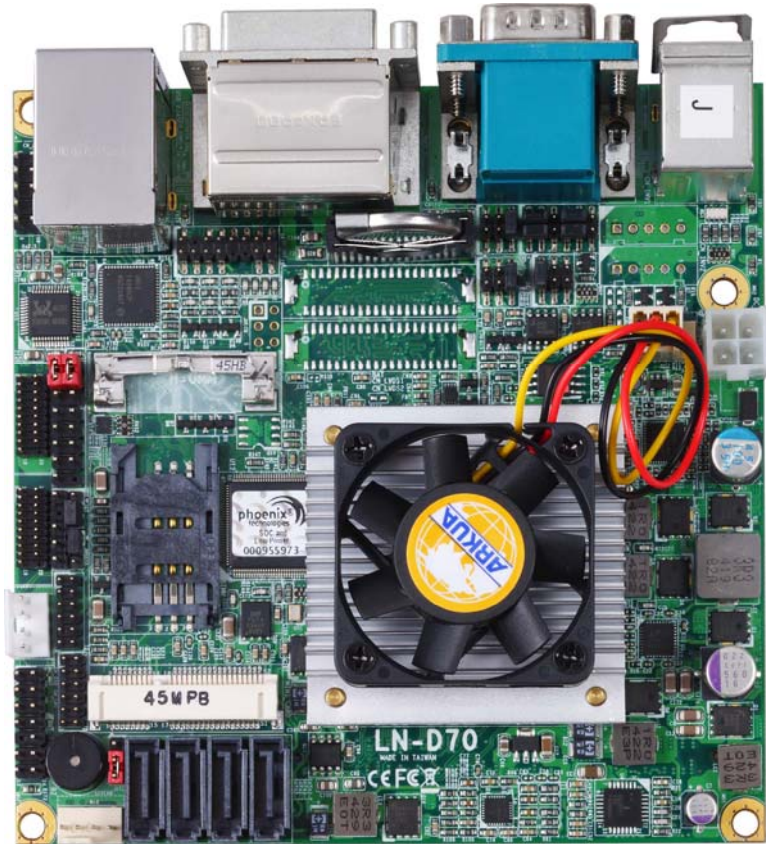


Product Test Report



Product Name	LN-D70
Product Version	A
Issued Date	2015.06.01
Report Edition	1.01
BIOS Version	1.1

Testing Engineer	LARRY
Check Engineer	WU DEI WEI

REVISION HISTORY			
DATE	REVISION NO.	PAGE	DESCRIPTONS
2014.11.13	Ver. 1.0	70	Initial Release

Index

1. Function test	5
1.1 Hardware function.....	5
1.2 BIOS function	7
1.3 Driver	8
2. Compatibility test	10
2.1 CPU Test.....	10
2.2 Operation System Test	10
2.3 Memory Test	10
2.4 Display port Graphic Quality Test	11
2.5 CRT Graphic Quality Test.....	11
2.6 Audio	12
2.7 HDD Test	13
2.8 DVD-ROM Test	13
2.9 USB device Test	14
2.10 Serial Port Test	15
2.11 PS/2 Keyboard 、 Mouse Test.....	16
2.12 LAN Test.....	17
2.13 PCI Express mini card	17
2.14 Power Supply Test	18
3. Environmental test	18
3.1.1 Temperature Test.....	18
3.1.2 Thermal measurements at various points on the board	21
3.2.1 Temperature Test.....	24
3.2.2 Thermal measurements at various points on the board	27
4. Reliability Test	29
4.1 Power Consumption Test	29

5. Performance Test	32
5.1 Performance Test	32
5.2 3D MARK(2001SE 、 2003 、 2005)	43
5.3 3D MARK2006	52
5.4 PC MARK2002.....	61
5.5 PC MARK2004.....	64
5.6 PC MARK2005.....	67
5.7 Storage Performance	70

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	DC_IN	PASS
6	DC_OUT	PASS
7	DDR3L	PASS
8	LAN	PASS
9	CPU FAN	PASS
10	SYS FAN	PASS
11	PS/2	PASS
12	SATA2 1 / 2	PASS
13	SATA3 1 / 2	PASS
14	USB2.0 1 / 2 / 3	PASS
15	USB3.0	PASS
16	MINI_PCIE	PASS
17	RS422-485	PASS
18	COM 1 / 2	PASS
19	CN_COM 3 / 4 / 5 / 6	PASS
20	Display port	PASS
21	DVI	PASS
22	CN_LVDS 1 / 2	PASS

23	CN_INV 1 / 2	PASS
24	CN_CRT	PASS
25	CN_AUDIO	PASS
26	CN_DIO	PASS
27	CN_LPC	PASS

Jumper

Item	Description	Result
1	JRTC	PASS
2	JAT	PASS
3	JVLCD	PASS
4	JMSATA	PASS
5	JVUSB	PASS
6	JCSEL1	PASS
7	JCSEL2	PASS
8	JP1	PASS
9	JP2	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	Date & Time Setting	PASS	
4	NumLock	PASS	
5	Quick Boot	PASS	
6	Diagnostic Splash Screen	PASS	
7	Diagnostic Summary Screen	PASS	
8	View Error Manager Log	PASS	
9	Clear Error Manager Log	PASS	
10	Legacy Boot	PASS	
11	Select Language	PASS	
12	PowerLoss	PASS	
13	SATA Device	PASS	
14	LAN Configuration PXE ROM	PASS	
15	CPU Smart Fan Control	PASS	
16	SYS Smart Fan Control	PASS	
17	Serial Port	PASS	
18	Watch Dog Timer Select	PASS	
19	Power On By RTC Alarm	PASS	
20	Set Supervisor Password	PASS	
21	Set User Password	PASS	
22	Exit Saving Changes	PASS	
23	ADP-TPM	PASS	
24	VCORE, 3.3V, 5V, 5VSB, 12V, VBAT	PASS	
25	Interface Combination	PASS	

1.3 Driver

CD Edition : DIPCi1-1.0

1. Windows 8.1 32-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.0
2	Graphic Driver	PASS	36.15.0.1073
3	LAN Driver	PASS	12.11.97.0
4	Audio Driver	PASS	6.0.1.6914

2. Windows 8.1 64-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.0
2	Graphic Driver	PASS	36.15.0.1073
3	LAN Driver	PASS	12.11.97.0
4	Audio Driver	PASS	6.0.1.6914

3. Windows 8 32-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.0
2	Graphic Driver	PASS	36.15.0.1073
3	LAN Driver	PASS	12.11.97.0
4	Audio Driver	PASS	6.0.1.6914

4. Windows 8 64-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.0
2	Graphic Driver	PASS	10.18.10.3621
3	LAN Driver	PASS	12.11.97.0
4	Audio Driver	PASS	6.0.1.6914

