



Tekram Technology Co., Ltd.

Test Report

Product Name : DC-602W
Test Report Date : Dec-10-2001
Test Report Version : A
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Report Version History

Version	Date	Description
A	Dec-10-2001	First Release.

Test Environment

OS	Driver Version	Driver Date	Remark
Win98se	1.034	Nov-09-2001	
WinME	1.034	Nov-09-2001	
WinNT	N/A	N/A	
Win2000	1.034	Nov-09-2001	
WinXP	1.034	Nov-09-2001	

A.PRODUCT SPEC & BASIC FUNCTION TEST

A1. Product Spec

Features	<ul style="list-style-type: none"> • Compliant with Universal Serial Bus Specification Revision 2.0 (Data Rate 1.5/12.0/480.0 Mbps). • Compliant with Open Host Controller Interface Specification for USB Rev 1.0a. • PCI multi-function device consists of two OHCI Host Controller cores for full/ low-speed signaling and one EHCI Host Controller cores for high-speed signaling. • Root Hub with multiple downstream forcing ports which are shared by OHCI and EHCI Host Controller core. • All downstream forcing ports can handle high-speed (480.0 Mbps), full-speed (12.0 Mbps), and low-speed (1.5 Mbps) transaction. • 32-bit 33 MHz host interface compliant to PCI Specification Release 2.2. • Support PCI-Bus Power Management Interface Specification Release 1.1. • PCI Bus bus-master access.
Protocols Supported	1.0 1.1 2.0
Processor	NEC
External Connector	4 + 1 internal
Max Transfer Rate	1.5 / 12 / 480 Mbit/s
Max Devices	127
Product Description:	<p>Tekram's USB 2.0 Host Adapter is very simple for consumer usage. It is the no-hassle, "plug and play" solution for connecting up to 127 individual USB peripherals at one time. The USB 2.0 Host Adapter complies with the Universal Serial Bus Specification Revision 2.0 and Open Host Controller Interface Specification for full-/ low-speed signaling and Intel's Enhanced Host Controller Interface Specification for high-speed signaling and works up to 480 Mbps.</p> <p>The USB 2.0 Host Adapter is integrated multiple Host Controller cores with PCI Interface and USB 2.0 transceivers into a single chip.</p> <p>The USB 2.0 Host Adapter is designed for maximum compatibility.</p> <p>From the thousands of currently available USB 1.1 devices to the new high-performance USB 2.0 peripherals, the USB 2.0 Host Adapter is compatible with today's most popular peripherals and tomorrow's exciting new ones.</p>

A2. Basic Function Test

Test Item	Description	Result	Remark
A1a	Product Model Name Check	Pass	
A2b	CHECK PCBA Construction and Appearance	Pass	
A2c	Check the LOGO and Model of the chipset	Pass	Chipset : NEC D720100GM
A2d	Check PCI List information	Pass	

B. FUNCTIONALITY & COMPATIBILITY TEST

B1. Functionality & Operation System Test

OS \ PORTs	Port1		Port2		Port3		Port4		Port5		Remark
	V1.1	V2.0	V1.1	V2.0	V1.1	V2.0	V1.1	V2.0	V1.1	V2.0	
Win98SE	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
WinME	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
Win 2000	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	
Win XP	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	Pass	

*V1.1: Universal Serial Bus Specification Revision 1.1((Data Rate 1.5/12.0Mbps).

