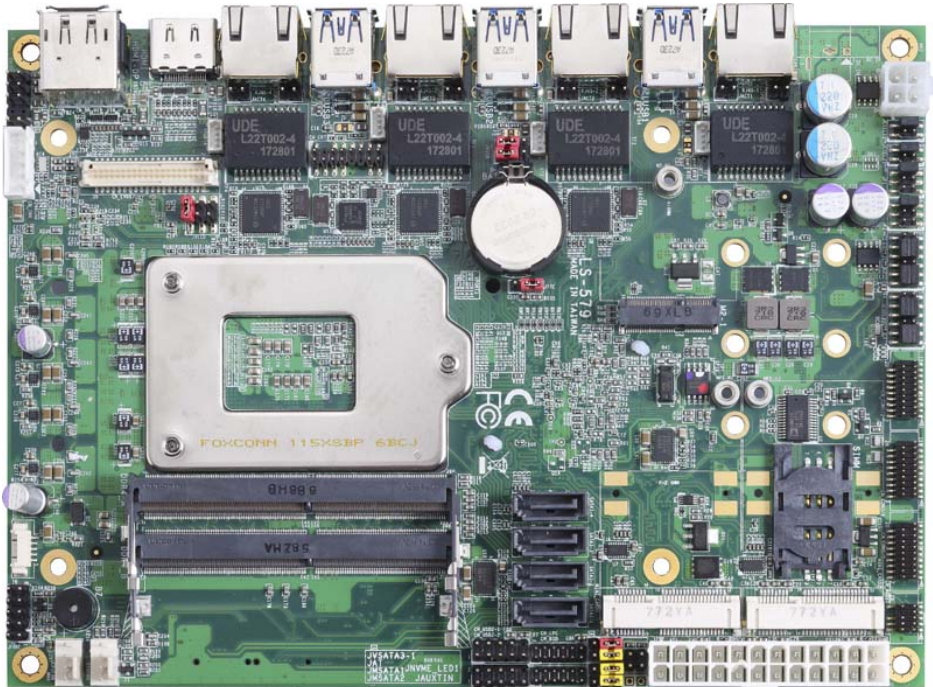


Product Test Report



Product Name	LS-579
Product Version	A
Issued Date	2019.08.30
Report Edition	1.2
BIOS Version	3.0
Testing Engineer	Rick
Check Engineer	Daniel

REVISION HISTORY

DATE	REVISION NO.	PAGE	DESCRIPTONS
2019.04.23	Ver. 1.0	210	Initial Release
2019.08.22	Ver. 1.1	210	Remove CPUs' MAX TDP
2019.08.30	Ver. 1.2	71	Remove CPU for more than 45W

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1. Function test

1.1 Hardware functions

Base Function Test

Item	Description	Result
1	Power Button	PASS
2	Reset	PASS
3	Power LED	PASS
4	HDD LED	PASS
5	CPUFAN	PASS
6	SYSFAN	PASS
7	CN_AUDIO	PASS
8	LAN1	PASS
9	LAN2	PASS
10	LAN3	PASS
11	LAN4	PASS
12	DDR4 A/B	PASS
13	SATA1/2/3/4	PASS
14	USB2.0 1/2/3/4	PASS
15	USB3.0 1/2/3/4/5/6	PASS
16	COM 1/2/3/4/5/6	PASS
17	HDMI	PASS
18	Display Port	PASS
19	CN_CRT	PASS
20	LVDS	PASS
21	MINI_CRAD1	PASS
22	MINI_CRAD2	PASS
23	M2-1 (M.2 Key E)	PASS

24	M2-2 (M.2 Key M)	PASS
25	M2-3 (M.2 Key M)	PASS

Jumper

Item	Description	Result
1	JRTC	PASS
2	JAT	PASS
3	JP1	PASS
4	JP2	PASS
5	JCSEL1	PASS
6	JCSEL2	PASS
7	JVUSB	PASS
8	JVLCD	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	Selection Language	PASS	
6	Quick Boot	PASS	
7	Diagnostic Splash Screen	PASS	
8	Diagnostic Summary Screen	PASS	