5. Windows 7 32-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.0
2	Graphic Driver	PASS	36.15.0.1073
3	LAN Driver	PASS	12.11.97.0
4	Audio Driver	PASS	6.0.1.6914

6. Windows 7 64-bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.0
2	Graphic Driver	PASS	10.18.10.3621
3	LAN Driver	PASS	12.11.97.0
4	Audio Driver	PASS	6.0.1.6914

2. Compatibility test

2.1 CPU Test

Test environment:

OS Windows 7

Test program : PC MARK 2005

Spec	CPU Speed	Family	Processor	MAX TDP	Smart Cache	Result
SR1SC	2 GHz	Celeron	J1900	10W	2 MB	PASS
SR1W3	1.83 GHz	Celeron	N2930	7.5W	2 MB	PASS
SR1RE	1.91 GHz	Atom	E3845	10W	2 MB	PASS

2.2 Operation System Test

Item	Description	Result	Remark
1	Windows 8.1 32/64-bit	PASS	
2	Windows 8 32/64-bit	PASS	
3	Windows 7 32/64-bit	PASS	

2.3 Memory Test

Test environment:

OS Windows 7

Test program : PC MARK 2005

Manufacturer	Chip	Frequency	Capacity Mbytes	Result
ACPI	SKhynix H5TC4G83AFR PBA	DDR3L 1600	8 GB	PASS

Kingston	Kingston D512BEC4BPGG8U	DDR3L 1600	4GB	PASS
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2.4 Display port Graphic Quality Test

Test environment:

OS Windows 7 32-bit

Driver version :

Resolution	Color	Result	Remark
800*600	16 / 32bit	PASS	
1024*768	16 / 32bit	PASS	
1152*864	16 / 32bit	PASS	
1280*720	16 / 32bit	PASS	
1280*800	16 / 32bit	PASS	
1280*960	16 / 32bit	PASS	
1280*1024	16 / 32bit	PASS	
1440*900	16 / 32bit	PASS	
1680*1050	16 / 32bit	PASS	
1920*1080	16 / 32bit	PASS	

2.5 CRT Graphic Quality Test

Test environment:

OS Windows 7 32-bit

Driver version : 36.15.0.1073

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	

2.6 Audio

Test environment:

OS Windows 8.1 32 & 64-bit

Driver version : 6.0.1.6914

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	

OS Windows 8 32 & 64-bit

Driver version : 6.0.1.6914

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	

OS Windows 7 32 & 64-bit

Driver version : 6.0.1.6914

Item	Description	Result	Remark
1	2 CH	PASS	
2	Microphone	PASS	

2.7 HDD Test

Test environment: OS Windows 7

Model	Interface	Capacity	Size Detect	Data Transfer
Western Digital WD10EALX-009BA0	SATA	1.0 TB	PASS	PASS
Western Digital WD5000AAKX	SATA	500GB	PASS	PASS

2.8 DVD-ROM Test

Test environment: OS Windows 7

Model	Interface	Detect	Data Transfer	Play DVD
ASUS DRW-24D1ST	SATA	PASS	PASS	PASS

PIONEER DVR-S19LBK	SATA	PASS	PASS	PASS
LITEON eTAU108	USB	PASS	PASS	PASS

2.9 USB device Test

1. MS-DOS

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 7 32& 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	

3. Windows 8 32& 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	

4. Windows 8.1 32& 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	

2.10 Serial Port Test

1. MS-DOS

Item	Description	Result	Remark
1	RS-422 & RS-485	PASS	

2. Windows 7 32&64-bit

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

3. Windows 8 32&64-bit

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

4. Windows 8.1 32&64-bit

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

2.11 PS/2 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 7 32&64-bit

Item	Description ⁴	Result	Remark
1	Keyboard LED Status Test	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

3. Windows 8 32&64-bit

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

4. Windows 8.1 32&64-bit

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

-10 HR. continuous

1. Windows 7 32 & 64-bit

32/64-bit driver version : 12.11.97.0

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

2. Windows 8 32& 64-bit

32/64-bit driver version : 12.11.97.0

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

3. Windows 8.1 32& 64-bit

32/64-bit driver version : 12.11.97.0

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

2.13 PCI Express mini card

Motherboard	PCI Express mini card	Remark
LN-D70	MPX-210	PASS

	MPX-643	NO SUPPORT
	MPX-885	PASS
	MPX-954	PASS
	MPX-5201	PASS
	MPX-7202	NO SUPPORT
	MPX-9125	NO SUPPORT
	MPX-24794G2	PASS(Note1)
	MPX-25858	PASS
	MPX-7767	PASS
	MPX750	NO SUPPORT

Note 1 : It needs add msvcp100.dll & msucr100.dll , and 64-bit OS needs to disable driver signature enforcement.

2.14 Power Supply Test

Item	TYPE	Description	Result	Remark
1	ATX Power	AcBel ATX-350P-DNSS 500W	PASS	
2	ATX Power	HIGH POWER HPC-250-101 A/OEM	PASS	
3	ATX Power	CX500 CMPSU-500CX V2	PASS	

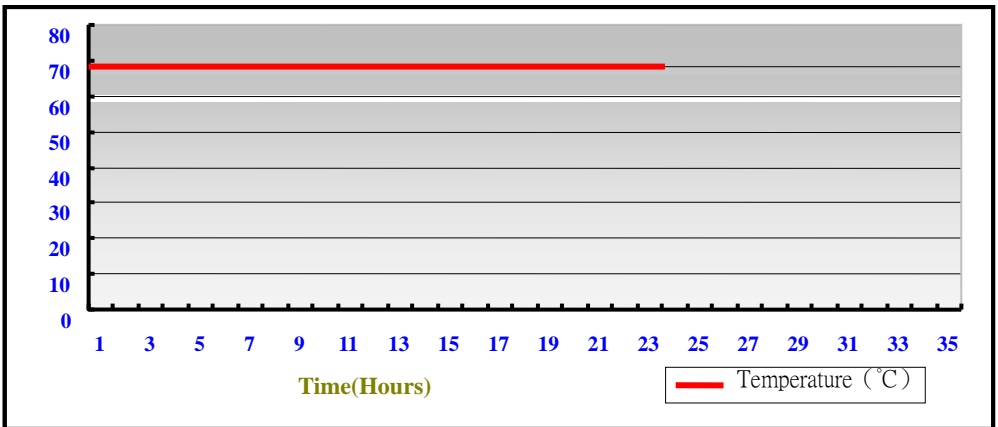
3. Environmental test

3.1.1 Temperature Test

System Board	LN-D70
--------------	--------

CPU	Intel(R) Celron(TM) J1900 2.0GHz
Memory	ACPI DDR3L 1600 8GB x1 (SKhynix H5TC4G83AFR PBA)
HDD	Western Digital WD10EALX-009BA0 1.0T
Operating OS	Windows 7 64-bit
Test Equipment	GIANT FORCE (GTH-150-60-CP-AR)
Test Program	3DMark 2006 \ PRIM95