*V2.0: Universal Serial Bus Specification Revision 2.0((Data Rate 1.5/12.0/480Mbps)

B2. USB DEVICE TEST

Device Type	Vendor	Model	Operation System	Port1	Port2	Port3	Port4	Port5	Remark
Keyboard	Sun race	JME-7152	Win2000	Pass	Pass	Pass	Pass	Pass	
USB IR	Tekram	IR-410U	Win2000	Pass	Pass	Pass	Pass	Pass	
USB camera	logitech	Vcam-u1	Win2000	Pass	Pass	Pass	Pass	Pass	
Usb mouse	Logitech	m-be58	Win2000	Pass	Pass	Pass	Pass	Pass	
Usb SPEAKER	3NOD	SR-780u	Win 2000	Pass	Pass	Pass	Pass	Pass	
Usb printer	Epson	Epl-5700l	Win 2000	Pass	Pass	Pass	Pass	Pass	
USB2.0 HDD Box	SKYMASTER	Del-0231	Win 2000	Pass	Pass	Pass	Pass	Pass	

B3.Full Loading

Operation System	Port1	Port2	Port3	Port4	Port5	Result	Remark
Win 2000	V2.0	V1.1	V1.1	V1.1	V1.1	Pass	
Win 2000	V1.1	V2.0	V1.1	V1.1	V1.1	Pass	
Win 2000	V1.1	V1.1	V2.0	V1.1	V1.1	Pass	
Win 2000	V1.1	V1.1	V1.1	V2.0	V1.1	Pass	
Win 2000	V1.1	V1.1	V1.1	V1.1	V2.0	Pass	

* V1.1: Universal Serial Bus Specification Revision 1.1((Data Rate 1.5/12.0Mbps).

**V2.0: Universal Serial Bus Specification Revision 2.0((Data Rate 1.5/12.0/480Mbps)

C.COMPATIBILITY TEST

C1.MAIN BOARD

Manufacturer	MODEL	Chipset	BIOS	CPU Type	Result	Remark
盤英	EP-MVP4A	VIA Vt8501&Vt82c686a	1.0A	AMD-K6-2/450	Pass	
ASUS	TUSL2-M	INTEL FW82815&FW82801BA	1009A	PIII550	Pass	
MSI	MS 6337	INTEL FW82815&FW82801BA	1.4	PIII550	Pass	
GIGABYTE	GA-60XET	INTEL FW82815&FW82801BA	1.600	PIII550	Pass	

C2.SOUND CARD

Sound Card Type/Mode	OS Version	Result	Remark
Creavite sb live	Windows 2000	Pass	
Board sigmatel AC97	Windows 2000	Pass	

C3.VGA CARD

Manufacturer /Model	OS Version	Result	Remark
SIS 6326	Windows 2000	Pass	
ATI 264vt2	Windows 2000	Pass	
INTEL I740	Windows 2000	Pass	
ASUS V6600	Windows 2000	Pass	

C4.SCSI CARD

Manufacturer /Model	OS Version	Result	Remark
TEKRAM DC390U3D	Windows 2000	Pass	
TEKRAM DC390U3W	Windows 2000	Pass	
ADAPTEC 29160	Windows 2000	Pass	

C5.LAN CARD

Manufacturer /Model	OS Version	Result	Remark
D-LINK 530-TX	Windows 2000	Pass	
Intel 82559	Windows 2000	Pass	

D.Operation System Test

OS	Language	Result	Remark
Windows 98Se	English	Pass	
	German	Pass	
	Japanese	Pass	
	Chinese(Taiwan)	Pass	
	Chinese(Simples)	Pass	
Windows ME	English	Pass	
	German	Pass	
	Japanese	Pass	
	Chinese(Taiwan)	Pass	
	Chinese(Simples)	Pass	
Windows 2000	English	Pass	
	German	Pass	
	Japanese	Pass	
	Chinese(Taiwan)	Pass	
	Chinese(Simples)	Pass	
Windows XP	English	Pass	
	German	Pass	
	Japanese	Pass	
	Chinese(Taiwan)	Pass	
	Chinese(Simples)	Pass	

Test Environment

Test Environment	Manufacturer	Model	Bios	Chipset	CPU Type
Mother Board	ASUS	TUSL2-M	1009A	INTEL FW82815&FW82801BA	PIII 550
IDE Hard Disk	IBM IC35L04AVER07-0 41GB		WD100BB-32AUI 10GB		
DRAM	HY 256MB PC133				
IDE CD-ROM	ASUS 50X				
VGA Card	NVIDIA-TNT2 M64				
Power	GREAT WALL ATX				

