system
	ACPI power on PS/2 Mouse	Windows 2000 AD Server	Pass	Given a signal via PS/2 Mouse to power up a standby system
	ACPI power on Power Button	Windows 2000 AD Server	Pass	Press power button to power up a standby system

Broadcom BACS Sever Function Test				
Type	Test Item	O.S. Environment	Result	Features Tested
Server Functions	Fail Over	Windows 2000 AD Server	Pass	Install 82559NIC to check if the functions work normally
	Link Aggregation	Windows 2000 AD Server	Pass	Install 82559NIC to check if the functions work normally
	VALN	Windows 2000 AD Server	Pass	Create VLAN to check if the function work normally
	Load Balance	Windows 2000 AD Server	Pass	Install 82559NIC to check if the functions work normally
	Trunking	Windows 2000 AD Server	Pass	Install 82559NIC to check if the functions work normally

2.2 Hardware Compatibility Test

System Device Functionality Test

IDE controller Mode detection					
Test Item	Version	Publisher	OS Environment	Status	Features Tested
IDE1	System	SIS	Windows 2000 AD Server	Pass	Check IDE1 mode detection
IDE2	System	SIS	Windows 2000 AD Server	Pass	Check IDE2 mode detection
IDE3	V2.32	HighPoint	Windows 2000 AD Server	Pass	Check IDE3 mode detection
IDE4	V2.32	HighPoint	Windows 2000 AD Server	Pass	Check IDE4 mode detection
IDE5	V2.32	HighPoint	Windows 2000 AD Server	Pass	Check IDE5 mode detection
IDE6	V2.32	HighPoint	Windows 2000 AD Server	Pass	Check IDE6 mode detection
IDE7	V2.32	HighPoint	Windows 2000 AD Server	Pass	Check IDE7 mode detection
IDE8	V2.32	HighPoint	Windows 2000 AD Server	Pass	Check IDE8 mode detection
IDE9	V2.32	HighPoint	Windows 2000 AD Server	Pass	Check IDE9 mode detection

IDE10	V2.32	HighPoint	Windows 2000 AD Server	Pass	Check IDE10 mode detection
IDE controller					
Test Item	HDD/CD-ROM	M/S	OS Environment	Status	
IDE1	Maxtor D740X-6L (ATA 133)	M	Windows 2000 AD Server	Pass	
IDE2	Lite-On LTN-163 (DVD 16X)	M	Windows 2000 AD Server	Pass	
IDE3	Seagate 340016A (ATA 100)	M	Windows 2000 AD Server	Pass	
IDE4	Maxtor D740X-6L (ATA 133)	M	Windows 2000 AD Server	Pass	
IDE5	IBM IC35L160AVVA070 (160G)	M	Windows 2000 AD Server	Pass	
IDE6	Seagate 320011A	M	Windows 2000 AD Server	Pass	
IDE7	IBM DTLA-307045	M	Windows 2000 AD Server	Pass	
IDE8	IBM IC35L120AVVA070 (120G)	M	Windows 2000 AD Server	Pass	
IDE9	WD 7200RPM 120G	M	Windows 2000 AD Server	Pass	
IDE10	WD 7200RPM 160G	M	Windows 2000 AD Server	Pass	

Addon device functionality and Capability

Graphic Adapters					
Type	Model	Driver Version	OS Environment	Status	Chipset
PCI	Lemel 6326	OS PnP	Windows 2000 AD Server	Pass	SIS6326
	Lemel 305	V3.0	Windows 2000 AD Server	Pass	SIS305
	Trident Blad3D	OS PnP	Windows 2000 AD Server	Pass	Blade 3D
100 Base Tx Ethernet Adapters					
Type	Model	Driver Version	OS Environment	Status	Chipset
PCI	Intel Pro 100	OS PnP	Windows 2000 AD Server	Pass	I82559
	Intel Pro100S	V6.1.3.0	Windows 2000 AD Server	Pass	I82550
	3C980C-TXM	V3.48.0.0	Windows 2000 AD Server	Pass	Broadcom
	Lemel RTL8139	V4.0.1.2	Windows 2000 AD Server	Pass	RTL8139C
	D-Link DFE-530TX	V2.66.0.290	Windows 2000 AD Server	Pass	Davicom DM9101F
	Accton EN1207F-TX	V1.12.10.16	Windows 2000 AD Server	Pass	Accton EN5251BE
	Buffalo LGY-PCI-TXL	V2.11.2000.5	Windows 2000 AD Server	Pass	MX MX98715AEC-E
SCSI Adapter					
Type	Model	Driver Version	OS Environment	Status	Chipset
PCI	Adaptec 2100S	V3.5.1	Windows 2000 AD Server	Pass	Adaptec
	Adaptec 3960D	V3.6.2.1	Windows 2000 AD Server	Pass	Adaptec
Floppy Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
Normal	NEC FD 123 H	FDD	Windows 2000 AD Server	Pass	
	Mitumi D353M3D	FDD	Windows 2000 AD Server	Pass	
	Panasonic JU-257A606P	FDD	Windows 2000 AD Server	Pass	
USB 1.1	Acer YD-8U10-01	USB1 2	Windows 2000 AD Server	Pass	
ISDN Modem Device					
Type	Model	Driver Version	OS Environment	Status	Remark
Serial	ZyXEL ISDN Terminal Adapter Omni TA 128	System	Windows 2000 AD Server	Pass	

