

# Product Test Report



<b>Product Name</b>	<b>MS-C72</b>
<b>Product Version</b>	<b>B</b>
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# 1.Function test

## 1.1 Hardware function

### Base Function Test

Item	Description	Result
1	Power Button	PASS
2	Reset	PASS
3	Power LED	PASS
4	HDD LED	PASS
5	SATA 1/2/3/4/5/6	PASS
6	USB 1/2/3/4/5/6/7/8/9/10	PASS
7	DDRIII A1/A2/B1/B2	PASS
8	COM 1/2/3/4/5/6	PASS
9	VGA Port	PASS
10	Floppy	PASS
11	DVI	PASS
12	PS2	PASS
13	AUDIO	PASS
14	CN_AUDIO	PASS
15	CD_IN	PASS
16	DIO	PASS
17	CPUFAN	PASS
18	SYSFAN	PASS
19	PCIE 1x / 4x / 16x	PASS
20	PCI 1/2	PASS
21	MINI PCI	PASS
22	MINI CARD	PASS

23	LAN 1/2	PASS
24	CN_LPT	PASS
25	IrDA	PASS
26	SPDIF	PASS

### Jumper

Item	Description	Result
1	JRTC	PASS
2	JAT	PASS
3	JCSEL1	PASS
4	JCSEL2	PASS

## 1.2 BIOS function

Item	Description	Result	Remark
1	Press 'Del' to run Setup Utility	PASS	
2	Ctrl-Alt-Del – Soft-Reboot	PASS	
3	Exit Saving Changes	PASS	
4	Date & Time Setting	PASS	
5	Halt On	PASS	
6	Boot Device Setting	PASS	
7	HD Audio	PASS	
8	Legacy Diskette A	PASS	
9	Floppy Disk Controller	PASS	
10	Onboard Serial Port	PASS	
11	Serial Port 2 IR Mode	PASS	
12	Default Primary Video Adapter	PASS	
13	LAN 1/2 Controller	PASS	
14	Onboard LAN 1/2 Boot PXE ROM	PASS	
15	IGD-Memory Size	PASS	
16	Disable ACPI _Sx	PASS	
17	Console Redirection	PASS	
18	Watch Dog Timer Select	PASS	
19	Set Supervisor Password	PASS	
20	Set User Password	PASS	
21	Legacy USB Support	PASS	
22	SATA Mode Selection	PASS	

## 1.3 Driver

### CD Edition : ICPI 3-1.0

#### 1. Windows XP SP2 Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	9.1.1.1025
2	VGA Driver	PASS	6.14.10.5248
3	Audio Driver	PASS	5.10.0.6101
4	LAN Driver	PASS	10.3.49.0

#### 2. Windows Server 2003 Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	9.1.1.1025
2	Audio Driver	PASS	5.10.0.6101
3	LAN Driver	PASS	10.3.49.0

#### 3. Windows Vista 32-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	9.1.1.1025
2	VGA Driver	PASS	8.15.10.2104
3	Audio Driver	PASS	6.0.1.6101
4	LAN Driver	PASS	10.3.49.0

#### 4. Windows Vista 64-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	9.1.1.1025
2	VGA Driver	PASS	8.15.10.2104
3	Audio Driver	PASS	6.0.1.6101
4	LAN Driver	PASS	10.3.49.0



#### 5. Windows Server 2008 32-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	9.1.1.1025
2	Audio Driver	PASS	6.0.1.6101
3	LAN Driver	PASS	10.3.49.0

#### 6. Windows Server 2008 64-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	9.1.1.1025
2	Audio Driver	PASS	6.0.1.6101
3	LAN Driver	PASS	10.3.49.0

#### 7. Windows 7 32-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	9.1.1.1025
2	VGA Driver	PASS	8.15.10.2104
3	Audio Driver	PASS	6.0.1.6101

#### 8. Windows 7 64-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	9.1.1.1025
2	VGA Driver	PASS	8.15.10.2104
3	Audio Driver	PASS	6.0.1.6101

## 2. Compatibility test

### 2.1 CPU Test

Test environment:

OS Windows XP professional SP2

Test program : PC MARK 2005

Spec	CPU Speed	Family	Processor	DMI	Smart Cache	Result
<a href="#">SLBMQ</a>	3.06 GHz	Core	i3-540	2.5 GT/s	4MB	PASS
<a href="#">SLBLC</a>	2.66 GHz	Core	i5-750	2.5 GT/s	8MB	PASS
<a href="#">SLBJJ</a>	2.8 GHz	Core	i7-860	2.5 GT/s	8MB	PASS
<a href="#">SLBMS</a>	2.8 GHz	Pentium	G6950	2.5 GT/s	3MB	PASS
<a href="#">SLBMT</a>	2.27 GHz	Celeron	G1101	2.5 GT/s	2MB	PASS

## 2.2 Operation System Test

Item	Description	Result	Remark
1	Windows 7 64-bit	PASS	
2	Windows 7 32-bit	PASS	
3	Windows Server 2008 64-bit	PASS	
4	Windows Server 2008 32-bit	PASS	
5	Windows Vista 64-bit	PASS	
6	Windows Vista 32-bit	PASS	
7	Windows XP SP2	PASS	
8	Windows Server 2003	PASS	
9	open SUSE 11.3 (2.6.34-12-default)	PASS	
10	Kunbuntu 9.04 (2.6.28-11-generic)	PASS	

## 2.3 Memory Test

Test environment:

OS Windows XP professional SP2

Test program : PC MARK 2005

Manufacturer	Chip	Frequency	Capacity Mbytes	Result
INNODISK	H5TQ2G83BFR	DDR3 1333	4 GB	PASS
TLA	H5TQ2G83BFR	DDR3 1066	4 GB	PASS
Kingston	K4B2G0846B-HCF8	DDR3 1066	4 GB	PASS
Kingston	D1288JEMFPGD9U	DDR3 1333	2 GB	PASS
Transcend	K4B1G0846D	DDR3 1333	2 GB	PASS
A-DATA	AD30908CBD-151G	DDR3 1333	1 GB	PASS

## 2.4 VGA Graphic Quality Test

Test environment:

OS Windows XP professional SP2

Driver version : 6.14.10.5248

Resolution	Color	Result	Remark
800*600	16 / 32bit	PASS	
1024*768	16 / 32bit	PASS	
1152*864	16 / 32bit	PASS	
1280*600	16 / 32bit	PASS	
1280*720	16 / 32bit	PASS	
1280*768	16 / 32bit	PASS	
1280*800	16 / 32bit	PASS	
1280*960	16 / 32bit	PASS	
1280*1024	16 / 32bit	PASS	
1360*768	16 / 32bit	PASS	
1366*768	16 / 32bit	PASS	
1400*1050	16 / 32bit	PASS	
1440*900	16 / 32bit	PASS	
1600*900	16 / 32bit	PASS	
1600*1200	16 / 32bit	PASS	
1680*1050	16 / 32bit	PASS	
1792*1344	16 / 32bit	PASS	
1856*1392	16 / 32bit	PASS	
1920*1080	16 / 32bit	PASS	
1920*1200	16 / 32bit	PASS	

## 2.5 Audio

Test environment:

OS Windows XP professional SP2

Driver version : 5.10.0.6101

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	
4	CDIN	PASS	
5	SPDIF	PASS	

OS Windows Server 2003

Driver version : 5.10.0.6101

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	
4	CDIN	PASS	
5	SPDIF	PASS	

OS Windows Vista 32-bit

Driver version : 6.0.1.6101

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	
4	CDIN	PASS	
5	SPDIF	PASS	

**OS Windows Vista 64-bit**  
**Driver version : 6.0.1.6101**

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	
4	CDIN	PASS	
5	SPDIF	PASS	

**OS Windows Server 2008 32-bit**  
**Driver version : 6.0.1.6101**

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	
4	CDIN	PASS	
5	SPDIF	PASS	

**OS Windows Server 2008 64-bit**  
**Driver version : 6.0.1.6101**

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	
4	CDIN	PASS	
5	SPDIF	PASS	

**OS Windows 7 32-bit**  
**Driver version : 6.0.1.6101**

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	
4	CDIN	PASS	
5	SPDIF	PASS	

**OS Windows 7 64-bit**  
**Driver version : 6.0.1.6101**

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	
4	CDIN	PASS	
5	SPDIF	PASS	



## 2.6 HDD Test

Test environment:

OS Windows XP professional SP2

Model	Interface	Capacity	Size Detect	Data Transfer
Western Digital WD1600AAJS-00B4A0	SATA	160 GB	PASS	PASS
Western Digital WD2500BEVT-00SCST0	SATA	250 GB	PASS	PASS
Western Digital WD3200AAJS-00YZCA0	SATA	320 GB	PASS	PASS
Western Digital WD5000AAKS-00Z7B0	SATA	500 GB	PASS	PASS
Western Digital WD10EALX-009BA0	SATA	1000 GB	PASS	PASS

## 2.7 DVD-ROM Test

Test environment:

OS Windows XP professional SP2

Model	Iterance	Detect	Data Transfer	Play DVD
Optiarc DVD RW AD-7240S	SATA	PASS	PASS	PASS
Pioneer DVD RW DVR-219L	SATA	PASS	PASS	PASS
LITEON DVD eTAU108	USB	PASS	PASS	PASS

## 2.8 USB device Test

### 1. Windows XP SP2

Item	Result	Remark
External USB Keyboard Test	PASS	
External USB Mouse Test	PASS	
Hot plugging test	PASS	
CD ROM	PASS	
USB Mass storage	PASS	

### 2. Windows Server 2003

Item	Result	Remark
External USB Keyboard Test	PASS	
External USB Mouse Test	PASS	
Hot plugging test	PASS	
CD ROM	PASS	
USB Mass storage	PASS	

### 3. Windows Vista 32-bit

Item	Result	Remark
External USB Keyboard Test	PASS	
External USB Mouse Test	PASS	
Hot plugging test	PASS	
CD ROM	PASS	
USB Mass storage	PASS	

**4. Windows Vista 64-bit**

<b>Item</b>	<b>Result</b>	<b>Remark</b>
<b>External USB Keyboard Test</b>	PASS	
<b>External USB Mouse Test</b>	PASS	
<b>Hot plugging test</b>	PASS	
<b>CD ROM</b>	PASS	
<b>USB Mass storage</b>	PASS	

**5. Windows Server 2008 32-bit**

<b>Item</b>	<b>Result</b>	<b>Remark</b>
<b>External USB Keyboard Test</b>	PASS	
<b>External USB Mouse Test</b>	PASS	
<b>Hot plugging test</b>	PASS	
<b>CD ROM</b>	PASS	
<b>USB Mass storage</b>	PASS	

**6. Windows Server 2008 64-bit**

<b>Item</b>	<b>Result</b>	<b>Remark</b>
<b>External USB Keyboard Test</b>	PASS	
<b>External USB Mouse Test</b>	PASS	
<b>Hot plugging test</b>	PASS	
<b>CD ROM</b>	PASS	
<b>USB Mass storage</b>	PASS	

**7. Windows 7 32-bit**

<b>Item</b>	<b>Result</b>	<b>Remark</b>
<b>External USB Keyboard Test</b>	PASS	
<b>External USB Mouse Test</b>	PASS	
<b>Hot plugging test</b>	PASS	
<b>CD ROM</b>	PASS	
<b>USB Mass storage</b>	PASS	

**8. Windows 7 64-bit**

<b>Item</b>	<b>Result</b>	<b>Remark</b>
<b>External USB Keyboard Test</b>	PASS	
<b>External USB Mouse Test</b>	PASS	
<b>Hot plugging test</b>	PASS	
<b>CD ROM</b>	PASS	
<b>USB Mass storage</b>	PASS	

## 2.9 Serial Port Test

### 1. MS-DOS

Item	Description	Result	Remark
1	RS-232 Mouse Test	PASS	
2	RS422/485	PASS	
3	TS	PASS	

### 2. Windows Server 2003

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	RS-232 Mouse Test	PASS	
3	b&b com port test	PASS	

### 3. Windows XP SP2

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	RS-232 Mouse Test	PASS	
3	b&b com port test	PASS	

### 4. Windows Vista 32-bit

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	RS-232 Mouse Test	PASS	

**5. Windows Vista 64-bit**

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	RS-232 Mouse Test	PASS	

**6. Windows Server 2008 32-bit**

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	RS-232 Mouse Test	PASS	
3	b&b com port test	PASS	