E. Benchmark Test

E1. IO-Meter (PORT 1)

Vendor / Model	Access Specification Name	Workers	IOps	MBps	Average Response Time	Maximum Response Time	% CPU Utilization
DC-602W	8K Sequential Write	10	1295.8	10.1	7.7	157.9	21.3
	8K Sequential Read	10	1332.8	10.4	7.4	731.6	20.9
	8K Random Write	10	112.7	0.9	85.7	20875.3	4.9
	8K Random Read	10	123.5	1.0	78.3	19484.0	4.6
	16K Sequential Write	10	866.1	13.5	11.5	110.8	14.1
	16K Sequential Read	10	883.1	13.8	11.3	622.2	14.8
	16K Random Write	10	106.6	1.7	87.7	13713.2	4.1
	16K Random Read	10	117.4	1.8	82.0	14368.4	4.4
	32K Sequential Write	10	490.1	15.3	20.4	1415.1	10.1
	32K Sequential Read	10	505.4	15.8	19.8	3594.0	9.8
	32K Random Write	10	103.8	3.2	76.1	22120.6	5.4
	32K Random Read	10	105.8	3.3	83.6	14655.1	4.3
	64K Sequential Write	10	282.2	17.6	33.8	9661.4	7.0
	64K Sequential Read	10	285.3	17.8	33.3	3542.7	7.0
	64K Random Write	10	95.2	6.0	89.8	10679.7	4.1
	64K Random Read	10	88.5	5.5	69.8	17727.8	4.4
	128K Sequential Write	10	141.3	17.7	68.0	12434.8	6.3
	128K Sequential Read	10	141.6	17.7	69.4	13766.3	5.8
	128K Random Write	10	59.7	7.5	113.1	14046.7	4.6
	128K Random Read	10	60.8	7.6	89.3	10108.6	4.6
	256K Sequential Write	10	70.8	17.7	138.8	13339.9	6.3
	256K Sequential Read	10	59.4	14.8	140.3	13533.0	5.6
	256K Random Write	10	40.9	10.2	149.5	28505.3	4.4
	256K Random Read	10	30.9	7.7	145.4	10486.4	4.1
	512K Sequential Write	10	35.4	17.7	263.8	12411.0	5.9
	512K Sequential Read	10	32.9	16.4	267.9	12867.9	5.6
	512K Random Write	10	22.8	11.4	194.5	19179.3	4.6
	512K Random Read	10	25.6	12.8	185.6	8002.3	4.7
1M Sequential Write	10	17.7	17.7	473.5	10784.5	5.9	
1M Sequential Read	10	17.1	17.1	546.0	13929.4	5.7	
1M Random Write	10	12.0	12.0	531.8	27996.2	5.0	
1M Random Read	10	12.2	12.2	399.3	25385.9	4.9	

E2. IO-Meter (PORT 2)

