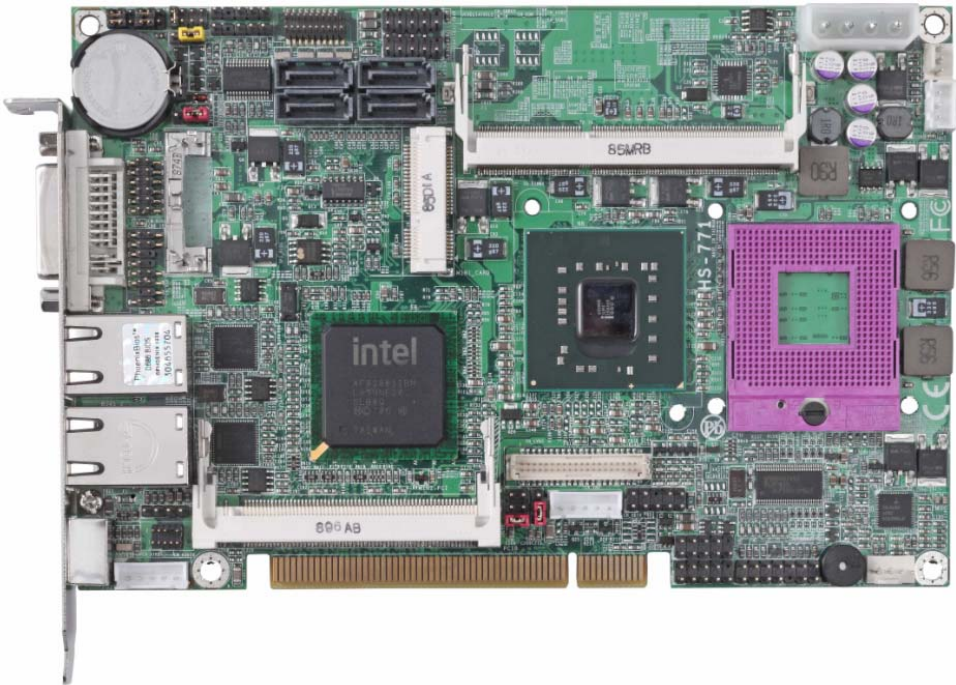


Product Test Report



Product Name	HS-771
Product Version	B
Issued Date	16.Jun.2014
Report Edition	1.3
BIOS Version	1.11
Testing Engineer	RICK
Check Engineer	GARY

REVISION HISTORY			
DATE	REVISION NO.	PAGE	DESCRIPTONS
2.Jun.2009	Ver. 1.0	60	Initial Release
16.Oct.2009	Ver. 1.1	66	1.Increase CPU test 2.Increase OS test
21.Jan.2010	Ver. 1.2	67	Increase power consumption test
16.Jun.2014	Ver. 1.3	65	1.Add memory 2GB*2 & 4GB*1 2.Add HDD 3.Decrease the blank

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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	PASS
6	USB 1/2/3/4/5/6/7/8	PASS
7	DDRIII 1/2	PASS
8	COM 1/2	PASS
9	VGA Port	PASS
10	PS2	PASS
11	AUDIO	PASS
12	CD_IN	PASS
13	CN_ATKB	PASS
14	Mini PCI	PASS
15	PCI Express Mini Card	PASS
16	DIO	PASS
17	CPUFAN	PASS
18	SYSFAN	PASS
19	PCI 1/2/3/4	PASS
20	DVI	PASS
21	LVDS	PASS
22	LAN 1/2	PASS

23	IrDA	PASS
24	HDTV	PASS
25	CN_PS	PASS

Jumper

Item	Description	Result
1	JRTC	PASS
2	JCSEL1	PASS
3	JCSEL2	PASS
4	JAT	PASS
5	JVLCD	PASS
6	JVINV	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	Save & Exit Setup	PASS	
4	Date & Time Setting	PASS	
5	Quick Power On Self Test	PASS	
6	Boot Device Setting	PASS	
7	Boot Up Num Lock Status	PASS	
8	ACPI Suspend Type	PASS	
9	Halt On	PASS	
10	Onboard Serial Port	PASS	
11	USB Controller	PASS	
12	USB Keyboard Support	PASS	
13	Soft-Off by PWRBTN	PASS	
14	Power On Function	PASS	
15	ACPI Function	PASS	
16	Hot Key Password	PASS	
17	Wake-up by PCI card (Mini PCI Card)	PASS	
18	Wake-up by PCI card (PCI Express Mini Card)	PASS	
19	Resume by Alarm	PASS	
20	Watch Dog Timer Select	PASS	
21	Init Display First	PASS	
22	PWRON After PWR-Fail	PASS	
23	Power On by Ring	PASS	

24	Set Supervisor Password	PASS	
25	Set User Password	PASS	
26	UART Mode Select	PASS	
27	RxD , Txd Active	PASS	
28	IR Transmission Delay	PASS	
29	UR2 duplex Mode	PASS	
30	Use IR Pins	PASS	
31	CPU Warning Temperature	PASS	
32	Shutdown Temperature	PASS	
33	HDD Power Down	PASS	
34	USB Wake Up by S3	PASS	
35	Smart Fan2 Temperature	PASS	

1.3 Driver

CD Edition : IPCi 2– 1.3

1. Windows XP SP2 Driver Test

Item	Description	Result	version
1	Chipset Driver	PASS	9.0.0.1008
2	VGA Driver	PASS	16.14.10.4990
3	Audio Driver	PASS	5.10.0.5464
4	LAN Driver	PASS	10.3.49.0