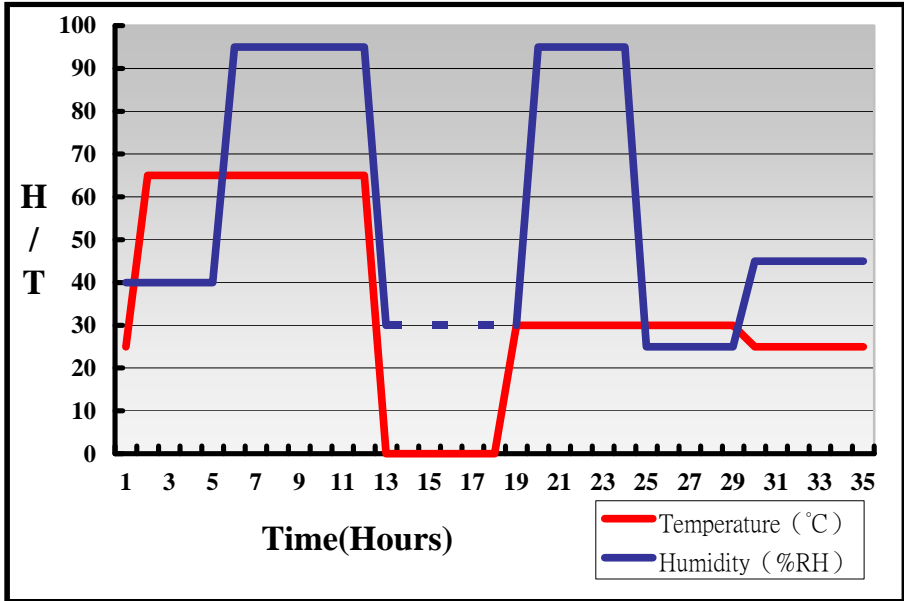
Temperature



Hardware Device list:

System Board	LN-D70
CPU	Intel(R) Celron(TM) J1900 2.0GHz
Memory	ACPI DDR3L 1600 8GB x1 (SKhynix H5TC4G83AFR PBA)
HDD	Western Digital WD10EALX-009BA0 1.0TB

Operating OS	Windows 7 64-bit
Test Equipment	GIANT FORCE (GTH-150-60-CP-AR)
Test Program	3DMark 2006 、PRIM95



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	LN-D70
CPU	Intel(R) Celron(TM) J1900 2.0GHz
Memory	ACPI DDR3L 1600 8GB x1 (SKhynix H5TC4G83AFR PBA)
HDD	Western Digital WD10EALX-009BA0 1.0TB

Operating OS	Windows 7 64-bit
---------------------	-------------------------

Temperature	Result	Remark
70°C	PASS	50 Times
-40°C	PASS	50 Times

3.1.2 Thermal measurements at various points on the board

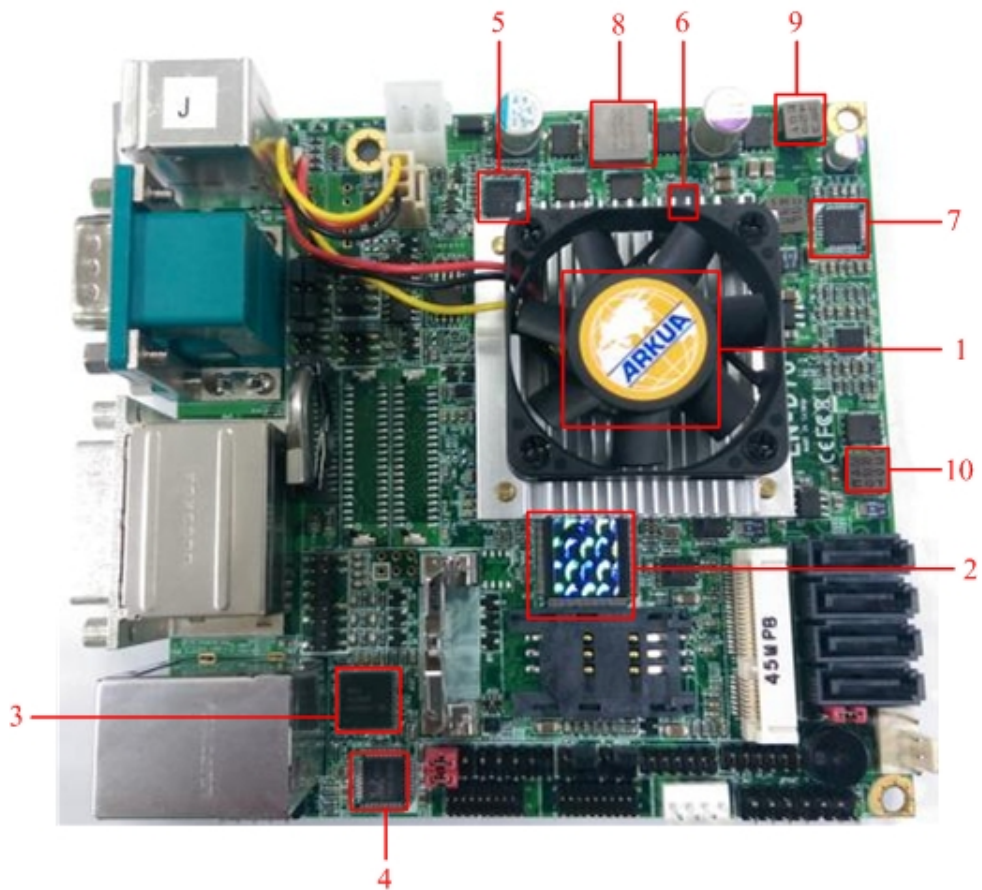
Test Environment :