Vendor / Model	Access Specification Name	Workers	IOps	MBps	Average Response Time	Maximum Response Time	% CPU Utilization
DC-602W	8K Sequential Write	10	1290.9	10.1	7.7	386.4	19.9
	8K Sequential Read	10	1362.4	10.6	7.3	189.6	21.3
	8K Random Write	10	109.6	0.9	76.0	12808.1	4.5
	8K Random Read	10	121.6	0.9	68.0	14539.4	4.3
	16K Sequential Write	10	866.0	13.5	11.5	667.9	13.9
	16K Sequential Read	10	885.1	13.8	11.3	745.6	15.7
	16K Random Write	10	107.1	1.7	69.2	15735.3	4.8
	16K Random Read	10	115.5	1.8	78.2	11895.4	4.3
	32K Sequential Write	10	490.3	15.3	20.4	1405.9	9.1
	32K Sequential Read	10	511.5	16.0	19.5	1406.0	8.8
	32K Random Write	10	96.5	3.0	86.1	15418.7	4.8
	32K Random Read	10	104.8	3.3	83.9	18105.0	4.2
	64K Sequential Write	10	282.9	17.7	33.7	108.6	7.3
	64K Sequential Read	10	284.9	17.8	33.4	4921.5	7.3
	64K Random Write	10	83.7	5.2	90.2	25715.5	4.3
	64K Random Read	10	89.0	5.6	89.3	16968.4	4.4
	128K Sequential Write	10	141.6	17.7	69.6	13270.9	6.4
	128K Sequential Read	10	131.7	16.5	71.8	14259.0	5.8
	128K Random Write	10	58.9	7.4	120.6	20950.3	4.1
	128K Random Read	10	59.8	7.5	100.0	17038.3	4.3
	256K Sequential Write	10	70.9	17.7	139.3	13329.7	6.1
	256K Sequential Read	10	64.9	16.2	129.5	12529.8	6.3
	256K Random Write	10	39.6	9.9	150.9	19613.1	4.5
	256K Random Read	10	29.9	7.5	172.1	21707.2	4.4
	512K Sequential Write	10	35.3	17.7	259.8	3845.5	5.9
	512K Sequential Read	10	31.6	15.8	266.4	14033.9	5.5
	512K Random Write	10	22.1	11.0	219.6	17676.3	4.8
	512K Random Read	10	20.5	10.2	390.5	21606.4	4.4
1M Sequential Write	10	17.8	17.8	528.6	13431.1	5.9	
1M Sequential Read	10	16.0	16.0	511.6	14802.3	5.3	
1M Random Write	10	11.4	11.4	433.5	14871.2	4.6	
1M Random Read	10	14.0	14.0	285.8	18350.7	5.4	

E3. IO-Meter (PORT 3)

Vendor / Model	Access Specification Name	Workers	IOps	MBps	Average Response Time	Maximum Response Time	% CPU Utilization
DC-602W	8K Sequential Write	10	1286.8	10.1	7.7	682.7	20.0
	8K Sequential Read	10	1326.9	10.4	7.5	886.9	21.4
	8K Random Write	10	113.1	0.9	72.6	16416.2	4.8
	8K Random Read	10	122.0	1.0	69.9	25607.9	5.1
	16K Sequential Write	10	861.1	13.5	11.6	463.2	14.6
	16K Sequential Read	10	875.9	13.7	11.4	1182.4	14.3
	16K Random Write	10	104.7	1.6	64.6	26280.7	4.8
	16K Random Read	10	117.9	1.8	71.4	6302.2	4.8
	32K Sequential Write	10	490.2	15.3	20.4	1226.4	10.4
	32K Sequential Read	10	513.9	16.1	19.4	1019.7	10.0
	32K Random Write	10	94.6	3.0	93.3	23541.9	3.9
	32K Random Read	10	107.8	3.4	69.5	12789.0	4.4
	64K Sequential Write	10	282.3	17.6	35.4	5635.5	7.2
	64K Sequential Read	10	274.4	17.1	34.7	5891.1	6.7
	64K Random Write	10	80.7	5.0	85.3	18379.9	4.0
	64K Random Read	10	108.3	6.8	65.8	21130.1	4.3
	128K Sequential Write	10	141.4	17.7	67.4	12632.7	6.4
	128K Sequential Read	10	140.6	17.6	70.1	13978.5	5.6
	128K Random Write	10	59.9	7.5	104.6	18340.7	4.3
	128K Random Read	10	60.7	7.6	94.2	19312.5	4.3
	256K Sequential Write	10	70.8	17.7	131.4	11696.1	6.4
	256K Sequential Read	10	61.0	15.3	136.2	13502.6	5.7
	256K Random Write	10	38.7	9.7	170.1	24464.6	4.6
	256K Random Read	10	30.6	7.6	171.4	21563.5	4.2
	512K Sequential Write	10	35.3	17.7	228.7	11731.8	6.3
	512K Sequential Read	10	32.6	16.3	264.1	11278.5	6.0
	512K Random Write	10	22.5	11.3	265.8	15877.8	4.7
	512K Random Read	10	24.0	12.0	265.0	20861.6	5.0
	1M Sequential Write	10	17.6	17.6	487.9	13645.0	5.6
	1M Sequential Read	10	16.4	16.4	513.9	15507.2	5.7
	1M Random Write	10	11.7	11.7	450.1	21500.5	4.9
	1M Random Read	10	13.1	13.1	498.5	21460.1	5.2