2. Windows 2000 SP4 Driver Test

Item	Description	Result	version
1	Chipset Driver	PASS	9.0.0.1008
2	VGA Driver	PASS	6.14.10.4990
3	Audio Driver	PASS	5.10.0.5464
4	LAN Driver	PASS	10.3.49.0

3. Windows Server 2003 Driver Test

Item	Description	Result	version
1	Chipset Driver	PASS	9.0.0.1008
2	Audio Driver	PASS	5.10.0.5464
3	LAN Driver	PASS	10.3.49.0

4. Windows Vista 32 bit Driver Test

Item	Description	Result	version
1	Chipset Driver	PASS	9.0.0.1008
2	VGA Driver	PASS	7.15.10.1518
3	Audio Driver	PASS	6.0.1.5473
4	LAN Driver	PASS	10.3.49.0

5. Windows Vista 64 bit Driver Test

Item	Description	Result	version
1	Chipset Driver	PASS	9.0.0.1008
2	VGA Driver	PASS	7.15.10.1518
3	Audio Driver	PASS	6.0.1.5473
4	LAN Driver	PASS	10.3.49.0

2. Compatibility test

2.1 CPU Test

Test environment:

OS Windows XP professional SP2

Test program : PC MARK 2005

Spec	CPU Speed	Family	Processor	FSB	L2 Size	Result
<u>SLA43</u>	2.4 GHz	Core2 Duo	T7700	800 MHz	4 MB	PASS
<u>SLA4A</u>	1.8 GHz	Core2 Duo	T7100	800 MHz	2 MB	PASS
<u>SLB47</u>	2.8 GHz	Core2 Duo	T9600	1066 MHz	6 MB	PASS
<u>SLAYQ</u>	2.4 GHz	Core2 Duo	T8300	800 MHz	3 MB	PASS
<u>SLB3R</u>	2.26 GHz	Core2 Duo	P8400	1066 MHz	3 MB	PASS
<u>SLB5G</u>	2.26 GHz	Core2 Quad	Q9100	1066 MHz	12 MB	PASS
<u>SLB6M</u>	2 GHz	Celeron	575	667 MHz	1 MB	PASS
<u>SLAF8</u>	2.2 GHz	Core2 Duo	T7500	800 MHz	4 MB	PASS

2.2 Operation System Test

Item	Description	Result	Remark
1	Windows 7	PASS	
2	Windows Server 2008	PASS	
3	Windows Vista 64 bit	PASS	
4	Windows Vista 32 bit	PASS	
5	Windows XP SP2	PASS	
6	Windows Server 2003	PASS	
7	Windows 2000 SP4	PASS	
8	Fedora 7 (Kernel 2.6.21-1.3194.fc7)	PASS	
9	Fedora 8 (Kernel 2.6.23-1-42.fc8)	PASS	
10	Debian Lenny Beta2 (Kernel 2.6.24-1-amd64)	PASS	
11	Cent OS 4.5 (Kernel 2.6.9-55)	PASS	

2.3 Memory Test

Test environment:

OS Windows XP professional SP2

Test program : PC MARK 2005

Manufacturer	Chip	Frequency	Capacity Mbytes	Result
A-DATA	K4B1G0846D	DDRIII 1066	1GB	PASS
A-DATA	K4B1G0846D	DDRIII 1066	2GB	PASS
Transcend	K4B1G0846D	DDRIII 1066	2GB	PASS
Transcend	K4B1G0846D	DDRIII 1066	1GB	PASS
Kingston	D2568JPUCPGD9U	DDRIII 1333	4GB	PASS

2.4 VGA Graphic Quality Test

Test environment:

OS Windows XP professional SP2

Driver version : 16.4.10.4990

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*960	16 /32bit	PASS	
1280*1024	16 /32bit	PASS	
1400*1050	16 /32bit	PASS	
1600*900	16 /32bit	PASS	
1600*1200	16 /32bit	PASS	
1680*1050	16 /32bit	PASS	
1920*1080	16 /32bit	PASS	

2.5 Audio

Test environment:

OS Windows XP professional SP2

Driver version : 5.10.0.5464

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	CDIN	PASS	

OS Windows 2000 SP4

Driver version : 5.10.0.5464

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	CDIN	PASS	

OS Windows Server 2003

Driver version : 5.10.0.5464

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	CDIN	PASS	

OS Windows Vista 32 bit

Driver version : 6.0.1.5473

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	CDIN	PASS	

OS Windows Vista 64 bit

Driver version : 6.0.1.5473

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	
3	CDIN	PASS	

2.6 HDD Test

Test environment:

OS Windows XP professional SP2

MODEL	INTERFACE	capacity	Size Detect	Data Transfer
Western Digital WD800JD-75MSA3	SATA	80 GB	PASS	PASS
Western Digital WD800JD-00LSA0	SATA	80 GB	PASS	PASS
Western Digital WD800BEVS-00RST0	SATA	80 GB	PASS	PASS
Seagate ST3160815AS	SATA	160 GB	PASS	PASS
Western Digital WD3000JS-22PDB0	SATA	300 GB	PASS	PASS
Western Digital WD3200BPVT-00JJ5T0	SATA	320 GB	PASS	PASS
Intel SSDSC2CT060A3	SATA	60 GB	PASS	PASS
AFAYA MDS	SATA DOM	4 GB	PASS	PASS