Dial-Up Modem Device					
Type	Model	Driver Version	OS Environment	Status	Remark
Serial	Mitac E210	V1.01	Windows 2000 AD Server	Pass	
	GVC FM-56JT	V1.06b	Windows 2000 AD Server	Pass	
PCI	PCTel HSP56 Micro Modem	V7.65.0003.0	Windows 2000 AD Server	Pass	
USB 1.1	Mitac E500	V2.84.00	Windows 2000 AD Server	Pass	
Mouse Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
Serial	Logitech M-MM43	COM1, COM2	Windows 2000 AD Server	Pass	
	Microsoft Basic Mouse PS/2	COM1	Windows 2000 AD Server	Pass	
USB 1.1	Logitech M-BD53	USB1 2	Windows 2000 AD Server	Pass	
	Logitech M-BD58	USB1 2	Windows 2000 AD Server	Pass	
	Genius NetScroll+ NMU+P	USB1 2	Windows 2000 AD Server	Pass	
	Microsoft IntelliMouse	USB1 2	Windows 2000 AD Server	Pass	
	Microsoft IntelliMouse Explorer	USB1 2	Windows 2000 AD Server	Pass	
	Microsoft IntelliMouse Optical	USB1 2	Windows 2000 AD Server	Pass	
PS/2	Logitech M-CAB48A	PS/2	Windows 2000 AD Server	Pass	
	Logitech M-S34	PS/2	Windows 2000 AD Server	Pass	
	Logitech M-S43	PS/2	Windows 2000 AD Server	Pass	
	Genius PS/2 Mouse	PS/2	Windows 2000 AD Server	Pass	
	Microsoft Basic Mouse PS/2	PS/2	Windows 2000 AD Server	Pass	
	A4Tech WinEasy WWW-5	PS/2	Windows 2000 AD Server	Pass	
	Microsoft IntelliMouse	PS/2	Windows 2000 AD Server	Pass	
	Microsoft Wheel Mouse Optical	PS/2	Windows 2000 AD Server	Pass	

Keyboard Devices					
Type	Model	Connect Interface	OS Environment	Status	Remark
PS/2	Microsoft Internet Keyboard	PS/2	Windows 2000 AD Server	Pass	
	Microsoft Natural Keyboard Pro	PS/2	Windows 2000 AD Server	Pass	
	Logitech Internet Keyboard	PS/2	Windows 2000 AD Server	Pass	
CD-R/RW Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
IDE	YAMAHA CRW8424E	IDE1 IDE2	Windows 2000 AD Server	Pass	
	ASUS CRW-1210R	IDE1 IDE2	Windows 2000 AD Server	Pass	
USB1.1	lomega ZIPCD1024EXT	USB1 2	Windows 2000 AD Server	Pass	
DVD-R.DVD-RW Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
IDE	Ricoh MP5120A	IDE1 2	Windows 2000 AD Server	Pass	
ZIP Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
IDE	lomega Z100 ATAP13	IDE1 IDE2	Windows 2000 AD Server	Pass	
	lomega Z250 ATAPI250	IDE1 IDE2	Windows 2000 AD Server	Pass	
USB 1.1	lomega Z250USBPCMBP	USB1 2	Windows 2000 AD Server	Pass	
Printer Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
USB 1.1	Epson Perfection 1640SU Photo	USB1 2	Windows 2000 AD Server	Pass	
Parallel	HP Deskjet 990cxi	LPT	Windows 2000 AD Server	Pass	

2.3 Field (Stress) Test

Test Type	Windows 2000 Advance Server Iometer Disk Stress Test		
Configuration	Intel Pentium 4-2000 768MB (DDR266 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 IBM IC35L120AVVA070 IDE2 Teac CD-540E Software RAID-5 Logitech Keyboard and Mouse		
Test Procedure	Run Iometer 1999.10.20 to stress RAID disk partitions		
Result	Pass	Duration	72 Hours
Test Type	Windows 2000 Advance Server Iometer Network Stress Test		
Configuration	Intel Pentium 4-2000 768MB (DDR266 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 IBM IC35L120AVVA070 IDE2 Teac CD-540E Logitech Keyboard and Mouse		
Test Procedure	Run Iometer 1999.10.20 to connect 5 clients for stressing BCM5703 gigabit NIC		
Result	Pass	Duration	72 Hours

Test Type	Windows 2000 Server C.C. Winstone Test		
Configuration	Intel Pentium 4-2400 768MB (DDR333 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 Maxtor D740X-6L IDE2 Teac CD-540E Logitech Keyboard and Mouse		
Test Procedure	Run C.C. Winstone 20002 CCWS test suite		
Result	Pass	Duration	50 times
Test Type	Windows 2000 Server System Winmark 2002 Test		