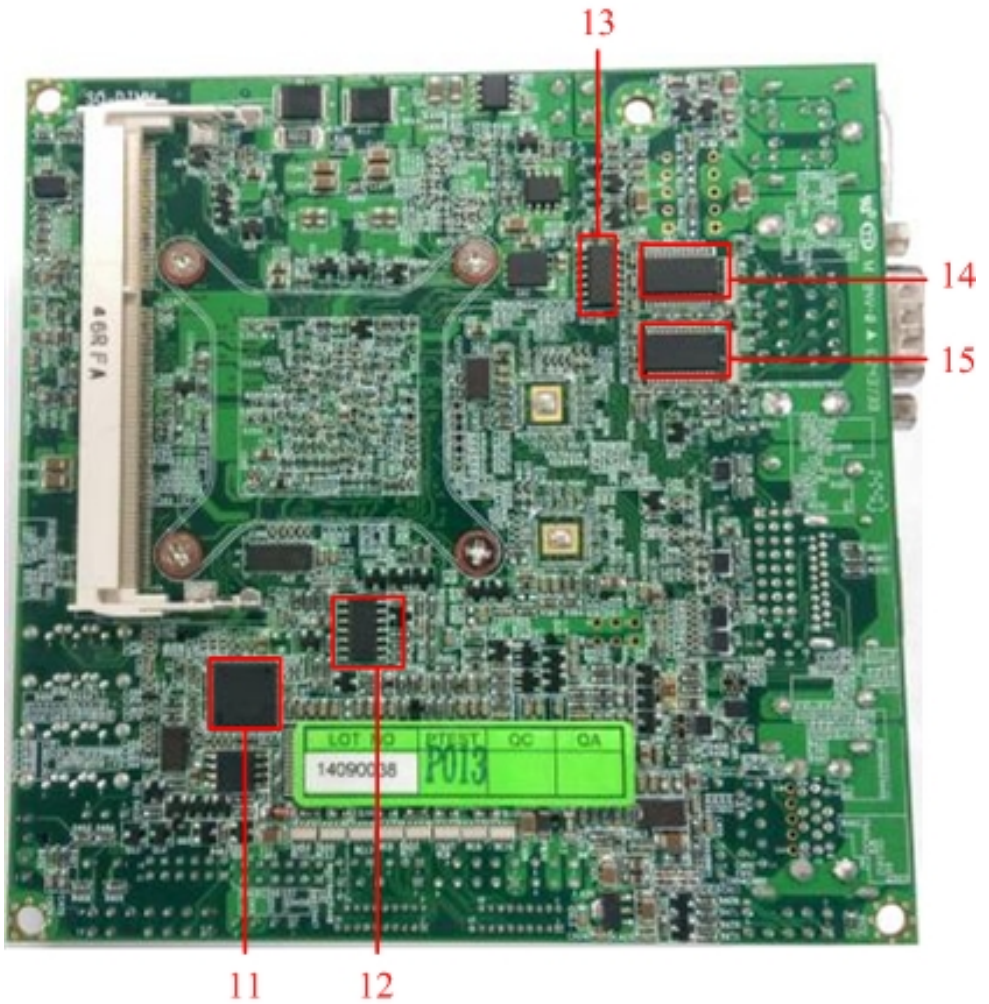
CPU	Intel(R) Celron(TM) J1900 2.0GHz
Memory	ACPI DDR3L 1600 8GB x1 (SKhynix H5TC4G83AFR PBA)
HDD	Western Digital WD10EALX-009BA0 1.0TB
Power	CX500 CMPSU-500CX V2
Operating System	Windows 7
Test Program	B3DMark 2006 、 PRIM95

Test Result:

Item	Environmental temperature	26.0°C
1	CPU	31.8°C
2	U12(ICNCT6106D+OBLPSB-1)	44.9°C
3	U13(ICI210-AT)	38.3°C
4	U15(ICHALC262-VD2-GR)	49.3°C
5	U1(ISL95831HRTZ)	35.5°C
6	U3(ISWLTC3780)	41.1°C

7	U4(ISL6537CR)	38.4°C
8	LC2(LLC3.3UH/0445)	31.1°C
9	LC1(LLC3.3UH/063T)	36.2°C
10	LC3(LLC3.3UH/063T)	43.6°C
11	U29(IC88SE9125)	48.1°C
12	U25(ITS74HC14)	41.0°C
13	U16(ITS74F125)	31.2°C
14	U17(ICADM213ECA-T)	28.6°C
15	U18(ICADM213ECA-T)	28.4°C



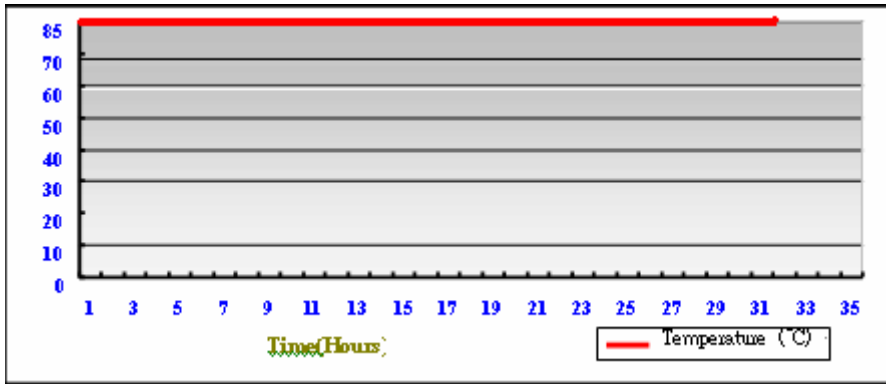


3.2.1 Temperature Test

System Board	LN-D70
CPU	Intel(R) Atom(TM) E3845 1.91GHz

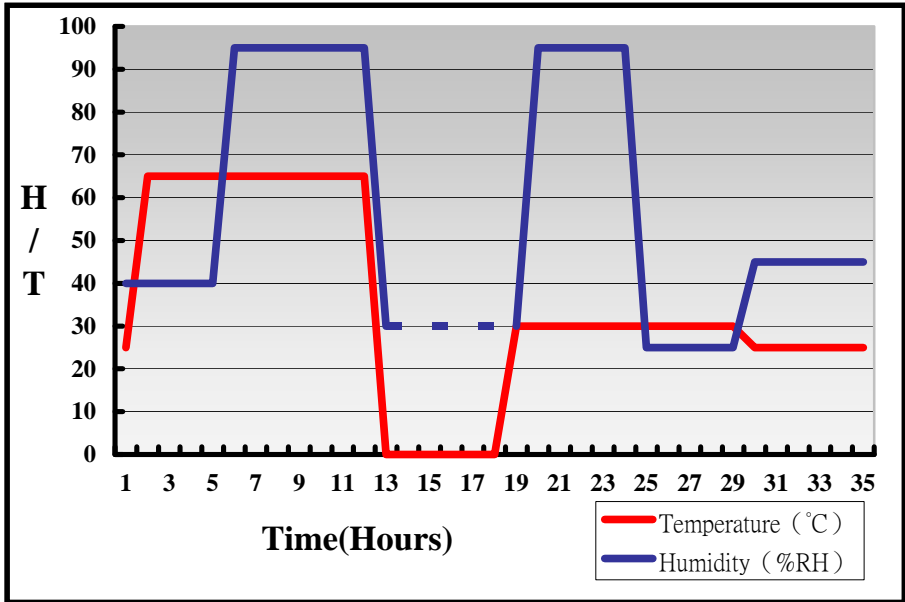
Memory	ACPI DDR3L 1600 8GB x1 (SKhynix H5TC4G83AFR PBA)
HDD	Western Digital WD10EALX-009BA0 1.0T
Operating OS	Windows 7 64-bit
Test Equipment	GIANT FORCE (GTH-150-60-CP-AR)
Test Program	3DMark 2006 、 PRIM95

Temperature



Hardware Device list:

System Board	LN-D70
CPU	Intel(R) Atom(TM) E3845 1.91GHz
Memory	ACPI DDR3L 1600 8GB x1 (SKhynix H5TC4G83AFR PBA)
HDD	Western Digital WD10EALX-009BA0 1.0TB
Operating OS	Windows 7 64-bit
Test Equipment	GIANT FORCE (GTH-150-60-CP-AR)
Test Program	3DMark 2006 、 PRIM95



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	LN-D70
CPU	Intel(R) Atom(TM) E3845 1.91GHz
Memory	ACPI DDR3L 1600 8GB x1 (SKhynix H5TC4G83AFR PBA)
HDD	Western Digital WD10EALX-009BA0 1.0TB
Operating OS	Windows 7 64-bit

Temperature	Result	Remark
-------------	--------	--------

85°C	PASS	50 Times
-45°C	PASS	50 Times

3.2.2 Thermal measurements at various points on the board

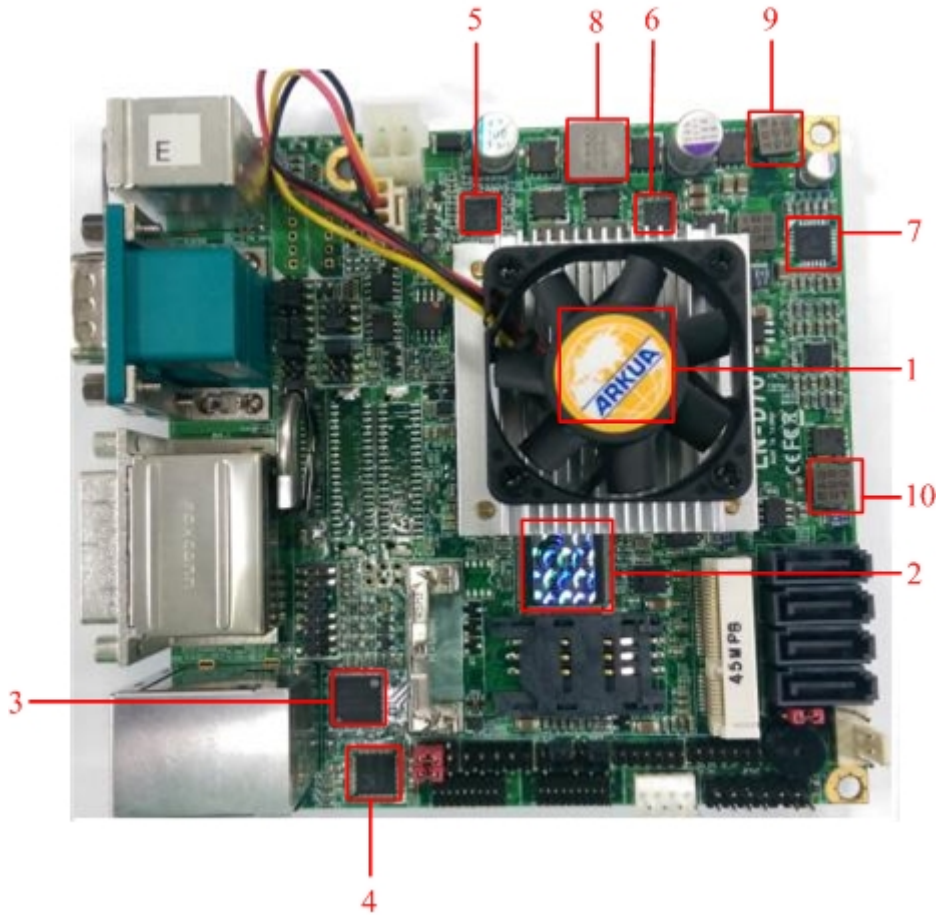
Test Environment :

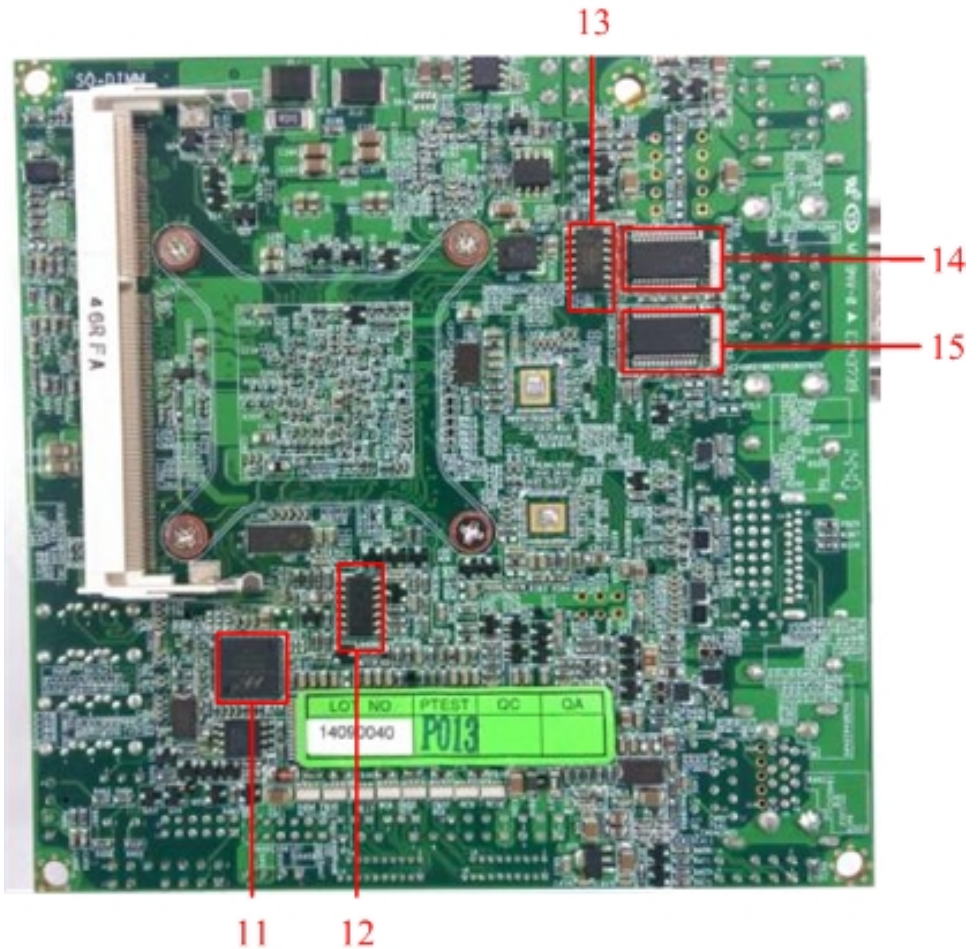
CPU	Intel(R) Atom(TM) E3845 1.91GHz
Memory	ACPI DDR3L 1600 8GB x1 (SKhynix H5TC4G83AFR PBA)
HDD	Western Digital WD10EALX-009BA0 1.0TB
Power	CX500 CMPSU-500CX V2
Operating System	Windows 7
Test Program	3DMark 2006 、 PRIM95