2.7 CD-ROM Test

Test environment:

OS Windows XP professional SP2

MODEL	INTERFACE	Detect	Data Transfer	PLAY DVD
LG DVD GSA-H62L	SATA	PASS	PASS	PASS
PIONEER DVD DVR-212BK	SATA	PASS	PASS	PASS
ASUS DVD DRW-1814BLT	SATA	PASS	PASS	PASS
LITEON DVD SOSC-2485KX	USB	PASS	PASS	PASS
LITEON DVD SOSW-833XS	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 2000 SP4

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 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	

4. 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	

5. Windows Vista 64 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	

6. Windows Server 2008

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

7. Windows 7

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

2.9 Serial Port Test

1. MS-DOS

Item	Description	Result	Remark
1	RS-232 Mouse Test	PASS	
2	RS-422 & RS-485	PASS	
3	PC Check	PASS	
4	TS	PASS	

2. 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	

3. Windows 2000 SP4

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

4. 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	

5. Windows Vista 32 bit

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

6. Windows Vista 64 bit

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

7. Windows Server 2008

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

8. Windows 7

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

2.10 Floppy Drive Test

Floppy	Floppy Drive Detect	Floppy Data Transfer
MITSUMI D353FUE	PASS	PASS
MITSUMI D353GUE	PASS	PASS

2.11 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 XP SP2

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

3. Windows 2000 SP4

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

4. Windows Server 2003

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

5. Windows Vista 32 bit

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

6. Windows Vista 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

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

7. Windows Server 2008

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

2.12 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 2000 SP4

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

3. Windows Server 2003

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

4. Windows Vista 32 bit

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

5. Windows Vista 64 bit

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

2.13 Power Supply Test

Item	TYPE	Description	Result	Remark
1	ATX Power	COOLER MASTER RS-390-PMSR-A3 390W	PASS	
2	ATX Power	FSP180-50PLA 180W	PASS	
3	ATX Power	LACONIC ENTERPRISE CO.,LTD 1U150 150W	PASS	
4	ATX Power	Enhance ENP-2120H 200W	PASS	
5	AT Power On/Off	MAGITRONIC D-P350 200W	PASS	

2.14 PCI Express mini card

Motherboard	PCI Express mini card	Remark
HS-771	MPX-574D/D2	PASS
HS-771	MPX-2503	PASS
HS-771	MPX-7767	PASS
HS-771	MPX-827	PASS
HS-771	MPX-954	PASS

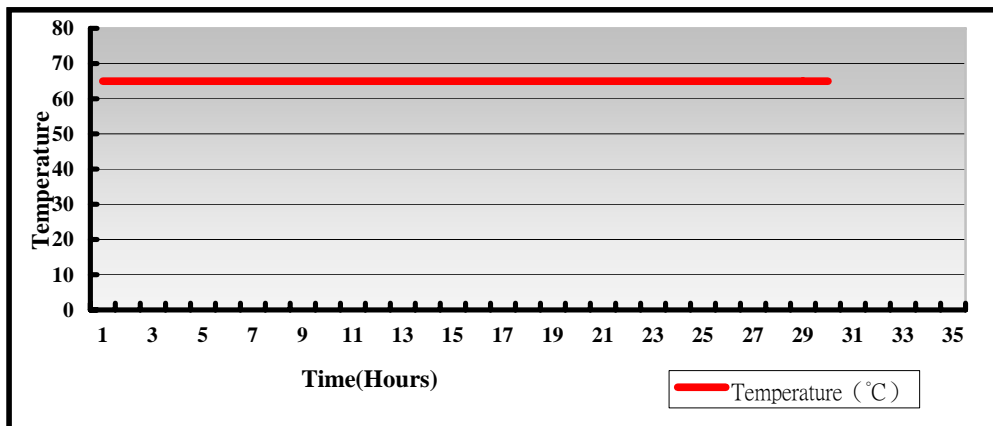
2.15 Back plane (PICMG1.3 or PICMG 1.0 or PISA)