Configuration	Intel Pentium 4-2400 768MB (DDR333 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 Maxtor D740X-6L IDE2 Teac CD-540E Logitec Keyboard and Mouse		
Test Procedure	Run System Winmark 20002 all test suite		
Result	Pass	Duration	50 times

3 Microsoft Windows XP Operation System Test

3.1 Software Compatibility Test

Operation System Compatibility

O.S. Name	Version	Publisher	Status	Test Criteria
Windows XP Home	2002	Microsoft	Pass	Install all versions of windows NT, and ensure each version is setup successfully and necessary driver is installed. Follow by the testing on software and hardware device, all available connector, jumper, socket and slots are checked. This is to make sure the compatibility and functionality of these features is meet to the specific requirement
Windows 2000 XP Professional	2002	Microsoft	Pass	
Windows XP Home (Chinese Traditional)	2002	Microsoft	Pass	
Windows XP Professional (Chinese Traditional)	2002	Microsoft	Pass	

Application Software Compatibility

Image Processing					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
ACD See	V4.0	ACD system	WinXP Pro.	Pass	Install from CD-ROM, and Opening picture
Visio 2002	2002	Microsoft	WinXP Pro	Pass	Install, open sample file and edit it
Dreammeaver	V4.0	Macromedia	WinXP Home	Pass	Install, open sample file and edit it
Database Applications					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Borland dBase7	V7.0	Borland	WinXP Pro	Pass	Load from CD-ROM, and using capture and image edition function
SQL Server	V7.0	Microsoft	WinXP .Net Server	Pass	Build up SQL server, create and access data
Visual FoxPro	V6.0	Microsoft	WinXP Pro	Pass	Load a program file, Compile, Link, and Run this program
Utilities & Tools					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
PC Anywhere	V11.0	Symantec	WinXP Pro	Pass	Build up anywhere utility, remote access and control through network
Norton Antivirus	2003	Symantec	WinXP Pro	Pass	Executive virus checking
WinZip	V8.1	Nico Mak	WinXP Pro	Pass	Install, compress and run un-compress files

Integrated Applications / Project Management					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Project 2000	2000	Microsoft	WinXP Pro	Pass	Load a sample file and make organize project
Office XP	XP	Microsoft	WinXP Pro (Chinese Traditional)	Pass	Install from CD-ROM and execute PowerPoint, Excel, Schedule Plus, Word, Access application sample files open and save function
Office 2000	2000	Microsoft	WinXP Pro (Chinese Traditional)	Pass	Install from CD-ROM and execute PowerPoint, Excel, Schedule Plus, Word, Access application sample files open and save function
Programming Language / Compiler					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Visual Studio .Net	V7.0	Microsoft	WinXP Pro	Pass	Install from CD-ROM, Load Sample executive
Visual Basic	V6.0	Microsoft	WinXP Pro	Pass	Install from CD-ROM, Load Sample execute it
Visual C++	V6.0	Microsoft	WinXP Pro	Pass	Install from CD-ROM, Load Sample execute it
Visual InterDev	V6.0	Microsoft	WinXP Pro	Pass	Install from CD-ROM, Load Sample execute it
Communication / Remote Control / E-mail					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Microsoft Internet Explorer	V6.0	Microsoft	WinXP Pro	Pass	Down/Up load files via a FTP web server
Microsoft Outlook Express	V6.0	Microsoft	WinXP Pro	Pass	Receive/Send E-mail
Media Player					
Power DVD XP	V4.0	CyberLink	WinXP Pro	Pass	Open an existing DVD format CD from DVD-ROM, execute player with different size of windows open
Microsoft Media Player	V7.0	Microsoft	WinXP Pro	Pass	Open an existing DVD format CD from DVD-ROM, execute player with different size of windows open
WinDVD XP	V4.0	CyberLink	WinXP Pro	Pass	Open an existing DVD format CD from DVD-ROM, execute player with different size of windows open

Supporting Software Compatibility

Support CD				
Test Title	Version	Publisher	Status	Features Tested
Autorun Test	None	Akom	Pass	CD inserts or directly run Autorun program
Award Flash Test	V8.01	Award	Pass	Run flash.exe to update BIOS
SIS IDE Utility		SIS	Pass	Install utility and check all available functions
Hardware Monitor		Winbond	Pass	Install and check all available functions
Broadcom BACS		Broadcom	Pass	Install utility
HPT Management		HighPoint	Pass	Install utility and check all available functions
Brower CD	N/A	Akom	Pass	Brower directory, check any unsuitable content
Manual	N/A	Akom	Pass	Open manual. Check its content
Exit	N/A	Akom	Pass	Exit Autorun Menu