**7. Windows Server 2008 64-bit**

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	RS-232 Mouse Test	PASS	

**8. Windows 7 32-bit**

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	RS-232 Mouse Test	PASS	

**9. Windows 7 64-bit**

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	RS-232 Mouse Test	PASS	

## 2.10 Print Port Test

### 1. Windows Server 2003

Item	Description	Result	Remark
1	ECP/EPP PRINT TEST	PASS	

### 2. Windows XP SP2

Item	Description	Result	Remark
1	ECP/EPP PRINT TEST	PASS	

### 3. Windows Vista 32 bit

Item	Description	Result	Remark
1	ECP/EPP PRINT TEST	PASS	

### 4. Windows Vista 64 bit

Item	Description	Result	Remark
1	ECP/EPP PRINT TEST	PASS	

### 5. Windows Server 2008 32 bit

Item	Description	Result	Remark
1	ECP/EPP PRINT TEST	PASS	

### 7. Windows Server 2008 64 bit

Item	Description	Result	Remark
1	ECP/EPP PRINT TEST	PASS	

### 8. Windows 7 32 bit

Item	Description	Result	Remark
1	ECP/EPP PRINT TEST	PASS	



**9. Windows 7 64 bit**

<b>Item</b>	<b>Description</b>	<b>Result</b>	<b>Remark</b>
1	ECP/EPP PRINT TEST	PASS	

## 2.11 Floppy Drive Test

<b>Floppy</b>	<b>Floppy Drive Detect</b>	<b>Floppy Data Transfer</b>
<b>MITSUMI D353M3D</b>	PASS	PASS
<b>MITSUMI D353T6</b>	PASS	PASS
<b>MITSUMI D353GUE</b>	PASS	PASS
<b>NEC FD1231H</b>	PASS	PASS
<b>TEAC FD-235HF</b>	PASS	PASS
<b>Panasonic JU-257A606P</b>	PASS	PASS

## 2.12 PS2 Keyboard 、 Mouse Test

### 1. MS-DOS

Item	Description	Result	Remark
1	Keyboard LED Status Test	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

### 2. Windows Server 2003

Item	Description	Result	Remark
1	Keyboard LED Status Test	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

### 3. Windows XP SP2

Item	Description	Result	Remark
1	Keyboard LED Status Test	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

### 4. Windows Vista 32-bit

Item	Description	Result	Remark
1	Keyboard LED Status Test	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

**5. Windows Vista 64-bit**

Item	Description	Result	Remark
1	Keyboard LED Status Test	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

**6. Windows Server 2008 32-bit**

Item	Description	Result	Remark
1	Keyboard LED Status Test	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

**7. Windows Server 2008 64-bit**

Item	Description	Result	Remark
1	Keyboard LED Status Test	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

**8. Windows 7 32-bit**

Item	Description	Result	Remark
1	Keyboard LED Status Test	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

**9. Windows 7 64-bit**

<b>Item</b>	<b>Description</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>Keyboard LED Status Test</b>	PASS	
<b>2</b>	<b>Keyboard Typing Test</b>	PASS	
<b>3</b>	<b>Mouse Detect Test</b>	PASS	

## 2.13 LAN Test

Data Transfer Test environment:

-CAT 6 UTP 100M

-8 HR. continuous

### 1. Windows XP SP2

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Data Transfer Test	PASS	

### 2. Windows Server 2003

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Data Transfer Test	PASS	

### 3. Windows Vista 32-bit

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Data Transfer Test	PASS	

### 4. Windows Vista 64-bit

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Data Transfer Test	PASS	

### 5. Windows Server 2008 32-bit

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Data Transfer Test	PASS	

**6. Windows Server 2008 64-bit**

<b>Item</b>	<b>Description</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>Device Manager Check</b>	PASS	
<b>2</b>	<b>Data Transfer Test</b>	PASS	

## 2.14 Power Supply Test

Item	TYPE	Description	Result	Remark
1	ATX Power	SWITCH POWER SUPPLY MC-B530ATX	PASS	
2	ATX Power	CHANNEL WELL TECHNOLOGY CO.,LTD CWT-300ATX12 300W	PASS	
3	ATX Power	Seventeam ST-300BKV 300W	PASS	
4	ATX Power	AcBel API3PC50 350W	PASS	
5	ATX Power	Seasonic SS-330HB 330W	PASS	



## 2.15 PCI Express mini card

<b>Motherboard</b>	<b>PCI Express mini card</b>	<b>Remark</b>
<b>MS-C72</b>	<b>MPX-574D</b>	PASS
<b>MS-C72</b>	<b>MPX-574D2</b>	ONLY LAN1
<b>MS-C72</b>	<b>MPX-643</b>	PASS
<b>MS-C72</b>	<b>MPX-827</b>	PASS
<b>MS-C72</b>	<b>MPX-885</b>	PASS
<b>MS-C72</b>	<b>MPX-954E</b>	PASS
<b>MS-C72</b>	<b>MPX-1040</b>	PASS
<b>MS-C72</b>	<b>MPX-3132</b>	NO SUPPLY
<b>MS-C72</b>	<b>MPX-6864</b>	PASS
<b>MS-C72</b>	<b>MPX-7202</b>	PASS
<b>MS-C72</b>	<b>MPX-7767</b>	PASS
<b>MS-C72</b>	<b>MPX-TP4R</b>	PASS
<b>MS-C72</b>	<b>MPX-SDVOD</b>	PASS
<b>MS-C72</b>	<b>MPX-SDVOX</b>	PASS
<b>MS-C72</b>	<b>MPX-XDOM</b>	PASS

### 3. Environmental test

#### 3.1 Temperature Test

##### Boot Up Test:

Hardware Device list:

<b>System Board</b>	<b>MS-C72</b>
<b>CPU</b>	<b>Intel(R) Celeron(TM) CPU G1101 2.26GHz</b>
<b>Memory</b>	<b>TLA DDR3 1066 2GB (H5TQ2G83BFR)</b>
<b>HDD</b>	<b>Western Digital WD1600AAJS-00B4A0 160GB</b>

<b>Temperature</b>	<b>Result</b>	<b>Remark</b>
<b>-40°C</b>	<b>PASS</b>	<b>50 Times</b>
<b>65°C</b>	<b>PASS</b>	<b>50 Times</b>