Item	BRAND	MODEL	Result	Remark
1	Commell	CBP-5P4	PASS	

3. Environmental test

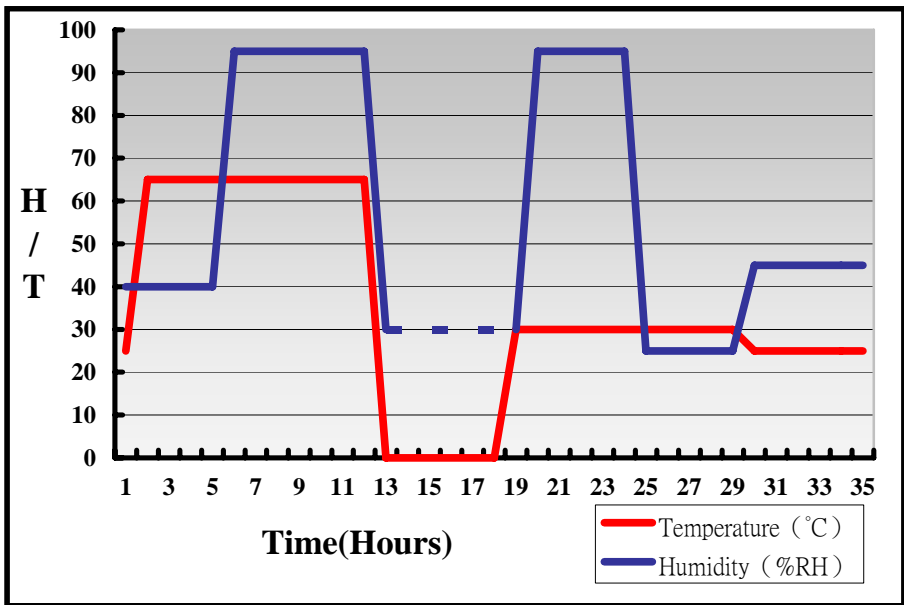
3.1 Temperature Test

System Board	HS-771
CPU	Intel (R) Core (TM) 2 Quad CPU 9100 2.26GHz
Memory	Transcend DDR3 1066 1GB (K4B1G0846D)
Operating OS	Windows XP
Test Equipment	GIANT FORCE (GTH-150-60-CP-AR)
Test Program	3DMark 2003



Hardware Device list:

System Board	HS-771
CPU	Intel (R) Core (TM) 2 Duo CPU T9600 2.80GHz
Memory	A-DATA DDR3 1066 1GB (K4B1G0846D)
Operating OS	Windows XP
Test Equipment	GIANT FORCE (GTH-150-60-CP-AR)
Test Program	3DMark 2003



Definition : When the temperature is 30 degrees below arrive, humidity measurements have not, so by the dashed line express.

Boot Up Test:

Hardware Device list:

System Board	HS-771
CPU	Intel (R) Core (TM) 2 Quad CPU 9100 2.26GHz
Memory	Transcend DDR3 1066 1GB (K4B1G0846D)
HDD	Hitachi HDS728080PLA380 82.3GB

Temperature	Result	Remark
-25°C	PASS	50 Times
80°C	PASS	50 Times

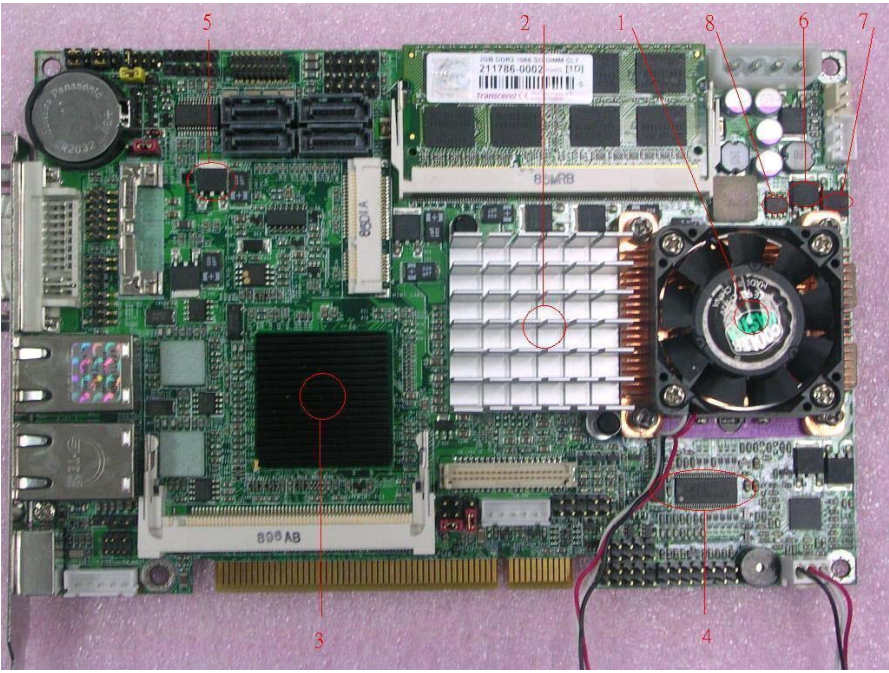
3.2 Thermal measurements at various points on the board

Test Environment :

CPU	Intel (R) Core (TM) 2 Duo CPU T9600 2.80GHz
Memory	Transcend DDR3 1066 2GB (K4B1G0846D)
HDD	Western Digital WD800JD-75MSA3 80GB
Power	COOLER MASTER RS-390-PMSR-A3
Operating System	Windows XP
Test Program	Burnin 5.3

Test Result:

Item	Environmental temperature	26°C
1	CPU	56.3°C
2	GM45(Northbridge)	43.8°C
3	ICH9M(Southbridge)	50.1°C
4	U10(ICS9LP505)	57.7°C
5	Q9(CEU3700(TO252))	52.1°C
6	Q10(TMSTRFR3709ZTRPBF)	56.1°C
7	Q11(TMSTRFR3709ZTRPBF)	61.1°C
8	Q12(TMSIRF7413Z)	58.2°C
9	Q32(TMS2N7002_NL)	53.2°C
10	Q36(TMSIRF7413Z)	52.4°C



4. Reliability Test

4.1 Power Consumption Test

1. Test Environment:

Motherboard	HS-771
CPU	Intel (R) Core (TM)2 Duo CPU T8300 2.40GHz
Memory	Transcend DDR3 1066 2GB (K4B1G0846D)*2

Power Supply : COOLER MASTER RS-390-PMSR-A3

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.84	22.08	1.91	22.92
5V	3.53	17.65	4.79	23.95
5VSB	0.13	0.65	0.009	0.045

1.a. Test Environment:

The same as above but with LCD panel

Display Panel	AUO M170EG01 17" LCD
----------------------	----------------------

Power Supply : COOLER MASTER RS-390-PMSR-A3

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	3.76	45.12	3.82	45.84
5V	4.3	21.5	5.73	28.65
5VSB	0.154	0.77	0.012	0.06

2.Test Environment:

Motherboard	HS-771
CPU	Intel (R) Core (TM)2 Duo CPU T7100 1.80GHz
Memory	Transcend DDR3 1066 2GB (K4B1G0846D)*2

Power Supply : COOLER MASTER RS-390-PMSR-A3

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.4	16.8	1.36	16.32
5V	3.52	17.6	4.68	23.4
5VSB	0.167	0.835	0	0

2.a.Test Environment:

The same as above but with LCD panel

Display Panel	AUO M170EG01 17" LCD
----------------------	-----------------------------

Power Supply : COOLER MASTER RS-390-PMSR-A3

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	3.27	39.24	3.26	39.12
5V	4.5	22.5	5.57	27.85
5VSB	0.135	0.675	0.009	0.045

3.Test Environment:

Motherboard	HS-771
CPU	Intel (R) Core (TM)2 Duo CPU T9600 2.80GHz
Memory	Transcend DDR3 1066 2GB (K4B1G0846D)*2

Power Supply : COOLER MASTER RS-390-PMSR-A3

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.84	22.08	1.69	20.28
5V	3.63	18.15	4.85	24.25
5VSB	0.106	0.53	0.01	0.05

3.a.Test Environment:

The same as above but with LCD panel

Display Panel	AUO M170EG01 17" LCD
----------------------	-----------------------------

Power Supply : COOLER MASTER RS-390-PMSR-A3

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	3.87	46.44	3.64	43.68
5V	4.56	22.8	5.81	29.05
5VSB	0.132	0.66	0.003	0.015

4.Test Environment:

Motherboard	HS-771
CPU	Intel (R) Core (TM)2 Duo CPU T7700 2.40GHz
Memory	Transcend DDR3 1066 2GB (K4B1G0846D)*2

Power Supply : COOLER MASTER RS-390-PMSR-A3

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	2.09	25.08	2.31	27.72
5V	3.32	16.6	4.79	23.95
5VSB	0.142	0.71	0.142	0.71

4.a.Test Environment:

The same as above but with LCD panel

Display Panel	AUO M170EG01 17" LCD
----------------------	-----------------------------

Power Supply : COOLER MASTER RS-390-PMSR-A3

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	4.09	49.08	4.25	51
5V	4.32	21.6	5.75	28.75
5VSB	0.134	0.67	0.005	0.025

5.Test Environment:

Motherboard	HS-771
CPU	Intel (R) Core (TM)2 Duo CPU P8400 2.26GHz
Memory	Transcend DDR3 1066 2GB (K4B1G0846D)*2

Power Supply : CHANNEL WELL TECHNOLOGY CO.,LTD.

CWT-300ATX12

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.33	15.96	1.39	16.68
5V	3.99	19.95	5.06	25.3
5VSB	0.17	0.85	0.015	0.075

5.a.Test Environment:

The same as above but with LCD panel

Display Panel	AUO M170EG01 17" LCD
----------------------	-----------------------------

Power Supply : CHANNEL WELL TECHNOLOGY CO.,LTD.

CWT-300ATX12

Voltage	MS-DOS Boot up		Windows XP SP2 3DMARK 2003	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	2.54	30.48	2.37	28.44
5V	4.91	24.55	6.08	30.4
5VSB	0.165	0.825	0.016	0.08

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)2 Duo CPU T7700 2.4GHz A-DATA DDR3 1066 2GB (K4B1G0846D) Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	32.1 44.2 43.5 42.7
Business Win stone2002	Intel (R) Core (TM)2 Duo CPU T7100 1.8GHz A-DATA DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	40.2 40.2 39.2 39.7
Business Win stone2002	Intel (R) Core (TM)2 Duo CPU T9600 2.8GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	37.5 36.9 37.3 36.7

5.2 Business Win Stone 2004

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
Business Win stone2004	Intel (R) Core (TM)2 Duo CPU T7700 2.4GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	26.2 24.4 19.4 23
Business Win stone2004	Intel (R) Core (TM)2 Duo CPU T7100 1.8GHz Transcend DDR3 1066 1GB (K4B1G0846D) Hitachi HDS728080PLA380 82.3GB	PASS	23.9 23.6 23.4 23.2
Business Win stone2004 1.0.1	Intel (R) Core (TM)2 Duo CPU T7100 1.8GHz Transcend DDR3 1066 1GB (K4B1G0846D) Hitachi HDS728080PLA380 82.3GB	PASS	20 16.9 9.5 18.8

<p>Business Win stone2004</p>	<p>Intel (R) Core (TM)2 Duo CPU T9600 2.8GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB</p>	<p>PASS</p>	<p>21.9 22.2 21.6 21.1</p>
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5.3 Content Creation Winstone 2004

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
Content Creation Winstone 2004	Intel (R) Core (TM)2 Duo CPU T7700 2.4GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	41.3 42 41.8 41.7
Content Creation Winstone 2004	Intel (R) Core (TM)2 Duo CPU T7100 1.8GHz Transcend DDR3 1066 1GB (K4B1G0846D) Hitachi HDS728080PLA380 82.3GB	PASS	32.1 32.8 33.4 33.5
Content Creation Winstone 2004	Intel (R) Core (TM)2 Duo CPU T9600 2.8GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	33.5 33 32.9 33.2