System Special Function Compatibility

Special Functions					
Package Name	Version	Publisher	OS Environment	Status	Features Tested
Direct Cable Connection	2000	Microsoft	Win XP Pro	Pass	Direct cable data transferring test via existing COM port, Parallel port
Windows 2000 System Suspend Test	2000	Akom	Win XP Pro	Pass	With existing Win2000, add auto suspend to startup field, aging overnight test
Windows 2000 System Rebooting	2000	Akom	Win XP Pro	Pass	With existing , add auto reboot to setup field, aging overnight test
Windows 2000 System Shut down	2000	Microsoft	Win XP Pro	Pass	Shut down O.S. and see its work normally
Windows 2000System Information Checking	2000	Microsoft	Win XP Pro	Pass	Check all items working pass under system, information listing
Multiple Language Support	2000	Microsoft	Win XP Pro	Pass	Implement multiple language installation on pure English edition
Service Pack	1	Microsoft	Win XP Pro	Pass	Implement service pack installation
Unattended Installation	2000	Microsoft	Win XP Pro	Pass	Implement unattended installation
Full loading DRAM	2000	Microsoft	Win XP Pro	Pass	Build up and aging system with full DRAM installed
Full loading IDE	2000	Microsoft	Win XP Pro	Pass	Build up and aging system with full PCI devices installed
Full loading USB	2000	Microsoft	Win XP Pro	Pass	Build up and aging system with full USB devices installed

System Tools and Strategy				
Type	Function	O.S. Environment	Status	Features Tested
Hard Disk	File system	Win XP Pro	Pass	Install Windows 2000 in any available file system
	Upgrade to Dynamic	Win XP Pro	Pass	Upgrade basic to dynamic HDD
	Disk Clear up	Win XP Pro	Pass	Clear unused system files
	Scandisk	Win XP Home	Pass	Scan and fix HDD error
	Defragment	Win XP Pro	Pass	HDD defragment
	Quota set	Win XP Pro	Pass	Set HDD using limit
	Compress drive	Win XP Pro	Pass	Compress files
	EFS	Win XP Pro	Pass	Encrypted files
Shut Down Control	Log off	Win XP Pro	Pass	Logging off current user
	Shut down	Win XP Pro	Pass	Shut down system
	Suspend	Win XP Pro	Pass	Suspending system
	Hibernate	Win XP Pro	Pass	Hibernating system
	Power key to shut down	Win XP Pro	Pass	Direct power key to shut down system
	Power key to suspend	Win XP Pro	Pass	Direct power key to suspending system
	K/B power key	Win XP Pro	Pass	Keyboard power key to shut down system
	K/B sleep key	Win XP Pro	Pass	Keyboard sleep key to suspend system
Timer Automatic work	Timer monitor off	Win XP Pro	Pass	Set timer to monitor off
	Timer HDD off	Win XP Pro	Pass	Set timer to HDD off
	Timer suspend system	Win XP Pro	Pass	Set timer to suspending system
	Timer hibernate system	Win XP Pro	Pass	Set timer to hibernating system
	Timer screen saver	Win XP Pro	Pass	Set timer to run screen saver
	Scheduled task	Win XP Home	Pass	Schedule timer to run task
System Upgrading	DC Promotion	Win XP Pro	Pass	Promote server to domain controller
Network services and Application	DNS	Win XP Pro	Pass	Install and run DNS
	Terminal service	Win XP Pro	Pass	Implement terminal service
	DHCP	Win XP Pro	Pass	Install and run DHCP
	WINS	Win XP Pro	Pass	Install and run WINS
	NAT	Win XP Pro	Pass	Implement NAT service
	DFS	Win XP Pro	Pass	Implement and run DFS

System Tools and Strategy					
Type	Function		O.S. Environment	Status	Features Tested
RAID Function	RAID-0		Win XP Pro	Pass	Implement RAID-0 function to combine IDE3 to IDE10 HDDs
	RAID-1		Win XP Pro	Pass	Implement RAID-1 to duplicate HDD
	RAID-5		Win XP Pro	Pass	Implement RAID-5 function to combine IDE3 to IDE10 HDDs
HPT372 Hot Swap	Hardware RAID	No RAID	Win XP Pro	Pass	Online Hot Swap HPT372 HDD
		RAID-1	Win XP Pro	Pass	Online Hot Swap HPT372 HDD and restore RAID-1
		RAID-0+1	Win XP Pro	Pass	O-line Hot Swap HPT372 HDD and restore RAID-0+1
	Software RAID	RAID-1	Win XP Pro	Pass	Online Hot Swap HPT372 HDD and restore RAID-1
		RAID-5	Win XP Pro	Pass	Online Hot Swap HPT372 HDD and restore RAID-5
	Hardware RAID + Software RAID	RAID-10	Win XP Pro	Pass	On=line Hot Swap HPT372 and restore RAID-10
ACPI BIOS Test					
Type	Test Item		O.S. Environment	Result	Features Tested
Timer Power Saving	Monitor off		Win XP Pro	Pass	Set timer for monitor off power saving
	HDD off		Win XP Pro	Pass	Set timer for HDD off power saving
	Standby		Win XP Pro	Pass	Set time for Standby power saving
Power Button	Power off in ACPI mode		Win XP Pro	Pass	The system soft off
	Stand by in ACPI mode		Win XP Pro	Pass	The system goes standby mode
Power work	Power supply fan		Win XP Pro	Pass	Check all available fan status while system entry S3
FAN work	All on board fan		Win XP Pro	Pass	Check all available fan status while system entry S3
External Signal to Wake up (S1)	ACPI wake on keyboard		Win XP Pro	Pass	Given a signal via Keyboard to wake up a standby system
	ACPI wake up on PS/2 Mouse		Win XP Pro	Pass	Given a signal via PS/2 Mouse to wake up a standby system
External Signal to Wake up (S3)	ACPI wake up on keyboard		Win XP Pro	Pass	Press power button to wake up a standby system