E4. IO-Meter (PORT 4)

Vendor / Model	Access Specification Name	Workers	IOps	MBps	Average Response Time	Maximum Response Time	% CPU Utilization
DC-602W	8K Sequential Write	10	1289.9	10.1	7.7	224.1	19.8
	8K Sequential Read	10	1341.4	10.5	7.4	899.6	20.7
	8K Random Write	10	108.5	0.8	66.7	17363.1	4.1
	8K Random Read	10	123.2	1.0	74.6	11936.3	4.6
	16K Sequential Write	10	863.1	13.5	11.6	198.2	15.5
	16K Sequential Read	10	884.2	13.8	11.3	1027.9	14.9
	16K Random Write	10	103.3	1.6	87.4	16015.5	4.2
	16K Random Read	10	115.3	1.8	74.0	20478.0	4.3
	32K Sequential Write	10	490.2	15.3	20.4	1180.1	11.8
	32K Sequential Read	10	507.0	15.8	19.7	3623.5	9.8
	32K Random Write	10	95.4	3.0	100.3	24176.4	4.8
	32K Random Read	10	107.4	3.4	82.2	18055.8	4.4
	64K Sequential Write	10	282.8	17.7	33.7	83.6	6.9
	64K Sequential Read	10	269.0	16.8	35.4	8945.5	6.6
	64K Random Write	10	81.3	5.1	84.0	17579.2	4.2
	64K Random Read	10	89.2	5.6	81.9	14181.1	4.4
	128K Sequential Write	10	141.3	17.7	68.6	12644.1	6.3
	128K Sequential Read	10	135.6	16.9	68.6	13463.0	6.0
	128K Random Write	10	59.2	7.4	86.4	6918.0	4.6
	128K Random Read	10	61.1	7.6	103.8	26471.5	4.3
	256K Sequential Write	10	70.7	17.7	132.9	8686.9	6.2
	256K Sequential Read	10	62.6	15.7	134.8	12244.9	5.7
	256K Random Write	10	39.0	9.8	111.1	12960.8	4.8
	256K Random Read	10	32.8	8.2	171.4	16213.3	4.2
	512K Sequential Write	10	35.3	17.7	237.0	12238.0	6.0
	512K Sequential Read	10	32.8	16.4	284.8	12841.3	5.7
	512K Random Write	10	21.3	10.7	309.4	21092.6	4.7
	512K Random Read	10	19.7	9.8	371.1	20118.6	4.8
	1M Sequential Write	10	17.7	17.7	515.5	11734.3	5.8
	1M Sequential Read	10	16.2	16.2	457.4	14091.1	6.2
	1M Random Write	10	18.5	18.5	335.4	16053.0	5.1
	1M Random Read	10	13.4	13.4	484.3	23247.8	5.1

E5. IO-Meter (PORT 5)