### 3.2 Thermal measurements at various points on the board

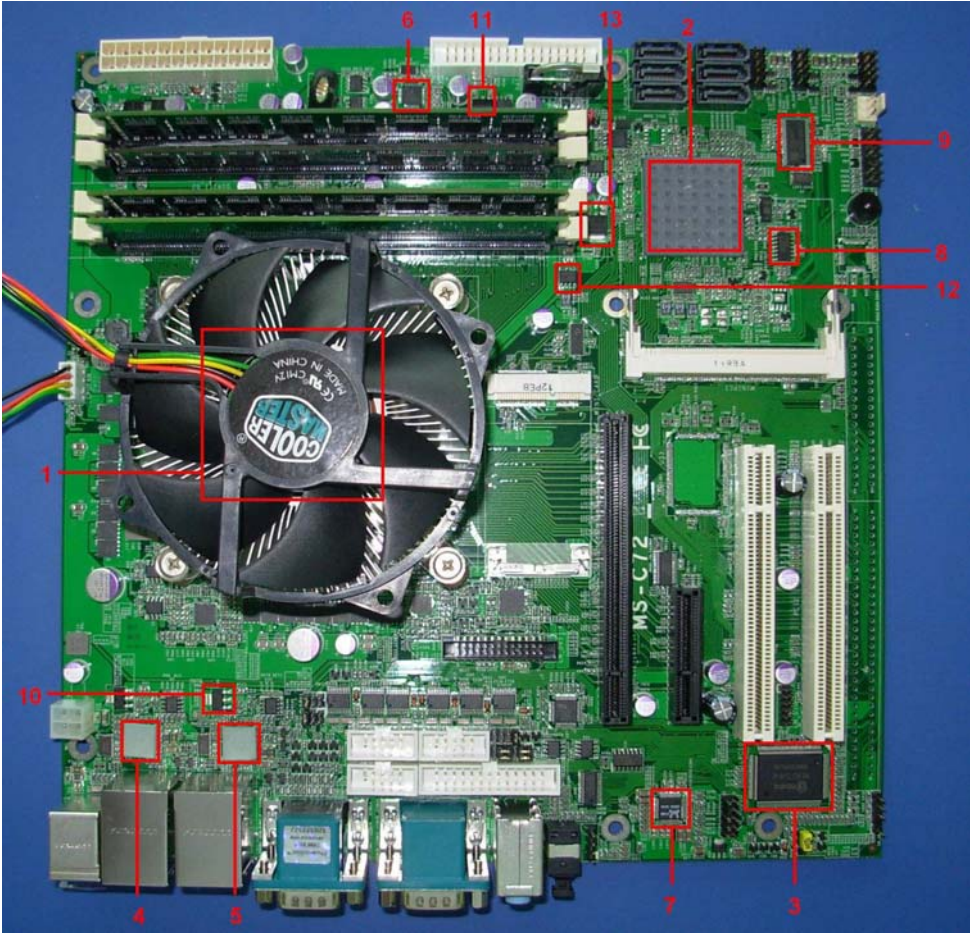
Test Environment :

<b>CPU</b>	Intel(R) Pentium(R) CPU G6950 2.8GHz
<b>Memory</b>	Kingston DDR3 1066 4GB (K4BG0846B-HFCB) Kingston DDR3 1333 2GB (D1288JEMFPGD9U) TLA DDR3 1066 4GB (H5TQ2G83BFR) TLA DDR3 1066 2GB (H5TQ2G83BFR)
<b>HDD</b>	Western Digital WD1600AAJS-00B4A0 160GB
<b>Power</b>	Seventeam ST-400EAG-05F
<b>Operating System</b>	Windows XP
<b>Test Program</b>	Burnin 5.3

Test Result:

Item	Environmental temperature	26.6°C
1	CPU	35°C
2	PCH (ICHQ57)	46.1°C
3	LPCIO (83627DHG)	31.5°C
4	U1 (ICH82574L+OHS-E8053-T)	32.4°C
5	U10 (ICH82574L+OHS-E8053-T)	33.1°C
6	U20 (ISL6537ACR)	38.8°C
7	U32 (ICHALC888)	43.9°C
8	U40 (ITS74HC14)	33.2°C
9	U41 (ICS9LP505)	49°C
10	Q14 (ICBCP69)	32.3°C

11	Q37 (TRE1084)	35.6°C
12	Q42 (TMSIRF7413Z)	35.2°C
13	Q43 (TMSTRFR3709ZTRPBF)	48.2°C



## 4. Reliability Test

### 4.1 Power Consumption Test

#### 1. Test Environment:

<b>Motherboard</b>	<b>MS-C72</b>
<b>CPU</b>	Intel(R) Celeron(TM) CPU G1101 2.26GHz
<b>Memory</b>	INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2
<b>HDD</b>	Western Digital WD1600AAJS-00B4A0 160GB

#### Power Supply : SWITCHING POWER SUPPLY MC-B350ATX

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003 + PRIME 95	
	Current ( A )	Power ( W )	Current ( A )	Power ( W )
<b>12V</b>	2.29	27.48	2.84	34.08
<b>5V</b>	1.99	9.95	3.36	16.8
<b>3.3V</b>	3.56	11.748	3.68	12.144
<b>5VSB</b>	0.601	3.005	0.007	0.035

**2.Test Environment:**

<b>Motherboard</b>	<b>MS-C72</b>
<b>CPU</b>	Intel(R) Core(TM) i3 CPU 540 3.06GHz
<b>Memory</b>	INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2
<b>HDD</b>	Western Digital WD1600AAJS-00B4A0 160GB

**Power Supply : SWITCHING POWER SUPPLY MC-B350ATX**

<b>Voltage</b>	<b>MS-DOS Boot up</b>		<b>Windows XP SP2 3DMARK 2003 + PRIME 95</b>	
	<b>Current ( A )</b>	<b>Power ( W )</b>	<b>Current ( A )</b>	<b>Power ( W )</b>
<b>12V</b>	2.31	27.72	3.11	37.32
<b>5V</b>	2	10	3.66	18.3
<b>3.3V</b>	4.71	15.543	5.11	16.863
<b>5VSB</b>	0.617	3.085	0.004	0.02

### 3.Test Environment:

<b>Motherboard</b>	<b>MS-C72</b>
<b>CPU</b>	Intel(R) Core(TM) i7 CPU 860 2.8GHz
<b>Memory</b>	INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2
<b>HDD</b>	Western Digital WD1600AAJS-00B4A0 160GB
<b>PCIE 16x Card</b>	DLEADTEK PX9500GT

**Power Supply : SWITCHING POWER SUPPLY MC-B350ATX**

<b>Voltage</b>	<b>MS-DOS Boot up</b>		<b>Windows XP SP2 3DMARK 2003 + PRIME 95</b>	
	<b>Current ( A )</b>	<b>Power ( W )</b>	<b>Current ( A )</b>	<b>Power ( W )</b>
<b>12V</b>	5.2	62.4	7.74	92.88
<b>5V</b>	3.07	15.35	3.06	15.3
<b>3.3V</b>	6.27	20.691	8.03	26.499
<b>5VSB</b>	0.605	3.025	0.005	0.025