	ACPI wake up on PS/2 Mouse	Win XP Pro	Pass	Given a signal via Keyboard to wake up a standby system
	ACPI wake up on Power Button	Win XP Pro	Pass	Press power button to wake up a standby system
External Signal to Power up (S5)	ACPI power on keyboard	Win XP Pro	Pass	Given a signal via Keyboard to power up a standby system
	ACPI power on PS/2 Mouse	Win XP Pro	Pass	Given a signal via PS/2 Mouse to power up a standby system
	ACPI power on Power Button	Win XP Pro	Pass	Press power button to power up a standby system
Broadcom BACS Sever Function Test				
Type	Test Item	O.S. Environment	Result	Features Tested
Server Functions	Fail Over	Win XP Pro	Pass	Install 82559NIC to check if the functions work normally
	Link Aggregation	Win XP Pro	Pass	Install 82559NIC to check if the functions work normally
	VALN	Win XP Pro	Pass	Create VLAN to check if the function work normally
	Load Balance	Win XP Pro	Pass	Install 82559NIC to check if the functions work normally
	Trunking	Win XP Pro	Pass	Install 82559NIC to check if the functions work normally

3.2 Hardware Compatibility Test

System Device Functionality Test

IDE controller Mode detection					
Test Item	Version	Publisher	OS Environment	Status	Features Tested
IDE1	System	SIS	Win XP Pro	Pass	Check IDE1 mode detection
IDE2	System	SIS	Win XP Pro	Pass	Check IDE2 mode detection
IDE3	V2.32	HighPoint	Win XP Pro	Pass	Check IDE3 mode detection
IDE4	V2.32	HighPoint	Win XP Pro	Pass	Check IDE4 mode detection
IDE5	V2.32	HighPoint	Win XP Pro	Pass	Check IDE5 mode detection
IDE6	V2.32	HighPoint	Win XP Pro	Pass	Check IDE6 mode detection
IDE7	V2.32	HighPoint	Win XP Pro	Pass	Check IDE7 mode detection
IDE8	V2.32	HighPoint	Win XP Pro	Pass	Check IDE8 mode detection
IDE9	V2.32	HighPoint	Win XP Pro	Pass	Check IDE9 mode detection
IDE10	V2.32	HighPoint	Win XP Pro	Pass	Check IDE10 mode detection
IDE controller					
Test Item	HDD/CD-ROM	M/S	OS Environment	Status	
IDE1	Maxtor D740X-6L (ATA 133)	M	Win XP Pro	Pass	
IDE2	Lite-On LTN-163 (DVD 16X)	M	Win XP Pro	Pass	
IDE3	Seagate 340016A (ATA 100)	M	Win XP Pro	Pass	
IDE4	Maxtor D740X-6L (ATA 133)	M	Win XP Pro	Pass	
IDE5	IBM IC35L160AVVA070 (160G)	M	Win XP Pro	Pass	
IDE6	Seagate 320011A	M	Win XP Pro	Pass	
IDE7	IBM DTLA-307045	M	Win XP Pro	Pass	
IDE8	IBM IC35L120AVVA070 (120G)	M	Win XP Pro	Pass	
IDE9	WD 7200RPM 120G	M	Win XP Pro	Pass	
IDE10	WD 7200RPM 160G	M	Win XP Pro	Pass	

Addon device functionality and Capability

Graphic Adapters					
Type	Model	Driver Version	OS Environment	Status	Chipset
PCI	Lemel 6326	OS PnP	Win XP Pro	Pass	SIS6326
	Lemel 305	V3.0	Win XP Pro	Pass	SIS305
	Trident Blad3D	OS PnP	Win XP Pro	Pass	Blade 3D
100 Base Tx Ethernet Adapters					
Type	Model	Driver Version	OS Environment	Status	Chipset
PCI	Intel Pro 100	OS PnP	Win XP Pro	Pass	I82559
	Intel Pro100S	V6.1.3.0	Win XP Pro	Pass	I82550
	3C980C-TXM	V3.48.0.0	Win XP Pro	Pass	Broadcom
	Lemel RTL8139	V4.0.1.2	Win XP Pro	Pass	RTL8139C
	D-Link DFE-530TX	V2.66.0.290	Win XP Pro	Pass	Davicom DM9101F
	Accton EN1207F-TX	V1.12.10.16	Win XP Pro	Pass	Accton EN5251BE
	Buffalo LGY-PCI-TXL	V2.11.2000.5	Win XP Pro	Pass	MX MX98715AEC-E
SCSI Adapter					
Type	Model	Driver Version	OS Environment	Status	Chipset
PCI	Adaptec 2100S	V3.5.1	Win XP Pro	Pass	Adaptec
	Adaptec 3960D	V3.6.2.1	Win XP Pro	Pass	Adaptec
Floppy Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
Normal	NEC FD 123 H	FDD	Win XP Pro	Pass	
	Mitumi D353M3D	FDD	Win XP Pro	Pass	
	Panasonic JU-257A606P	FDD	Win XP Pro	Pass	
USB 1.1	Acer YD-8U10-01	USB1 2	Win XP Pro	Pass	
ISDN Modem Device					
Type	Model	Driver Version	OS Environment	Status	Remark
Serial	ZyXEL ISDN Terminal Adapter Omni TA 128	System	Win XP Pro	Pass	