Vendor / Model	Access Specification Name	Workers	IOps	MBps	Average Response Time	Maximum Response Time	% CPU Utilization
DC-602W	8K Sequential Write	10	1288.9	10.1	7.7	841.7	20.2
	8K Sequential Read	10	1342.4	10.5	7.4	945.9	21.8
	8K Random Write	10	112.1	0.9	73.5	9962.2	5.1
	8K Random Read	10	123.2	1.0	74.5	9052.0	4.8
	16K Sequential Write	10	864.9	13.5	11.5	65.6	13.7
	16K Sequential Read	10	882.7	13.8	11.3	1226.8	14.7
	16K Random Write	10	105.0	1.6	75.1	12853.7	4.1
	16K Random Read	10	115.6	1.8	71.2	12445.5	4.5
	32K Sequential Write	10	490.4	15.3	20.4	1415.6	9.2
	32K Sequential Read	10	512.5	16.0	19.5	2152.1	10.0
	32K Random Write	10	97.2	3.0	89.6	7716.9	5.7
	32K Random Read	10	106.2	3.3	67.8	19171.3	4.3
	64K Sequential Write	10	282.2	17.6	35.4	2699.4	7.3
	64K Sequential Read	10	287.6	18.0	34.7	3136.9	7.8
	64K Random Write	10	82.5	5.2	73.3	12754.8	3.9
	64K Random Read	10	88.8	5.5	79.4	16267.9	4.2
	128K Sequential Write	10	141.5	17.7	67.4	2716.0	6.5
	128K Sequential Read	10	142.8	17.9	68.7	13554.5	6.5
	128K Random Write	10	60.2	7.5	113.7	14825.1	4.5
	128K Random Read	10	63.9	8.0	99.2	17490.1	5.0
	256K Sequential Write	10	70.9	17.7	137.4	7316.9	6.1
	256K Sequential Read	10	62.6	15.6	125.0	10810.2	5.9
	256K Random Write	10	39.2	9.8	150.7	21715.0	4.7
	256K Random Read	10	34.5	8.6	159.7	25786.3	4.4
	512K Sequential Write	10	35.5	17.8	266.8	3592.2	6.1
	512K Sequential Read	10	33.6	16.8	287.7	12713.8	6.6
	512K Random Write	10	23.2	11.6	277.8	18968.9	4.6
	512K Random Read	10	19.1	9.6	302.3	17625.8	4.9
	1M Sequential Write	10	17.7	17.7	527.5	15273.3	5.4
	1M Sequential Read	10	16.8	16.8	512.2	9294.7	6.8
	1M Random Write	10	11.7	11.7	509.0	19611.6	6.2
	1M Random Read	10	15.1	15.1	234.0	11716.1	4.9

Test Environment

Test Environment	Manufacturer	Model	Bios	Chipset	CPU Type
Mother Board	ASUS	TUSL2-M	1009A	INTEL FW82815&FW82801BA	PEM TIUM III 550MHZ
IDE Hard Disk	IBM IC35L04AVER07-0 41GB		WD100BB-32AUA I 10GB		
DRAM	HY 256MB PC133				
VGA Card	ASUS 50X				
Power	NVIDIA-TNT2 M64				

F.USB2.0 and USB1.1 Compare(USB HardDisk)**F1.Run WinBench99 V2.0(USB1.1&USB 2.0)**

Item	Bench Mark	Result	
		Usb 1.1	Usb 2.0
1	Business Disk WinMark 99	2060	6200
2	Disk Access Time	17.1	14.5
3	Disk CPU Utilization	3.98	3.7
4	Disk Playback/Bus:Overall	2060	6200
5	Disk Playback/HE:AVS/Express 3.4	2110	13000
6	Disk Playback/HE:FrontPage 98	61000	101000
7	Disk Playback/HE:MicroStation SE	4660	23500
8	Disk Playback/HE:Overall	2000	15200
9	Disk Playback/HE:Photoshop 4.0	859	6970
10	Disk Playback/HE:Premiere 4.2	1340	14200
11	Disk Playback/HE:Sound Forge 4.0	1760	18400
12	Disk Playback/HE:Visual C++ 5.0	3220	16300
13	Disk Playback/Removable Media	773	3940
14	Disk Transfer Rate:Beginning	1060	19600
15	Disk Transfer Rate:End	1060	13500
16	High-End Disk WinMark 99	2000	15200