Test Result:

Item	Environmental temperature	26.0°C
1	CPU	31.0°C
2	U12(ICNCT6106D+OBLPSB-1)	40.8°C
3	U13(ICI210-AT)	37.1°C
4	U15(ICHALC262-VD2-GR)	41.0°C
5	U1(ISL95831HRTZ)	31.9°C
6	U3(ISWLTC3780)	42.4°C
7	U4(ISL6537CR)	41.3°C
8	LC2(LLC3.3UH/0445)	36.1°C
9	LC1(LLC3.3UH/063T)	40.9°C

10	LC3(LLC3.3UH/063T)	46.0°C
11	U29(IC88SE9125)	54.2°C
12	U25(ITS74HC14)	46.7°C
13	U16(ITS74F125)	33.5°C
14	U17(ICADM213ECA-T)	29.7°C
15	U18(ICADM213ECA-T)	29.0°C





4. Reliability Test

4.1 Power Consumption Test

1. Test Environment:

Motherboard	LN-D70
CPU	Intel(R) Celron(TM) J1900 2.0GHz

Memory	ACPI DDR3L 1600 8GB x1
HDD	Western Digital WD10EALX-009BA0 1.0TB

Power Supply : SPS-3610 DC Power Supply

Voltage	MS-DOS Boot up		Win7 32Bit 3DMark2006+Prime95-255a	
	Current (A)	Power (W)	Current (A)	Power (W)
6V	2.11	12.66	3.65	21.9
12V	0.89	11.76	1.62	19.44
27V	0.41	11.07	0.7	18.9

1.a.Test Environment:

The same as above but with LCD panel

Display Panel	AUO G150XG01 V.3 15”LCD
---------------	-------------------------

Power Supply : SPS-3610 DC Power Supply

Voltage	MS-DOS Boot up		Win7 32Bit 3DMark2006+Prime95-255a	
	Current (A)	Power (W)	Current (A)	Power (W)
10V	1.65	16.5	2.56	25.6
12V	1.36	16.32	2.10	25.2
27V	0.4	10.8	0.9	24.3

PS: Execute 3DMark2006 + Prime95-255a input voltage must above 10V

2.Test Environment:

Motherboard	LN-D70
CPU	Intel(R) Atom(TM) N2930 1.83GHz
Memory	ACPI DDR3L 1600 8GB x1

HDD	Western Digital WD10EALX-009BA0 1.0TB
-----	---------------------------------------

Power Supply : SPS-3610 DC Power Supply

Voltage	MS-DOS Boot up		Win7 32Bit 3DMark2006+Prime95-255a	
	Current (A)	Power (W)	Current (A)	Power (W)
6V	1.74	10.44	3.56	21.36
12V	0.83	9.96	1.51	18.12
27V	0.39	10.53	0.63	17.01

2.a.Test Environment:

The same as above but with LCD panel

Display Panel	AUO G150XG01 V.3 15”LCD
---------------	-------------------------

Power Supply : SPS-3610 DC Power Supply

Voltage	MS-DOS Boot up		Win7 32Bit 3DMark2006+Prime95-255a	
	Current (A)	Power (W)	Current (A)	Power (W)
10V	1.61	16.1	2.48	24.8
12V	1.3	15.6	2	24
27V	0.61	16.47	0.71	19.17

PS: Execute 3DMark2006 + Prime95-255a input voltage must above 10V

3.Test Environment:

Motherboard	LN-D70
CPU	Intel(R) Atom(TM) E3845 1.91GHz
Memory	ACPI DDR3L 1600 8GB x1
HDD	Western Digital WD10EALX-009BA0 1.0TB

Power Supply : SPS-3610 DC Power Supply

Voltage	MS-DOS Boot up		Win7 32Bit 3DMark2006+Prime95-255a	
	Current (A)	Power (W)	Current (A)	Power (W)
6V	1.71	10.26	3.07	18.42
12V	0.9	10.8	1.5	18
27V	0.25	6.75	0.5	13.5

3.a.Test Environment:

The same as above but with LCD panel

Display Panel	AUO G150XG01 V.3 15”LCD
---------------	-------------------------

Power Supply : SPS-3610 DC Power Supply

Voltage	MS-DOS Boot up		Win7 32Bit 3DMark2006+Prime95-255a	
	Current (A)	Power (W)	Current (A)	Power (W)
10V	1.65	16.5	2.34	23.4
12V	1.36	16.32	1.91	22.92
27V	0.46	12.42	0.68	18.36

PS: Execute 3DMark2006 + Prime95-255a input voltage must above 10V

5. Performance Test

5.1 Performance Test

Windows 7 32-bit

Weighted Suite	Test Environment	Result	Remark
----------------	------------------	--------	--------

Performance Test 7.0	Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PassMark Rating 526.8 CPU Mark 1254.4 2D Graphics Mark 135.2 3D Graphics Mark 143.2 Memory Mark 382.1 Disk Mark 868.9
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Windows 7 64-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 7.0	Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 640.6 CPU Mark 1775.8 2D Graphics Mark 136.9 3D Graphics Mark 142.3 Memory Mark 804.8 Disk Mark 759.0

Windows 8 32-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 8.0	Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 557 CPU Mark 1147 2D Graphics Mark 161.1 3D Graphics Mark 132.5 Memory Mark 449.4 Disk Mark 856

Windows 8 64-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 8.0	Intel(R) Atom(TM) E3845 1.91GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 637 CPU Mark 1662 2D Graphics Mark 182.5 3D Graphics Mark 132 Memory Mark

			706 Disk Mark 903
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Windows 8.1 32-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 8.0	Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) WD10EALX-009BA0 1.0TB		PassMark Rating 160 CPU Mark 1152 2D Graphics Mark 146.3 3D Graphics Mark 15.8 Memory Mark 507 Disk Mark 795

Windows 8.1 64-bit

Weighted Suite	Test Environment	Result	Remark
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Performance Test 8.0	Intel(R) Atom(TM) E3845 1.91GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 638 CPU Mark 1681 2D Graphics Mark 180.1 3D Graphics Mark 5347 Memory Mark 728 Disk Mark 887
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Windows 7 32-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 7.0	Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 582.5 CPU Mark 1382.4 2D Graphics Mark 161.3 3D Graphics Mark 146.2 Memory Mark 462.8 Disk Mark 892.8

Windows 7 64-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 7.0	Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 694.8 CPU Mark 1983.5 2D Graphics Mark 147.6 3D Graphics Mark 148.6 Memory Mark 923.6 Disk Mark 799.3

Windows 8 32-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 8.0	Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 587 CPU Mark 1296 2D Graphics Mark 182.6 3D Graphics Mark 127.4 Memory Mark