Dial-Up Modem Device					
Type	Model	Driver Version	OS Environment	Status	Remark
Serial	Mitac E210	V1.01	Win XP Pro	Pass	
	GVC FM-56JT	V1.06b	Win XP Pro	Pass	
PCI	PCTel HSP56 Micro Modem	V7.65.0003.0	Win XP Pro	Pass	
USB 1.1	Mitac E500	V2.84.00	Win XP Pro	Pass	
Mouse Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
Serial	Logitech M-MM43	COM1, COM2	Win XP Pro	Pass	
	Microsoft Basic Mouse PS/2	COM1	Win XP Pro	Pass	
USB 1.1	Logitech M-BD53	USB1 2	Win XP Pro	Pass	
	Logitech M-BD58	USB1 2	Win XP Pro	Pass	
	Genius NetScroll+ NMU+P	USB1 2	Win XP Home	Pass	
	Microsoft IntelliMouse	USB1 2	Win XP Pro	Pass	
	Microsoft IntelliMouse Explorer	USB1 2	Win XP Pro	Pass	
	Microsoft IntelliMouse Optical	USB1 2	Win XP Pro	Pass	
PS/2	Logitech M-CAB48A	PS/2	Win XP Pro	Pass	
	Logitech M-S34	PS/2	Win XP Pro	Pass	
	Logitech M-S43	PS/2	Win XP Pro	Pass	
	Genius PS/2 Mouse	PS/2	Win XP Home	Pass	
	Microsoft Basic Mouse PS/2	PS/2	Win XP Pro	Pass	
	A4Tech WinEasy WWW-5	PS/2	Win XP Pro	Pass	
	Microsoft IntelliMouse	PS/2	Win XP Pro	Pass	
	Microsoft Wheel Mouse Optical	PS/2	Win XP Pro	Pass	

Keyboard Devices					
Type	Model	Connect Interface	OS Environment	Status	Remark
PS/2	Microsoft Internet Keyboard	PS/2	Win XP Pro	Pass	
	Microsoft Natural Keyboard Pro	PS/2	Win XP Pro	Pass	
	Logitech Internet Keyboard	PS/2	Win XP Pro	Pass	
CD-R/RW Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
IDE	YAMAHA CRW8424E	IDE1 IDE2	Win XP Pro	Pass	
	ASUS CRW-1210R	IDE1 IDE2	Win XP Pro	Pass	
USB1.1	lomega ZIPCD1024EXT	USB1 2	Win XP Pro	Pass	
DVD-R.DVD-RW Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
IDE	Ricoh MP5120A	IDE1 2	Win XP Pro	Pass	
ZIP Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
IDE	lomega Z100 ATAP13	IDE1 IDE2	Win XP Pro	Pass	
	lomega Z250 ATAPI250	IDE1 IDE2	Win XP Pro	Pass	
USB 1.1	lomega Z250USBPCMBP	USB1 2	Win XP Pro	Pass	
Printer Device					
Type	Model	Connect Interface	OS Environment	Status	Remark
USB 1.1	Epson Perfection 1640SU Photo	USB1 2	Win XP Pro	Pass	
Parallel	HP Deskjet 990cxi	LPT	Win XP Pro	Pass	

3.3 Field (Stress) Test

Test Type	Windows XP .Net Server Iometer Disk Stress Test		
Configuration	Intel Pentium 4-2000 768MB (DDR266 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 IBM IC35L120AVVA070 IDE2 Teac CD-540E Software RAID-5 Logitech Keyboard and Mouse		
Test Procedure	Run Iometer 1999.10.20 to stress RAID disk partitions		
Result	Pass	Duration	72 Hours
Test Type	Windows XP .Net Server Iometer Network Stress Test		
Configuration	Intel Pentium 4-2000 768MB (DDR266 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 IBM IC35L120AVVA070 IDE2 Teac CD-540E Logitech Keyboard and Mouse		
Test Procedure	Run Iometer 1999.10.20 to connect 5 clients for stressing BCM5703 gigabit NIC		
Result	Pass	Duration	72 Hours

Test Type	Windows XP Pro C.C. Winstone 2002 Test		
Configuration	Intel Pentium 4-2400 768MB (DDR333 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 Maxtor D740X-6L IDE2 Teac CD-540E Logitech Keyboard and Mouse		
Test Procedure	Run C.C. Winstone 20002 CCWS test suite		
Result	Pass	Duration	50 times
Test Type	Windows XP Pro System Winmark 2002 Test		
Configuration	Intel Pentium 4-2400 768MB (DDR333 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 Maxtor D740X-6L IDE2 Teac CD-540E Logitech Keyboard and Mouse		
Test Procedure	Run System Winmark 20002 all test suite		
Result	Pass	Duration	50 times