#### 4. Test Environment:

<b>Motherboard</b>	<b>MS-C72</b>
<b>CPU</b>	Intel(R) Pentium(R) CPU G6950 2.8GHz
<b>Memory</b>	INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2
<b>HDD</b>	Western Digital WD1600AAJS-00B4A0 160GB

#### Power Supply : SWITCHING POWER SUPPLY MC-B350ATX

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003 + PRIME 95	
	Current ( A )	Power ( W )	Current ( A )	Power ( W )
<b>12V</b>	2.35	28.2	2.96	35.52
<b>5V</b>	2.01	10.05	3.48	17.4
<b>3.3V</b>	4.41	14.553	4.88	16.104
<b>5VSB</b>	0.641	3.205	0.004	0.02



**5.Test Environment:**

<b>Motherboard</b>	<b>MS-C72</b>
<b>CPU</b>	Intel(R) Core(TM) i5 CPU 750 2.67GHz
<b>Memory</b>	Kingston DDR3 1066 4GB (K4BG0846B-HFCB) Kingston DDR3 1333 2GB (D1288JEMFPGD9U) TLA DDR3 1066 4GB (H5TQ2G83BFR) TLA DDR3 1066 2GB (H5TQ2G83BFR)
<b>HDD</b>	Western Digital WD1600AAJS-00B4A0 160GB
<b>PCIE 16x Card</b>	NVIDIA GeForce 8600GT

**Power Supply : SWITCHING POWER SUPPLY MC-B350ATX**

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003 + PRIME 95	
	Current ( A )	Power ( W )	Current ( A )	Power ( W )
<b>12V</b>	6.8	81.6	11.8	141.6
<b>5V</b>	8.07	40.35	7.43	37.15
<b>3.3V</b>	4.22	13.926	7.55	24.915
<b>5VSB</b>	0.643	3.215	0.037	0.185

**6.Test Environment:**

<b>Motherboard</b>	<b>MS-C72</b>
<b>CPU</b>	Intel(R) Core(TM) i5 CPU 750 2.67GHz
<b>Memory</b>	Kingston DDR3 1066 4GB (K4BG0846B-HFCB) Kingston DDR3 1333 2GB (D1288JEMFPGD9U) TLA DDR3 1066 4GB (H5TQ2G83BFR) TLA DDR3 1066 2GB (H5TQ2G83BFR)
<b>HDD</b>	Western Digital WD1600AAJS-00B4A0 160GB
<b>PCIE 16x Card</b>	NVIDIA GeForce 8600GT

**Power Supply : Seventeam ST-400EAG-05F**

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003 + PRIME 95	
	Current ( A )	Power ( W )	Current ( A )	Power ( W )
<b>12V</b>	6.78	81.36	11.06	132.72
<b>5V</b>	3.63	18.15	4.08	20.4
<b>3.3V</b>	5.73	18.909	7.33	24.189
<b>5VSB</b>	0.611	3.055	0.003	0.015

**7.Test Environment:**

<b>Motherboard</b>	<b>MS-C72</b>
<b>CPU</b>	Intel(R) Core(TM) i7 CPU 860 2.8GHz
<b>Memory</b>	Kingston DDR3 1066 4GB (K4BG0846B-HFCB) Kingston DDR3 1333 2GB (D1288JEMFPGD9U) TLA DDR3 1066 4GB (H5TQ2G83BFR) TLA DDR3 1066 2GB (H5TQ2G83BFR)
<b>HDD</b>	Western Digital WD1600AAJS-00B4A0 160GB
<b>PCIE 16x Card</b>	NVIDIA GeForce 8600GT

**Power Supply : Seventeam ST-400EAG-05F**

<b>Voltage</b>	<b>MS-DOS Boot up</b>		<b>Windows XP SP2 3DMARK 2003 + PRIME 95</b>	
	<b>Current ( A )</b>	<b>Power ( W )</b>	<b>Current ( A )</b>	<b>Power ( W )</b>
<b>12V</b>	6.71	80.52	10.35	124.2
<b>5V</b>	3.61	18.05	4.25	21.25
<b>3.3V</b>	6.76	22.308	9.06	29.898
<b>5VSB</b>	0.584	2.92	0.004	0.02

## 5. Performance Test

### 5.1 Business Win Stone 2002

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
Business Win stone2002	Intel(R) Core(TM) i3 CPU 540 3.06GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB	PASS	45.8 47.3 47.1 47.2
Business Win stone2002	Intel(R) Celeron(R) CPU G1101 2.26GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB	PASS	43.5 42.9 43.9 42.8

<p align="center"><b>Business Win stone2002</b></p>	<p align="center">Intel(R) Pentium(R) CPU G6950 2.8GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB</p>	<p align="center">PASS</p>	<p align="center">47.9 47.5 33.8 47.2</p>
<p align="center"><b>Business Win stone2002</b></p>	<p align="center">Intel(R) Core(TM) i7 CPU 860 2.8GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB DLEADTEK PX9500GT</p>	<p align="center">PASS</p>	<p align="center">43.9 37.8 46 42.1</p>
<p align="center"><b>Business Win stone2002</b></p>	<p align="center">Intel(R) Core(TM) i5 CPU 750 2.67GHz Kingston DDR3 1066 4GB (K4B2G0846B-HCF8) Western Digital WD5000AAKS-00V1A0 500GB NVIDIA GeForce 8600GT</p>	<p align="center">PASS</p>	<p align="center">47.3 46.5 45.1 46.6</p>

**5.2 Business Win Stone 2004**

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
<p><b>Business Win stone2004</b></p>	<p><b>Intel(R) Core(TM) i3 CPU 540 3.06GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB</b></p>	<p>PASS</p>	<p>26 31.7 25.5 27.8</p>
<p><b>Business Win stone2004</b></p>	<p><b>Intel(R) Core(TM) i7 CPU 860 2.8GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB DLEADTEK PX9500GT</b></p>	<p>PASS</p>	<p>24.6 27.8 29.6 29.9</p>