			551 Disk Mark 851
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Windows 8 64-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 8.0	Intel(R) Celeron(TM) N2930 1.83GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 654 CPU Mark 1841 2D Graphics Mark 202.6 3D Graphics Mark 119.8 Memory Mark 759 Disk Mark 904

Windows 8.1 32-bit

Weighted Suite	Test Environment	Result	Remark
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Performance Test 8.0	Intel(R) Celeron(TM) N2930 1.83GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PassMark Rating 168.8 CPU Mark 1288 2D Graphics Mark 164.2 3D Graphics Mark 16.5 Memory Mark 554 Disk Mark 864
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Windows 8.1 64-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 8.0	Intel(R) Celeron(TM) N2930 1.83GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 731 CPU Mark 1854 2D Graphics Mark 201.9 3D Graphics Mark 163.6 Memory Mark 768 Disk Mark 800

Windows 7 32-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 7.0	Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 699.5 CPU Mark 1555.3 2D Graphics Mark 172.5 3D Graphics Mark 146.4 Memory Mark 467.1 Disk Mark 883.6

Windows 7 64-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 7.0	Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 758.6 CPU Mark 2206.9 2D Graphics Mark 171.4 3D Graphics Mark 147.7 Memory Mark

			1036.6 Disk Mark 846.9
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Windows 8 32-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 8.0	Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 625 CPU Mark 1432 2D Graphics Mark 201.9 3D Graphics Mark 131.5 Memory Mark 589 Disk Mark 853

Windows 8 64-bit

Weighted Suite	Test Environment	Result	Remark
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Performance Test 8.0	Intel(R) Celeron(TM) J1900 2.0GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PassMark Rating 657 CPU Mark 2013 2D Graphics Mark 226.5 3D Graphics Mar 111 Memory Mark 781 Disk Mark 896
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Windows 8.1 32-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 8.0	Intel(R) Celeron(TM) J1900 2.0GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 180.8 CPU Mark 1430 2D Graphics Mark 180.9 3D Graphics Mark 17.6 Memory Mark 581 Disk Mark 823

Windows 8.1 64-bit

Weighted Suite	Test Environment	Result	Remark
Performance Test 8.0	Intel(R) Celeron(TM) J1900 2.0GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB		PassMark Rating 762 CPU Mark 2035 2D Graphics Mark 223.8 3D Graphics Mark 158.5 Memory Mark 818 Disk Mark 834

5.2 3D MARK(2001SE 、 2003 、 2005)

Windows 7 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix	PASS	8431
3DMARK2003 SCORE	H5TC4G83AFR PBA) Western Digital	PASS	5287

3DMARK2005 SCORE	WD10EALX-009BA0 1.0TB	PASS	3416
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Windows 7 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	8134
3DMARK2003 SCORE		PASS	4914
3DMARK2005 SCORE		PASS	3351

Windows 8 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	8032
3DMARK2003 SCORE		PASS	4864
3DMARK2005 SCORE		PASS	3345

Windows 8 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Atom(TM) E3845 1.91GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	8240
3DMARK2003 SCORE		PASS	5290
3DMARK2005 SCORE		PASS	3394

Windows 8.1 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Atom(TM) E3845 1.91GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	1018
3DMARK2003 SCORE		PASS	252
3DMARK2005 SCORE			N/A

Windows 8.1 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Atom(TM) E3845 1.91GHz	PASS	8044
3DMARK2003 SCORE	Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U)	PASS	5831
3DMARK2005 SCORE	Western Digital WD10EALX-009BA0 1.0TB	PASS	3369

Windows 7 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) N2930 1.83GHz	PASS	9229
3DMARK2003 SCORE	ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA)	PASS	5741
3DMARK2005 SCORE	Western Digital WD10EALX-009BA0 1.0TB	PASS	3825

Windows 7 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	8803
3DMARK2003 SCORE		PASS	5323
3DMARK2005 SCORE		PASS	3752

Windows 8 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	8642
3DMARK2003 SCORE		PASS	5269
3DMARK2005 SCORE		PASS	3754

Windows 8 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) N2930 1.83GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	8769
3DMARK2003 SCORE		PASS	5637
3DMARK2005 SCORE		PASS	3774

Windows 8.1 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) N2930 1.83GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	1137
3DMARK2003 SCORE		PASS	282
3DMARK2005 SCORE			N/A

Windows 8.1 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) N2930 1.83GHz	PASS	8603
3DMARK2003 SCORE	Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U)	PASS	5604
3DMARK2005 SCORE	Western Digital WD10EALX-009BA0 1.0TB	PASS	3755

Windows 7 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) J1900 2.0GHz	PASS	9643
3DMARK2003 SCORE	ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA)	PASS	5738
3DMARK2005 SCORE	Western Digital WD10EALX-009BA0 1.0TB	PASS	3825

Windows 7 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	I Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	9195
3DMARK2003 SCORE		PASS	5339
3DMARK2005 SCORE		PASS	3731

Windows 8 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	8887
3DMARK2003 SCORE		PASS	5317
3DMARK2005 SCORE		PASS	3753

Windows 8 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) J1900 2.0GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	9120
3DMARK2003 SCORE		PASS	5528
3DMARK2005 SCORE		PASS	3735

Windows 8.1 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) J1900 2.0GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	1253
3DMARK2003 SCORE		PASS	314
3DMARK2005 SCORE			N/A

Windows 8.1 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2001 SE SCORE	Intel(R) Celeron(TM) J1900 2.0GHz	PASS	9181
3DMARK2003 SCORE	Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U)	PASS	5567
3DMARK2005 SCORE	Western Digital WD10EALX-009BA0 1.0TB	PASS	3700

5.3 3D MARK2006

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Atom(TM) E3845 1.91GHz	PASS	1859
2	SM2.0 SCORE	ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA)	PASS	617
3	HDR/SM3.0 SCORE	Western Digital WD10EALX-009BA0 1.0TB	PASS	727
4	CPU SCORE		PASS	1887

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	1881
2	SM2.0 SCORE		PASS	621
3	HDR/SM3.0 SCORE		PASS	739
4	CPU SCORE		PASS	1890

Windows 8 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	1863
2	SM2.0 SCORE		PASS	608
3	HDR/SM3.0 SCORE		PASS	735
4	CPU SCORE		PASS	1960

Windows 8 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Atom(TM) E3845 1.91GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	1879
2	SM2.0 SCORE		PASS	620
3	HDR/SM3.0 SCORE		PASS	736
4	CPU SCORE		PASS	1963

Windows 8.1 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Atom(TM) E3845 1.91GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB		N/A
2	SM2.0 SCORE			N/A
3	HDR/SM3.0 SCORE			N/A
4	CPU SCORE			N/A

Windows 8.1 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Atom(TM) E3845 1.91GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	1872
2	SM2.0 SCORE		PASS	620
3	HDR/SM3.0 SCORE		PASS	733
4	CPU SCORE		PASS	1902