5.4 3D MARK(2001、2003、2005)

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Score	Intel (R) Core (TM)2 Duo CPU T7700 2.4GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	5598
3DMARK2003 Score		PASS	1894
3DMARK2005 Score		PASS	1124

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Score	Intel (R) Core (TM)2 Duo CPU T7100 1.8GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	5159
3DMARK2003 Score		PASS	1847
3DMARK2005 Score		PASS	1070

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Score	Intel (R) Core (TM)2 Duo CPU T9600 2.8GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	6946
3DMARK2003 Score		PASS	2200
3DMARK2005 Score		PASS	1257

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Score	Intel (R) Core (TM)2 Duo CPU T8300 2.4GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	5442
3DMARK2003 Score		PASS	1863
3DMARK2005 Score		PASS	1025

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Score	Intel (R) Core (TM)2 Duo CPU P8400 2.26GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-00LSA0 80GB	PASS	6372
3DMARK2003 Score		PASS	2149
3DMARK2005 Score		PASS	1535

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Score	Intel (R) Core (TM)2 Quad CPU Q9100 2.26GHz Transcend DDR3 1066 1GB (K4B1G0846D) Hitachi HDS728080PLA380 82.3GB	PASS	6710
3DMARK2003 Score		PASS	2192
3DMARK2005 Score		PASS	1518

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Score	Intel Celeron Processor 575 2GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	4408
3DMARK2003 Score		PASS	1639
3DMARK2005 Score		PASS	1306

Windows XP SP2

WEIGHTED SUITE	Test Environment	Result	Remark
3DMARK2001 Score	Intel(R) Core(TM)2 Duo CPU T7500 2.2GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	5443
3DMARK2003 Score		PASS	1921
3DMARK2005 Score		PASS	1427

5.5 3D MARK2006

Windows XP SP2

Item	WEIGHTED SUITE	Test Environment	Result	Remark
1	3DMARK Score	Intel (R) Core (TM)2 Duo CPU T7700 2.4GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	726
2	SM2.0 Score		PASS	218
3	HDR/SM3.0 Score		PASS	287
4	CPU Score		PASS	1966

Windows XP SP2

Item	WEIGHTED SUITE	Test Environment	Result	Remark
1	3DMARK Score	Intel (R) Core (TM)2 Duo CPU T7100 1.8GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	207
2	SM2.0 Score		PASS	62
3	HDR/SM3.0 Score		PASS	80
4	CPU Score		PASS	1571

Windows XP SP2

Item	WEIGHTED SUITE	Test Environment	Result	Remark
1	3DMARK Score	Intel (R) Core (TM)2 Duo CPU T9600 2.8GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	301
2	SM2.0 Score		PASS	93
3	HDR/SM3.0 Score		PASS	113
4	CPU Score		PASS	2481

Windows XP SP2

Item	WEIGHTED SUITE	Test Environment	Result	Remark
1	3DMARK Score	Intel (R) Core (TM)2 Duo CPU T8300 2.4GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	178
2	SM2.0 Score		PASS	53
3	HDR/SM3.0 Score		PASS	68
4	CPU Score		PASS	1952

Windows XP SP2

Item	WEIGHTED SUITE	Test Environment	Result	Remark
1	3DMARK Score	Intel (R) Core (TM)2 Duo CPU P8400 2.26GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-00LSA0 80GB	PASS	1006
2	SM2.0 Score		PASS	275
3	HDR/SM3.0 Score		PASS	431
4	CPU Score		PASS	1914

Windows XP SP2

Item	WEIGHTED SUITE	Test Environment	Result	Remark
1	3DMARK Score	Intel (R) Core (TM)2 Quad CPU Q9100 2.26GHz Transcend DDR3 1066 1GB (K4B1G0846D) Hitachi HDS728080PLA380 82.3GB	PASS	941
2	SM2.0 Score		PASS	290
3	HDR/SM3.0 Score		PASS	362
4	CPU Score		PASS	3174

Windows XP SP2

Item	WEIGHTED SUITE	Test Environment	Result	Remark
1	3DMARK Score	Intel Celeron Processor 575 2GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	674
2	SM2.0 Score		PASS	193
3	HDR/SM3.0 Score		PASS	287
4	CPU Score		PASS	884

Windows XP SP2

Item	WEIGHTED SUITE	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM)2 Duo CPU T7500 2.2GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB	PASS	768
2	SM2.0 Score		PASS	217
3	HDR/SM3.0 Score		PASS	319
4	CPU Score		PASS	1827

5.6 PC MARK2002

Test Environment
Intel (R) Core (TM)2 Duo CPU T7700 2.4GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	CPU Score	PASS	9483
2	Memory Score	PASS	29883
3	HDD Score	PASS	1366

Test Environment
Intel (R) Core (TM)2 Duo CPU T7100 1.8GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	CPU Score	PASS	7132
2	Memory Score	PASS	15008
3	HDD Score	PASS	1378

Test Environment

**Intel (R) Core (TM)2 Duo CPU T9600 2.8GHz
Transcend DDR3 1066 2GB (K4B1G0846D)
Western Digital WD800JD-75MSA3 80GB**

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	CPU Score	PASS	11053
2	Memory Score	PASS	34081
3	HDD Score	PASS	1369