4 Linux Operation System Test

4.1 Software Compatibility Test

O.S. Name	Version	Publisher	Status	Test Criteria
RedHat Linux	V7.3	RedHat	Pass	Install different versions of Linux, and ensure each version is set up successfully. Follow by the testing on hardware device and make sure each device is functional and compatible
RedHat Linux	V8.0	RedHat	Pass	
RedHat Linux	V9.0	RedHat	Pass	

4.2 Hardware Compatibility Test

IDE controller Mode detection					
Test Item	Version	Publisher	OS Environment	Status	Features Tested
IDE1	System	SIS	Redhat V9.0	Pass	Check IDE1 mode detection
IDE2	System	SIS	Redhat V9.0	Pass	Check IDE2 mode detection
IDE3	V2.32	HighPoint	Redhat V9.0	Pass	Check IDE3 mode detection
IDE4	V2.32	HighPoint	Redhat V9.0	Pass	Check IDE4 mode detection
IDE5	V2.32	HighPoint	Redhat V9.0	Pass	Check IDE5 mode detection
IDE6	V2.32	HighPoint	Redhat V9.0	Pass	Check IDE6 mode detection
IDE7	V2.32	HighPoint	Redhat V9.0	Pass	Check IDE7 mode detection
IDE8	V2.32	HighPoint	Redhat V9.0	Pass	Check IDE8 mode detection
IDE9	V2.32	HighPoint	Redhat V9.0	Pass	Check IDE9 mode detection
IDE10	V2.32	HighPoint	Redhat V9.0	Pass	Check IDE10 mode detection
IDE controller					
Test Item	HDD/CD-ROM	M/S	OS Environment	Status	
IDE1	Maxtor D740X-6L (ATA 133)	M	Redhat V9.0	Pass	
IDE2	Lite-On LTN-163 (DVD 16X)	M	Redhat V9.0	Pass	
IDE3	Seagate 340016A (ATA 100)	M	Redhat V9.0	Pass	
IDE4	Maxtor D740X-6L (ATA 133)	M	Redhat V9.0	Pass	
IDE5	IBM IC35L160AVVA070 (160G)	M	Redhat V9.0	Pass	
IDE6	Seagate 320011A	M	Redhat V9.0	Pass	
IDE7	IBM DTLA-307045	M	Redhat V9.0	Pass	

IDE8	IBM IC35L120AVVA070 (120G)	M	Redhat V9.0	Pass	
IDE9	WD 7200RPM 120G	M	Redhat V9.0	Pass	
IDE10	WD 7200RPM 160G	M	Redhat V9.0	Pass	
SCSI Adapter					
Type	Model	Driver Version	OS Environment	Status	Chipset
PCI	Adaptec 2100S	Redhat V9.0	Redhat V9.0	Pass	Adaptec
	Adaptec 3960D	Redhat V9.0	Redhat V9.0	Pass	Adaptec

4.3 Field (stress) Test for Networking Environment

Test Type	RedHat Linux V7.3 Multitasking with network access test				
Configuration	Intel Pentium 4-2000 768MB (DDR266 SDRAM 256MB*3) IDE3 to IDE10 Seagate ST340016A IDE1 IBM IC35L120AVVA070 IDE2 Teac CD-540E Software RAID-5 Logitech Keyboard and Mouse				
Test Procedure	Run Multi Tasks Test, Ping, Telnet.....test				
Result	Pass		Duration	72 Hours	

Part C. Performance Measurement

Hardware Environment:

M/B: AK-SR7

PCB Version: V0.21

CPU: Intel Pentium 4-2000 MHz (100* 20), L2 Catch 512KB

DRAM: 512MB (DDR333 SDRAM) KingMax DDR333 PBGA

Storage controller: On-board IDE controller

RAID controller: On-board HPT372 RAID controller

Storage HDD: IDE Maxtor ATA133 7200RPM D740X-6L

VGA: Lemel SIS6326 8MB SDRAM

Pointer: Logitech PS/2 Optical Mouse

Keyboard: Logitech PS/2 keyboard

Software and BIOS environment:

BIOS Version: SR7_0.9

BIOS Setting: Optimized Defaults

VGA Driver Version: OS PnP

VGA Resolution: 800*600*32bit, 75 Hz refresh rate, small font

O.S.: Windows 2000 Advance Server/SP2

A. Disk I/O Performance Test

lometer 1999.10.20 (disk)

RAID-0

Access Specification Name		Workers	IOps	MBps	Average Response Time
64K	Sequential 100% Read	20	1599.08	99.94	12.50
512K	Sequential 100% Read	20	215.84	107.92	92.60
File Server	lometer 內建	20	586.46	6.34	34.09

RAID-5

Access Specification Name		Workers	IOps	MBps	Average Response Time
64K	Sequential 100% Read	20	1648.27	103.02	12.13
512K	Sequential 100% Read	20	203.50	101.75	98.28
File Server	lometer 內建	20	428.45	4.60	46.65