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	2005
2	SM2.0 SCORE		PASS	676
3	HDR/SM3.0 SCORE		PASS	769
4	CPU SCORE		PASS	2124

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	2017
2	SM2.0 SCORE		PASS	675
3	HDR/SM3.0 SCORE		PASS	780
4	CPU SCORE		PASS	2122

Windows 8 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	2011
2	SM2.0 SCORE		PASS	671
3	HDR/SM3.0 SCORE		PASS	775
4	CPU SCORE		PASS	2211

Windows 8 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) N2930 1.83GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	2020
2	SM2.0 SCORE		PASS	677
3	HDR/SM3.0 SCORE		PASS	777
4	CPU SCORE		PASS	2197

Windows 8.1 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) N2930 1.83GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB		N/A
2	SM2.0 SCORE		PASS	29
3	HDR/SM3.0 SCORE			N/A
4	CPU SCORE			N/A

Windows 8.1 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) N2930 1.83GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	1995
2	SM2.0 SCORE		PASS	669
3	HDR/SM3.0 SCORE		PASS	767
4	CPU SCORE		PASS	2168

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	2009
2	SM2.0 SCORE		PASS	674
3	HDR/SM3.0 SCORE		PASS	766
4	CPU SCORE		PASS	2340

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	2037
2	SM2.0 SCORE		PASS	676
3	HDR/SM3.0 SCORE		PASS	786
4	CPU SCORE		PASS	2329

Windows 8 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB	PASS	2015
2	SM2.0 SCORE		PASS	669
3	HDR/SM3.0 SCORE		PASS	773
4	CPU SCORE		PASS	2427

Windows 8 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) J1900 2.0GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	1976
2	SM2.0 SCORE		PASS	656
3	HDR/SM3.0 SCORE		PASS	756
4	CPU SCORE		PASS	2428

Windows 8.1 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) J1900 2.0GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB		N/A
2	SM2.0 SCORE		PASS	29
3	HDR/SM3.0 SCORE			N/A
4	CPU SCORE			N/A

Windows 8.1 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(TM) J1900 2.0GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB	PASS	2469
2	SM2.0 SCORE		PASS	794
3	HDR/SM3.0 SCORE		PASS	996
4	CPU SCORE		PASS	2381

5.4 PC MARK2002

Test Environment
Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	CPU SCORE		N/A
2	Memory SCORE	PASS	12718
3	HDD SCORE	PASS	3966

Test Environment
Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	CPU SCORE		N/A
2	Memory SCORE	PASS	12453
3	HDD SCORE	PASS	3726

Test Environment
Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0T

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	CPU SCORE		N/A
2	Memory SCORE	PASS	11859
3	HDD SCORE	PASS	3858

Test Environment
Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0T

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	CPU SCORE		N/A
2	Memory SCORE	PASS	13192
3	HDD SCORE	PASS	3296

Test Environment
<p style="text-align: center;"> Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB </p>

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	CPU SCORE		N/A
2	Memory SCORE	PASS	13370
3	HDD SCORE	PASS	3720

Test Environment
<p style="text-align: center;"> Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB </p>

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	CPU SCORE		N/A
2	Memory SCORE	PASS	13891

3	HDD SCORE	PASS	3539
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5.5 PC MARK2004

Test Environment
Intel(R) Atom(TM) E3845 1.91GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE		N/A
3	Memory SCORE	PASS	4193
4	Graphic SCORE	PASS	3745
5	HDD SCORE	PASS	7793
Test Environment			
Intel(R) Atom(TM) E3845 1.91GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB			

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE		N/A
3	Memory SCORE		N/A
4	Graphic SCORE		N/A

5	HDD SCORE		N/A
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Test Environment			
Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0T			

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE		N/A
3	Memory SCORE	PASS	4260
4	Graphic SCORE	PASS	4071
5	HDD SCORE	PASS	5451
Test Environment			
Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0T			

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE		N/A
3	Memory SCORE	PASS	4209
4	Graphic SCORE	PASS	3859
5	HDD SCORE	PASS	4312

Test Environment
Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE		N/A
3	Memory SCORE	PASS	4463
4	Graphic SCORE	PASS	4404
5	HDD SCORE	PASS	7486

Test Environment
Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE		N/A
3	Memory SCORE	PASS	4652
4	Graphic SCORE	PASS	4014
5	HDD SCORE	PASS	8477

5.6 PC MARK2005

Test Environment
Intel(R) Atom(TM) E3845 1.91GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE	PASS	3856
3	Memory SCORE	PASS	3877
4	Graphic SCORE		N/A
5	HDD SCORE	PASS	7953

Test Environment
Intel(R) Atom(TM) E3845 1.91GHz Kingston DDR3L 1600 4GB (Kingston D512BEC4BPGG8U) Western Digital WD10EALX-009BA0 1.0TB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE		N/A
3	Memory SCORE		N/A
4	Graphic SCORE		N/A
5	HDD SCORE		N/A

Test Environment
Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0T

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE	PASS	4350
3	Memory SCORE	PASS	4160
4	Graphic SCORE		N/A
5	HDD SCORE	PASS	8003

Test Environment
Intel(R) Celeron(TM) N2930 1.83GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0T

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE	PASS	4348
3	Memory SCORE	PASS	4172
4	Graphic SCORE		N/A
5	HDD SCORE	PASS	7397

Test Environment
Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE		N/A
3	Memory SCORE		N/A
4	Graphic SCORE		N/A
5	HDD SCORE		N/A

Test Environment
Intel(R) Celeron(TM) J1900 2.0GHz ACPI DDR3L 1600 8GB (SKhynix H5TC4G83AFR PBA) Western Digital WD10EALX-009BA0 1.0TB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PCMark SCORE		N/A
2	CPU SCORE	PASS	4863
3	Memory SCORE	PASS	4450
4	Graphic SCORE	PASS	N/A
5	HDD SCORE	PASS	8598

5.7 Storage Performance

5.7.1 HDD

Test environment:

OS Windows 7

Program (HD Tune)

HDD Model	Interface	Capacity	Average	Burst Rate	Access time
Western Digital WD10EALX-009BA0	SATA	1.0 TB	103.7 MB/sec	134.1 MB/sec	14.3 ms
Western Digital WD5	SATA	500 GB	56.3 MB/sec	64.3 MB/sec	15.6 ms

5.7.2 DVD-ROM

Test environment:

OS Windows 7

Program (NERO)

DVD-ROM Model	Interface	Average Speed	Full Read	Burst Rate	DVD
ASUS DRW-24D1ST	SATA	10.22 x	165 ms	40 MB/s	16 X DVD-R
PIONEER DVR-S19LBK	SATA	10.13 x	145 ms	43 MB/s	16 X DVD-R
LITEON eTAU108	USB	5.18 x	209 ms	16 MB/s	16 X DVD-R