Test Environment

**Intel (R) Core (TM)2 Duo CPU T8300 2.4GHz
Transcend DDR3 1066 2GB (K4B1G0846D)
Western Digital WD800JD-75MSA3 80GB**

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	CPU Score	PASS	9435
2	Memory Score	PASS	28294
3	HDD Score	PASS	1383

Test Environment
Intel (R) Core (TM)2 Duo CPU P8400 2.26GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-00LSA0 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	CPU Score	PASS	8923
2	Memory Score	PASS	25005
3	HDD Score	PASS	1392

Test Environment
Intel (R) Core (TM)2 Quad CPU Q9100 2.26GHz Transcend DDR3 1066 1GB (K4B1G0846D) Hitachi HDS728080PLA380 82.3GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	CPU Score	PASS	8849
2	Memory Score	PASS	27709
3	HDD Score	PASS	1112

Test Environment
Intel Celeron Processor 575 2GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	CPU Score	PASS	7828
2	Memory Score	PASS	9551
3	HDD Score	PASS	1404

Test Environment
Intel(R) Core(TM)2 Duo CPU T7500 2.2GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	CPU Score	PASS	8715
2	Memory Score	PASS	27417
3	HDD Score	PASS	1290

5.7 PC MARK2004

Test Environment
Intel (R) Core (TM)2 Duo CPU T7700 2.4GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP PS2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	N/A
2	CPU Score	PASS	N/A
3	Memory Score	PASS	7835
4	Graphic Score	PASS	1429
5	HDD Score	PASS	N/A

Test Environment
Intel (R) Core (TM)2 Duo CPU T7100 1.8GHz A-DATA DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP PS2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	5617
2	CPU Score	PASS	6048
3	Memory Score	PASS	5252
4	Graphic Score	PASS	1423
5	HDD Score	PASS	4109

Test Environment

**Intel (R) Core (TM)2 Duo CPU T9600 2.8GHz
A-DATA DDR3 1066 2GB (K4B1G0846D)
Western Digital WD800JD-75MSA3 80GB**

Windows XP PS2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	N/A
2	CPU Score	PASS	N/A
3	Memory Score	PASS	10287
4	Graphic Score	PASS	1503
5	HDD Score	PASS	N/A

Test Environment

**Intel (R) Core (TM)2 Duo CPU T8300 2.4GHz
A-DATA DDR3 1066 2GB (K4B1G0846D)
Western Digital WD800JD-75MSA3 80GB**

Windows XP PS2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	N/A
2	CPU Score	PASS	N/A
3	Memory Score	PASS	4651
4	Graphic Score	PASS	1452
5	HDD Score	PASS	4098

Test Environment

**Intel (R) Core (TM)2 Duo CPU P8400 2.26GHz
A-DATA DDR3 1066 1GB (K4B1G0846D)
Western Digital WD800JD-00LSA0 80GB**

Windows XP PS2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	N/A
2	CPU Score	PASS	N/A
3	Memory Score	PASS	6980
4	Graphic Score	PASS	1439
5	HDD Score	PASS	4483

Test Environment

**Intel (R) Core (TM)2 Quad CPU Q9100 2.26GHz
Transcend DDR3 1066 1GB (K4B1G0846D)
Hitachi HDS728080PLA380 82.3GB**

Windows XP PS2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	N/A
2	CPU Score	PASS	N/A
3	Memory Score	PASS	8946
4	Graphic Score	PASS	1479
5	HDD Score	PASS	4323

Test Environment

**Intel Celeron Processor 575 2GHz
Transcend DDR3 1066 2GB (K4B1G0846D)
Western Digital WD800JD-75MSA3 80GB**

Windows XP PS2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	4167
2	CPU Score	PASS	4467
3	Memory Score	PASS	4629
4	Graphic Score	PASS	1326
5	HDD Score	PASS	4806

Test Environment

**Intel(R) Core(TM)2 Duo CPU T7500 2.2GHz
Transcend DDR3 1066 2GB (K4B1G0846D)
Western Digital WD800JD-75MSA3 80GB**

Windows XP PS2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	6733
2	CPU Score	PASS	N/A
3	Memory Score	PASS	7344
4	Graphic Score	PASS	1506
5	HDD Score	PASS	4644

5.8 PC MARK2005

Test Environment
Intel (R) Core (TM)2 Duo CPU T7700 2.4GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	4272
2	CPU Score	PASS	6117
3	Memory Score	PASS	4818
4	Graphic Score	PASS	1530
5	HDD Score	PASS	4312

Test Environment
Intel (R) Core (TM)2 Duo CPU T7100 1.8GHz A-DATA DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	3624
2	CPU Score	PASS	4629
3	Memory Score	PASS	3965
4	Graphic Score	PASS	1488
5	HDD Score	PASS	4220

Test Environment
Intel (R) Core (TM)2 Duo CPU T9600 2.8GHz A-DATA DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	4833
2	CPU Score	PASS	7156
3	Memory Score	PASS	5834
4	Graphic Score	PASS	1705
5	HDD Score	PASS	4388

Test Environment
Intel (R) Core (TM)2 Duo CPU T7100 1.8GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	N/A
2	CPU Score	PASS	4623
3	Memory Score	PASS	3952
4	Graphic Score	PASS	N/A
5	HDD Score	PASS	4518