<p><b>Business</b> <b>Win stone2004</b></p>	<p><b>Intel(R) Celeron(R)</b> <b>CPU G1101 2.26GHz</b> <b>INNODISK DDR3 1333 4GB</b> <b>(H5TQ2G83BFR)*2</b> <b>TLA DDR3 1066 4GB</b> <b>(H5TQ2G83BFR)*2</b> <b>Western Digital</b> <b>WD1600AAJS-00B4A0 160GB</b></p>	<p>PASS</p>	<p>25.3 25.4 25.5 25.8</p>
<p><b>Business</b> <b>Win stone2004</b></p>	<p><b>Intel(R) Pentium(R)</b> <b>CPU G6950 2.8GHz</b> <b>INNODISK DDR3 1333 4GB</b> <b>(H5TQ2G83BFR)*2</b> <b>TLA DDR3 1066 4GB</b> <b>(H5TQ2G83BFR)*2</b> <b>Western Digital</b> <b>WD1600AAJS-00B4A0 160GB</b></p>	<p>PASS</p>	<p>28 27.6 27.8 28</p>
<p><b>Business</b> <b>Win stone2004</b></p>	<p><b>Intel(R) Core(TM) i5</b> <b>CPU 750 2.67GHz</b> <b>Kingston DDR3 1066 4GB</b> <b>(K4B2G0846B-HCF8)</b> <b>Western Digital</b> <b>WD5000AAKS-00V1A0 500GB</b> <b>NVIDIA GeForce 8600GT</b></p>	<p>PASS</p>	<p>27.7 27.5 27.6 27.3</p>

### 5.3 Content Creation Win stone 2004

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
<p align="center"><b>Content Creation Winstone 2004</b></p>	<p align="center">Intel(R) Core(TM) i3 CPU 540 3.06GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB</p>	<p align="center">PASS</p>	<p align="center">54.4 53.4 53.7 53.5</p>
<p align="center"><b>Content Creation Winstone 2004</b></p>	<p align="center">Intel(R) Core(TM) i7 CPU 860 2.8GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB DLEADTEK PX9500GT</p>	<p align="center">PASS</p>	<p align="center">49.4 49.5 49.8 49.6</p>



<p align="center"><b>Content Creation Winstone 2004</b></p>	<p align="center">Intel(R) Celeron(R) CPU G1101 2.26GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB</p>	<p align="center">PASS</p>	<p align="center">44 43.3 42.8 43.5</p>
<p align="center"><b>Content Creation Winstone 2004</b></p>	<p align="center">Intel(R) Pentium(R) CPU G6950 2.8GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB</p>	<p align="center">PASS</p>	<p align="center">51.4 51.3 51.5 51.7</p>
<p align="center"><b>Content Creation Winstone 2004</b></p>	<p align="center">Intel(R) Core(TM) i5 CPU 750 2.67GHz Kingston DDR3 1066 4GB (K4B2G0846B-HCF8) Western Digital WD5000AAKS-00V1A0 500GB NVIDIA GeForce 8600GT</p>	<p align="center">PASS</p>	<p align="center">52 52.4 51.9 52.1</p>

## 5.4 3D MARK(2001、2003、2005)

### Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Scores	Intel(R) Core(TM) i3 CPU 540 3.06GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*4 Western Digital WD2500BEVT-00SCT0 250GB	PASS	14093
3DMARK2003 Scores		PASS	4941
3DMARK2005 Scores		PASS	3402

### Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Scores	Intel(R) Celeron(R) CPU G1101 2.27GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB	PASS	9209
3DMARK2003 Scores		PASS	3364
3DMARK2005 Scores		PASS	2277

**Windows XP SP2**

<b>WEIGHTED SUITE</b>	<b>Test Environment</b>	<b>Result</b>	<b>Remark</b>
<b>3DMARK2001 Scores</b>	<b>Intel(R) Core(TM) i7 CPU 860 2.8GHz INNODISK DDR3 1333 4GB</b>	<b>PASS</b>	<b>33559</b>
<b>3DMARK2003 Scores</b>	<b>(H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2</b>	<b>PASS</b>	<b>15770</b>
<b>3DMARK2005 Scores</b>	<b>Western Digital WD1600AAJS-00B4A0 160GB DLEADTEK PX9500GT</b>	<b>PASS</b>	<b>10379</b>

**Windows XP SP2**

<b>WEIGHTED SUITE</b>	<b>Test Environment</b>	<b>Result</b>	<b>Remark</b>
<b>3DMARK2001 Scores</b>	<b>Intel(R) Pentium(R) CPU G6950 2.8GHz INNODISK DDR3 1333 4GB</b>	<b>PASS</b>	<b>11113</b>
<b>3DMARK2003 Scores</b>	<b>(H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2</b>	<b>PASS</b>	<b>3690</b>
<b>3DMARK2005 Scores</b>	<b>Western Digital WD1600AAJS-00B4A0 160GB</b>	<b>PASS</b>	<b>2532</b>

**Windows XP SP2**

<b>WEIGHTED SUITE</b>	<b>Test Environment</b>	<b>Result</b>	<b>Remark</b>
<b>3DMARK2001 Scores</b>	<b>Intel(R) Core(TM) i5 CPU 750 2.67GHz</b>	<b>PASS</b>	<b>35731</b>
<b>3DMARK2003 Scores</b>	<b>Kingston DDR3 1066 4GB (K4B2G0846B-HCF8) Western Digital</b>	<b>PASS</b>	<b>18586</b>
<b>3DMARK2005 Scores</b>	<b>WD5000AAKS-00V1A0 500GB NVIDIA GeForce 8600GT</b>	<b>PASS</b>	<b>12211</b>

## 5.5 3D MARK2006

### Windows XP SP2

Item	WEIGHTED SUITE	Test Environment	Result	Remark
1	3DMARK Scores	Intel(R) Core(TM) i3 CPU 540 3.06GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*4 Western Digital WD2500BEVT-00SCT0 250GB	PASS	2017
2	SM2.0 Scores		PASS	667
3	HDR/SM3.0 Scores		PASS	760
4	CPU Scores		PASS	3117

### Windows XP SP2

Item	WEIGHTED SUITE	Test Environment	Result	Remark
1	3DMARK Scores	Intel(R) Celeron(R) CPU G1101 2.27GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB	PASS	1357
2	SM2.0 Scores		PASS	455
3	HDR/SM3.0 Scores		PASS	509
4	CPU Scores		PASS	1914

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Test Environment</b>	<b>Result</b>	<b>Remark</b>
1	3DMARK Scores	<b>Intel(R) Core(TM) i7 CPU 860 2.8GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB DLEADTEK PX9500GT</b>	PASS	6756
2	SM2.0 Scores		PASS	2533
3	HDR/SM3.0 Scores		PASS	2496
4	CPU Scores		PASS	4700

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Test Environment</b>	<b>Result</b>	<b>Remark</b>
1	3DMARK Scores	<b>Intel(R) Pentium(R) CPU G6950 2.8GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 TLA DDR3 1066 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB</b>	PASS	1505
2	SM2.0 Scores		PASS	495
3	HDR/SM3.0 Scores		PASS	569
4	CPU Scores		PASS	2349