RAID-10 (Hardware RAID-1 + Software RAID-0)

Access Specification Name		Workers	IOPS	MBps	Average Response Time
64K	Sequential 100% Read	20	826.21	51.64	24.20
512K	Sequential 100% Read	20	196.28	98.14	101.84
File Server	Iometer 内建	20	580.87	6.30	34.42

ZD Winbench 99 V2.0 (Disk)

Software RAID 0 (8 Disks)

Disk Transfer Rate		High-End Disk Winmark	Business Disk Winmark
Beginning	End		
128000	126000	42600	13700

Software RAID 5 (8 Disks)

Disk Transfer Rate		High-End Disk Winmark	Business Disk Winmark
Beginning	End		
119000	116000	18500	6400

Hardware RAID 1 + Software RAID 0 (Total 8 Disks)

Disk Transfer Rate		High-End Disk Winmark	Business Disk Winmark
Beginning	End		
104000	102000	41900	19200

B. Network I/O Performance Test

Iometer 1999.10.20 (Network)

	I/Ops	Read I/Ops	Write I/Ops	MBps	Read MBps	Write MBps
2K-Sends	46090.40	0.00	46090.40	90.02	0.00	90.02
4K-Sends	26011.06	0.00	26011.06	101.61	0.00	101.61
8K-Sends	13603.01	0.00	13603.01	106.27	0.00	106.27
16K-Sends	6958.03	0.00	6958.03	108.72	0.00	108.72
32K-Sends	3525.05	0.00	3525.05	110.16	0.00	110.16
64K-Sends	1776.63	0.00	1776.63	111.04	0.00	111.04
128K-Sends	895.67	0.00	895.67	111.96	0.00	111.96
256K-Sends	450.86	0.00	450.86	112.72	0.00	112.72
2K-Receive	38095.87	38095.87	0.00	74.41	74.41	0.00
4K-Receive	25521.88	25521.88	0.00	99.69	99.69	0.00
8K-Receive	13558.27	13558.27	0.00	105.92	105.92	0.00
16K-Receive	6899.60	6899.60	0.00	107.81	107.81	0.00
32K-Receive	3606.27	3606.27	0.00	112.70	112.70	0.00
64K-Receive	1803.30	1803.30	0.00	112.71	112.71	0.00
128K-Receive	902.35	902.35	0.00	112.79	112.79	0.00
256K-Receive	451.81	451.81	0.00	112.95	112.95	0.00
2K-Mix	31589.43	15802.01	15787.42	61.70	30.86	30.83
4K-Mix	22803.40	11407.96	11395.44	89.08	44.56	44.51
8K-Mix	14772.91	7379.10	7393.82	115.41	57.65	57.76
16K-Mix	8531.79	4261.46	4270.33	133.31	66.59	66.72
32K-Mix	4385.77	2190.81	2194.96	137.06	68.46	68.59
64K-Mix	2174.59	1091.29	1083.31	135.91	68.21	67.71
128K-Mix	1081.21	542.69	538.52	135.15	67.84	67.31
256K-Mix	541.54	270.15	271.39	135.38	67.54	67.85

Server Configurations

CPU	Intel P4-2.0AG
M/B	AK-SR7 V0.21
RAM	512MB DDRRAM266 DIMM1
NIC	On board Broadcom BCM5703 A2
VGA	Sis6326 8MB SDRAM PCI Slot1
OS HD	Seagate 20G 7200RPM 2MB Catch

Client Configurations

Client 1	
CPU	Intel P4-1.4G
M/B	Abit BW7
RAM	256MB SDRAM PC-133 DIMM1
NIC	3Com 3C996 GbE
OS HD	IBM 45G 7200RPM 2MB Catch
Client 2	
CPU	Intel P4-1.6AG
M/B	Abit BL7
RAM	256MB SDRAM PC-133 DIMM1
NIC	Akom BCM5701 GbE
OS HD	IBM 40G 7200 RPM 2MB Catch
Client 3	
CPU	Intel P4-1.4G
M/B	Abit TH7
RAM	256MB RDRAM PC-800 SIMM1 SIMM2
NIC	Intel PRO/1000 T
OS HD	Seagate 40G 7200RPM 2MB Catch
Client 4	
CPU	Intel P4-1.4G
M/B	Abit BW7
RAM	256MB SDRAM PC-133 DIMM1
NIC	Intel PRO/1000 T
OS HD	Seagate 40G 7200RPM 2MB Catch

Client 5	
CPU	Intel P4-1.5G
M/B	Abit TH7-II
RAM	256MB RDRAM SIMM1 SIMM2
NIC	Intel PRO/1000 T
OS HD	Seagate 20G 7200RPM 2MB Catch

Switch Configuration

Vendor	3Com
Model	SuperStack 3 Baseline Gigabit Switch
Media	Copper Gigabit Connections (Cat 5E)

Software Configuration

OS	Windows 2000 Advance Server/SP2
Test Tool	Intel Iometer 1999.10.20

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