Test Environment
Intel (R) Core (TM)2 Duo CPU T8300 2.4GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	N/A
2	CPU Score	PASS	5005
3	Memory Score	PASS	3740
4	Graphic Score	PASS	N/A
5	HDD Score	PASS	4465

Test Environment
Intel (R) Core (TM)2 Duo CPU T9600 2.8GHz Transcend DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	N/A
2	CPU Score	PASS	7142
3	Memory Score	PASS	5817
4	Graphic Score	PASS	1810
5	HDD Score	PASS	4325

Test Environment
Intel (R) Core (TM)2 Duo CPU P8400 2.26GHz A-DATA DDR3 1066 1GB (K4B1G0846D) Western Digital WD800JD-00LSA0 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	4276
2	CPU Score	PASS	5804
3	Memory Score	PASS	4985
4	Graphic Score	PASS	1667
5	HDD Score	PASS	4740

Test Environment
Intel (R) Core (TM)2 Quad CPU Q9100 2.26GHz Transcend DDR3 1066 1GB (K4B1G0846D) Hitachi HDS728080PLA380 82.3GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	4822
2	CPU Score	PASS	7296
3	Memory Score	PASS	5155
4	Graphic Score	PASS	1732
5	HDD Score	PASS	4867

Test Environment
Intel Celeron Processor 575 2GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	2782
2	CPU Score	PASS	3637
3	Memory Score	PASS	3825
4	Graphic Score	PASS	1344
5	HDD Score	PASS	5119

Test Environment
Intel(R) Core(TM)2 Duo CPU T7500 2.2GHz Transcend DDR3 1066 2GB (K4B1G0846D) Western Digital WD800JD-75MSA3 80GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	4258
2	CPU Score	PASS	5618
3	Memory Score	PASS	4507
4	Graphic Score	PASS	1607
5	HDD Score	PASS	4914

Test Environment
Intel (R) Core (TM)2 Duo CPU T8300 2.4GHz Transcend DDR3 1066 2GB (K4B1G0846D)*2 Western Digital WD3200BPVT-00JJT0 320GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	3193
2	CPU Score	PASS	3733
3	Memory Score	PASS	4166
4	Graphic Score	PASS	1615
5	HDD Score	PASS	4023

Test Environment
Intel (R) Core (TM)2 Duo CPU T8300 2.4GHz Kingston DDR3 1333 4GB (D2568JPUCPGD9U) Western Digital WD3200BPVT-00JJT0 320GB

Windows XP SP2

Item	WEIGHTED SUITE	Result	Remark
1	PCMark Score	PASS	3197
2	CPU Score	PASS	3827
3	Memory Score	PASS	4177
4	Graphic Score	PASS	1456
5	HDD Score	PASS	4055

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
AFAYA MDS	SATA DOM	4 GB	2.4 MB/sec	2.9 MB/sec	0.6ms
Western Digital WD3200BPVT-00JJ5T0	SATA	320 GB	63.3 MB/sec	115.6 MB/sec	18.2ms
Western Digital WD3000JS-22PDB0	SATA	300 GB	53.4 MB/sec	130. MB/sec	31.8ms
Seagate ST3160815AS	SATA	160 GB	59.5 MB/sec	140.5 MB/sec	15.4ms
Western Digital WD800BEVS-00RST0	SATA	80 GB	33.1 MB/sec	87.4 MB/sec	17.7ms
Western Digital WD800JD-75MSA3	SATA	80 GB	47.2 MB/sec	136.3 MB/sec	18.6ms
Western Digital WD800JD-00LSA0	SATA	80 GB	46.6 MB/sec	123.5 MB/sec	13.6ms
Intel SSDSC2CT060A3	SSD	60 GB	204.2 MB/sec	120.4 MB/sec	0.2ms
ADATA Flash Drive C906	USB	8 GB	17.9 MB/sec	17.5 MB/sec	0.8ms

TDK LoR Trans-It Drive	USB	4 GB	16.6 MB/sec	12.4 MB/sec	0.8ms
Apacer USB FLASH DRIVE	USB	515 MB	9 MB/sec	4.5 MB/sec	1.8 ms
ACTIONS USB DISK DEVICE	USB	261 MB	0.5 MB/sec	0.5 MB/sec	5.9ms

5.9.2 CD-ROM

Test environment:

OS Windows XP professional SP2

Program (NERO)

CD-ROM MODEL	INTERFACE	Average speed	Full READ	Burst Rate	CD
LG DVD GSA-H62L	SATA	27.93 x	163ms	39 MB/s	52 X CD-R
PIONEER DVD DVR-212BK	SATA	24.37 x	141 ms	46 MB/s	52 X CD-R
ASUS DVD DRW-1814BLT	SATA	23.76 x	115 ms	44 MB/s	52 X CD-R
LITEON DVD SOSC-2485KX	USB	14.37 x	123ms	21 MB/s	52 X CD-R
LITEON DVD SOSW-833XS	USB	11.87 x	126ms	21 MB/s	52X CD-R

5.10 Vibration Test

Motherboard	HS-771		
Test Equipment	VS-5060L		
Amplitude	Frequency	Time (1min/1Time)	Result
0.75mm	5 → 55 → 5 Hz	10	PASS
1.00mm	5 → 55 → 5 Hz	10	PASS
1.25mm	5 → 55 → 5 Hz	10	PASS
1.5mm	5 → 55 → 5 Hz	10	PASS
1.5mm	5 → 55 → 5 Hz	120	PASS