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Test Environment</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>3DMARK Scores</b>	<b>Intel(R) Core(TM) i5 CPU 750 2.67GHz</b>	<b>PASS</b>	<b>7909</b>
<b>2</b>	<b>SM2.0 Scores</b>	<b>Kingston DDR3 1066 4GB (K4B2G0846B-HCF8)</b>	<b>PASS</b>	<b>3040</b>
<b>3</b>	<b>HDR/SM3.0 Scores</b>	<b>Western Digital WD5000AAKS-00V1A0 500GB</b>	<b>PASS</b>	<b>2975</b>
<b>4</b>	<b>CPU Scores</b>	<b>NVIDIA GeForce 8600GT</b>	<b>PASS</b>	<b>4483</b>

**5.6 PC MARK2002**

<b>Test Environment</b>
<b>Intel(R) Core(TM) i3 CPU 540 3.06GHz</b> <b>INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*4</b> <b>Western Digital WD2500BEVT-00SCT0 250GB</b>

**Windows XP SP2**

Item	WEIGHTED SUITE	Result	Remark
1	CPU test Scores	PASS	11412
2	Memory test Scores	PASS	40414
3	HDD test Scores	PASS	2028

<b>Test Environment</b>
<b>Intel(R) Celeron(R) CPU G1101 2.27GHz</b> <b>INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b>

**Windows XP SP2**

Item	WEIGHTED SUITE	Result	Remark
1	CPU test Scores	PASS	8374
2	Memory test Scores	PASS	22073
3	HDD test Scores	PASS	2069



<b>Test Environment</b>
<b>Intel(R) Core(TM) i7 CPU 860 2.8GHz</b> <b>INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2</b> <b>TLA DDR3 1066 4GB (H5TQ2G83BFR)*2</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b> <b>DLEADTEK PX9500GT</b>

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>CPU test Scores</b>	PASS	10567
<b>2</b>	<b>Memory test Scores</b>	PASS	38997
<b>3</b>	<b>HDD test Scores</b>	PASS	1997

<b>Test Environment</b>
<b>Intel(R) Pentium(R) CPU G6950 2.8GHz</b> <b>INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2</b> <b>TLA DDR3 1066 4GB (H5TQ2G83BFR)*2</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b>

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>CPU test Scores</b>	PASS	10324
<b>2</b>	<b>Memory test Scores</b>	PASS	35921
<b>3</b>	<b>HDD test Scores</b>	PASS	2003

<b>Test Environment</b>
<b>Intel(R) Core(TM) i5 CPU 750 2.67GHz</b> <b>Kingston DDR3 1066 4GB (K4B2G0846B-HCF8)</b> <b>Western Digital WD5000AAKS-00V1A0 500GB</b> <b>NVIDIA GeForce 8600GT</b>

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>CPU test Scores</b>	PASS	9983
<b>2</b>	<b>Memory test Scores</b>	PASS	37318
<b>3</b>	<b>HDD test Scores</b>	PASS	731

**5.7 PC MARK2004**

<b>Test Environment</b>
<b>Intel(R) Core(TM) i3 CPU 540 3.06GHz</b> <b>INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*4</b> <b>Western Digital WD2500BEVT-00SCT0 250GB</b>

**Windows XP PS2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
1	PCMark Scores	PASS	N/A
2	CPU test Scores	PASS	N/A
3	Memory test Scores	PASS	9622
4	Graphic test Scores	PASS	3043
5	HDD test Scores	PASS	6363

<b>Test Environment</b>
<b>Intel(R) Celeron(R) CPU G1101 2.27GHz</b> <b>INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b>

**Windows XP PS2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
1	PCMark Scores	PASS	N/A
2	CPU test Scores	PASS	N/A
3	Memory test Scores	PASS	5656
4	Graphic test Scores	PASS	2279
5	HDD test Scores	PASS	5217

<b>Test Environment</b>
<b>Intel(R) Core(TM) i7 CPU 860 2.8GHz</b> <b>INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2</b> <b>TLA DDR3 1066 4GB (H5TQ2G83BFR)*2</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b> <b>DLEADTEK PX9500GT</b>

**Windows XP PS2**

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Scores	PASS	N/A
2	CPU test Scores	PASS	N/A
3	Memory test Scores	PASS	10688
4	Graphic test Scores	PASS	8375
5	HDD test Scores	PASS	5210

<b>Test Environment</b>
<b>Intel(R) Pentium(R) CPU G6950 2.8GHz</b> <b>INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2</b> <b>TLA DDR3 1066 4GB (H5TQ2G83BFR)*2</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b>

**Windows XP PS2**

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Scores	PASS	N/A
2	CPU test Scores	PASS	N/A
3	Memory test Scores	PASS	7216
4	Graphic test Scores	PASS	2350
5	HDD test Scores	PASS	5016

<b>Test Environment</b>
<b>Intel(R) Core(TM) i5 CPU 750 2.67GHz</b> <b>Kingston DDR3 1066 4GB (K4B2G0846B-HCF8)</b> <b>Western Digital WD5000AAKS-00V1A0 500GB</b> <b>NVIDIA GeForce 8600GT</b>

**Windows XP PS2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>PCMark Scores</b>	PASS	N/A
<b>2</b>	<b>CPU test Scores</b>	PASS	N/A
<b>3</b>	<b>Memory test Scores</b>	PASS	10344
<b>4</b>	<b>Graphic test Scores</b>	PASS	10290
<b>5</b>	<b>HDD test Scores</b>	PASS	2880

## 5.8 PC MARK2005

<b>Test Environment</b>
<b>Intel(R) Core(TM) i3 CPU 540 3.06GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*4 Western Digital WD2500BEVT-00SCT0 250GB</b>

### Windows XP SP2

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>System test Scores</b>	PASS	6324
<b>2</b>	<b>CPU test Scores</b>	PASS	8209
<b>3</b>	<b>Memory test Scores</b>	PASS	6633
<b>4</b>	<b>Graphic test Scores</b>	PASS	3378
<b>5</b>	<b>HDD test Scores</b>	PASS	6601

<b>Test Environment</b>
<b>Intel(R) Celeron(R) CPU G1101 2.27GHz INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2 Western Digital WD1600AAJS-00B4A0 160GB</b>

### Windows XP SP2

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>System test Scores</b>	PASS	4265
<b>2</b>	<b>CPU test Scores</b>	PASS	5647
<b>3</b>	<b>Memory test Scores</b>	PASS	5253
<b>4</b>	<b>Graphic test Scores</b>	PASS	2231
<b>5</b>	<b>HDD test Scores</b>	PASS	5073