F2.Run Iometer(USB1.1&USB2.0)

		USB 1.1			USB 2.0		
Vendor / Model	Access Specification Name	MBps	Average Response Time	% CPU Utilization	MBps	Average Response Time	% CPU Utilization
DC-602W	8K Sequential Write	0.8	58.6	5.2	10.1	7.7	20.2
	8K Sequential Read	0.8	54.4	6.9	10.5	7.4	21.8
	8K Random Write	0.7	87.8	5.9	0.9	73.5	5.1
	8K Random Read	0.5	73.7	4.7	1.0	74.5	4.8
	16K Sequential Write	0.9	97	6.7	13.5	11.5	13.7
	16K Sequential Read	0.9	87.8	6.6	13.8	11.3	14.7
	16K Random Write	0.9	107.1	6.7	1.6	75.1	4.1
	16K Random Read	0.6	125.4	5.3	1.8	71.2	4.5
	32K Sequential Write	1	168.7	6.1	15.3	20.4	9.2
	32K Sequential Read	0.9	148.4	6.2	16.0	19.5	10.0
	32K Random Write	1	171.9	1	3.0	89.6	5.7
	32K Random Read	0.7	245.9	5.6	3.3	67.8	4.3
	64K Sequential Write	1.7	200	6.4	17.6	35.4	7.3
	64K Sequential Read	1.6	222.2	5.7	18.0	34.7	7.8
	64K Random Write	1.1	332.9	6.4	5.2	73.3	3.9
	64K Random Read	0.9	339.5	6	5.5	79.4	4.2
	128K Sequential Write	1	651.2	6.1	17.7	67.4	6.5
	128K Sequential Read	1	713.9	6.2	17.9	68.7	6.5
	128K Random Write	1.1	614.9	6.4	7.5	113.7	4.5
	128K Random Read	0.9	941.1	5.9	8.0	99.2	5.0
	256K Sequential Write	1.1	1433.1	6.4	17.7	137.4	6.1
	256K Sequential Read	1	1415.3	6.4	15.6	125.0	5.9
	256K Random Write	1.1	1275.8	6.5	9.8	150.7	4.7
	256K Random Read	0.9	1117.5	5.9	8.6	159.7	4.4
	512K Sequential Write	1.4	2446.3	6.4	17.8	266.8	6.1
	512K Sequential Read	1.1	2740	6	16.8	287.7	6.6
	512K Random Write	1	2089	6.1	11.6	277.8	4.6
	512K Random Read	1.3	1563.5	6.2	9.6	302.3	4.9
1M Sequential Write	1.5	3882.3	6.4	17.7	527.5	5.4	
1M Sequential Read	1.2	4334.9	5.8	16.8	512.2	6.8	
1M Random Write	0.6	3373.5	6.6	11.7	509.0	6.2	
1M Random Read	0.7	4011.7	6.3	15.1	234.0	4.9	

G. Reliability TEST

G1. Run WinBench99 (Disk) 75 Hours

ITEM	Port	Run Times	Operation System	Result	Remark
Run WinBench99	Port1	15 Hours	Win2000	Pass	
Run WinBench99	Port2	15 Hours	Win2000	Pass	
Run WinBench99	Port3	15 Hours	Win2000	Pass	
Run WinBench99	Port4	15 Hours	Win2000	Pass	
Run WinBench99	Port5	15 Hours	Win2000	Pass	

G2. Run Iometer 75 Hours

ITEM	Port	Run Times	Operation System	Result	Remark
Run Iometer	Port1	15 Hours	Win2000	Pass	
Run Iometer	Port2	15 Hours	Win2000	Pass	
Run Iometer	Port3	15 Hours	Win2000	Pass	
Run Iometer	Port4	15 Hours	Win2000	Pass	
Run Iometer	Port5	15 Hours	Win2000	Pass	