<b>Test Environment</b>
<b>Intel(R) Core(TM) i7 CPU 860 2.8GHz</b> <b>INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2</b> <b>TLA DDR3 1066 4GB (H5TQ2G83BFR)*2</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b> <b>DLEADTEK PX9500GT</b>

**Windows XP SP2**

Item	WEIGHTED SUITE	Result	Remark
1	System test Scores	PASS	7098
2	CPU test Scores	PASS	8764
3	Memory test Scores	PASS	7881
4	Graphic test Scores	PASS	6704
5	HDD test Scores	PASS	5024

<b>Test Environment</b>
<b>Intel(R) Pentium(R) CPU G6950 2.8GHz</b> <b>INNODISK DDR3 1333 4GB (H5TQ2G83BFR)*2</b> <b>TLA DDR3 1066 4GB (H5TQ2G83BFR)*2</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b>

**Windows XP SP2**

Item	WEIGHTED SUITE	Result	Remark
1	System test Scores	PASS	5291
2	CPU test Scores	PASS	6951
3	Memory test Scores	PASS	5960
4	Graphic test Scores	PASS	2673
5	HDD test Scores	PASS	5657

<b>Test Environment</b>
<b>Intel(R) Pentium(R) CPU G6950 2.8GHz</b> <b>Kingston DDR3 1066 4GB (K4B2G0846B-HCF8)</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b>

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
1	System test Scores	PASS	5234
2	CPU test Scores	PASS	6905
3	Memory test Scores	PASS	5989
4	Graphic test Scores	PASS	2532
5	HDD test Scores	PASS	5722

<b>Test Environment</b>
<b>Intel(R) Pentium(R) CPU G6950 2.8GHz</b> <b>Kingston DDR3 1333 2GB (D1288JEMFPGD9U)</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b>

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
1	System test Scores	PASS	5226
2	CPU test Scores	PASS	6946
3	Memory test Scores	PASS	5993
4	Graphic test Scores	PASS	2510
5	HDD test Scores	PASS	5735



<b>Test Environment</b>
<b>Intel(R) Pentium(R) CPU G6950 2.8GHz</b> <b>Transcend DDR3 2GB (K4B1G0846D)</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b>

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>System test Scores</b>	PASS	5225
<b>2</b>	<b>CPU test Scores</b>	PASS	6944
<b>3</b>	<b>Memory test Scores</b>	PASS	5948
<b>4</b>	<b>Graphic test Scores</b>	PASS	2522
<b>5</b>	<b>HDD test Scores</b>	PASS	5717

<b>Test Environment</b>
<b>Intel(R) Pentium(R) CPU G6950 2.8GHz</b> <b>A-DATA DDR3 1GB (AD30908CBD-151G)</b> <b>Western Digital WD1600AAJS-00B4A0 160GB</b>

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>System test Scores</b>	PASS	5198
<b>2</b>	<b>CPU test Scores</b>	PASS	6897
<b>3</b>	<b>Memory test Scores</b>	PASS	5961
<b>4</b>	<b>Graphic test Scores</b>	PASS	2481
<b>5</b>	<b>HDD test Scores</b>	PASS	5679

<b>Test Environment</b>
<b>Intel(R) Core(TM) i5 CPU 750 2.67GHz</b> <b>Kingston DDR3 1066 4GB (K4B2G0846B-HCF8)</b> <b>Western Digital WD5000AAKS-00V1A0 500GB</b> <b>NVIDIA GeForce 8600GT</b>

**Windows XP SP2**

<b>Item</b>	<b>WEIGHTED SUITE</b>	<b>Result</b>	<b>Remark</b>
<b>1</b>	<b>System test Scores</b>	PASS	5197
<b>2</b>	<b>CPU test Scores</b>	PASS	8348
<b>3</b>	<b>Memory test Scores</b>	PASS	7559
<b>4</b>	<b>Graphic test Scores</b>	PASS	8162
<b>5</b>	<b>HDD test Scores</b>	PASS	725

## 5.9 Storage Performance

### 5.9.1 HDD

Test environment:

OS Windows XP professional SP2

Program (HD Tune)

HDD Model	Interface	Capacity	Average	Burst Rate	Access Time
Western Digital WD1600AAJS-00B4A0	SATA	160 GB	96.7 MB/sec	111.7 MB/sec	15.8 ms
Western Digital WD2500BEVT-00SCST0	SATA	250 GB	75.4 MB/sec	102.4 MB/sec	15.1 ms
Western Digital WD3200AAJS-00YZCA0	SATA	320 GB	86.2 MB/sec	112.9 MB/sec	15.4 ms
Western Digital WD5000AAKS-00Z7B0	SATA	500 GB	72.3 MB/sec	107.4 MB/sec	12.7 ms
Western Digital WD10EALX-009BA0	SATA	1000 GB	105.2 MB/sec	155.6 MB/sec	12.8 ms
TDK LoR Trans-Ilt Drive	USB	4 GB	14.7 MB/sec	15.5 MB/sec	1.1 ms

<b>JetFlash Transcend</b>	<b>USB</b>	<b>4 GB</b>	13.8 MB/sec	13.9 MB/sec	0.9 ms
<b>Apacer USB FLASH DRIVE</b>	<b>USB</b>	<b>515 MB</b>	8.4 MB/sec	4.5 MB/sec	2.0 ms

## 5.9.2 DVD-ROM

Test environment:

OS Windows XP professional SP2

Program (NERO)

CD-ROM Model	Interface	Average Speed	Full Read	Burst Rate	CD
Optiarc DVD RW AD-7240S	SATA	30.77 x	210 ms	32 MB/s	52X CD-R
Pioneer DVD RW DVR-219L	SATA	26.12 x	134 ms	57 MB/s	52X CD-R
LITEON DVD eTAU108	USB	15.48 x	199 ms	16 MB/s	52X CD-R

### 5.10 Vibration Test

Motherboard	MS-C72			
Test Equipment	VS-5060L			
Amplitude	Degree	Frequency	Time (1min/1Time)	Result
0.75mm	40°C	5 → 55 → 5 Hz	10	PASS
1.00mm	55°C	5 → 55 → 5 Hz	10	PASS
1.25mm	70°C	5 → 55 → 5 Hz	10	PASS
1.5mm	90°C	5 → 55 → 5 Hz	10	PASS
1.5mm	90°C	5 → 55 → 5 Hz	120	PASS