Item	Description	Result	Remark
9	Serial Port	PASS	
10	Watch Dog Timer	PASS	
11	SATA Controller(s)	PASS	
12	Power Control	PASS	
13	PS2 Keyboard and Mouse	PASS	
14	HD Audio	PASS	
15	Set Supervisor Password	PASS	
16	Set User Password	PASS	
17	HDD Password	PASS	

1.3 Driver

CD edition : IPCI1-1.4

1. Windows 7 32 bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.1.1
2	VGA Driver	PASS	20.19.15.4352
3	Audio Driver	PASS	6.0.1.7541
4	LAN Driver	PASS	12.13.17.4

2. Windows 7 64 bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.1.1
2	VGA Driver	PASS	15.40.14.64.4352
3	Audio Driver	PASS	6.0.1.7541
4	LAN Driver	PASS	12.13.17.4

3. Windows 8.1 32 bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.1.1
2	Audio Driver	PASS	6.0.1.7541
3	LAN Driver	PASS	12.13.17.4

4. Windows 8.1 64 bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.1.1
2	VGA Driver	PASS	20.19.15.4352
3	Audio Driver	PASS	6.0.1.7541
4	LAN Driver	PASS	12.13.17.4

5. Windows 10 32 bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.1.1
2	Audio Driver	PASS	6.0.1.7541
3	LAN Driver	PASS	12.13.17.4

6. Windows 10 64 bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.1.1
2	VGA Driver	PASS	20.19.15.4352
3	Audio Driver	PASS	6.0.1.7541
4	LAN Driver	PASS	12.13.17.4

2. Compatibility test

2.1 CPU Test

Test environment:

OS: Windows Windows 10 64-bit

Test program : 3D MARK VANTAGE

Spec	CPU Speed	Family	Processor	Smart Cache	Result
SR2LP	3.40GHz	CORE	i7-6700TE	8 MB	PASS
SR339	3.80GHz	CORE	i7-7700T	8 MB	PASS

2.2 Memory Test

Test environment:

OS: Windows 10 64-bit

Test program : 3D MARK VANTAGE

Manufacturer	Chip	Frequency	Capacity Mbytes	Memory test Source
Acpi CMA6-3GA01AA R01M00	SK hynix H5N4G8NMFR	DDR4 2133	8 GB	PASS
Acpi CMA6-3FA01AA R01M00	SK hynix H5N4G8NMFR	DDR4 2133	4 GB	PASS
Kingston KVR21N15D8/8	SK hynix H5AN4G8NMFR	DDR4 2133	8 GB	PASS
Transcend TS1GLH64V1H	SEC 446 BCPB K4A4G085WD	DDR4 2133	8 GB	PASS
Kingston KVR21N15S8/4	SK hynix H5AN4G8NMFR	DDR4 2133	4 GB	PASS

Kingston KVR21E15D8/16	Micro 6PA77 D9SRJ	DDR4 2133	16 GB	PASS
ACPI CMA6-3HD01BAR01 A00	DTCCKN408H1	DDR4 2133	16 GB	PASS
Kingston KVR21SE15D8/1 6	Micro 7WE75 D9VPP	DDR4 2400	4 GB	PASS
Kingston KVR21SE15D8/ 16	Micro 7WE75 D9VPP	DDR4 2400	8 GB	PASS
Kingston KVR21SE15D8/1 6	SKhynix H5AN8GNCJR VKC 830V	DDR4 2400	16 GB	PASS

2.3 CRT Graphic Quality Test

Test environment:

OS Windows 7

Driver version : 20.19.15.4352

Resolution	Color	Result	Remark
800 x 600	16 /32bit	PASS	
1024 x 768	16 /32bit	PASS	
1152 x 864	16 /32bit	PASS	
1280 x 600	16 /32bit	PASS	
1280 x 720	16 /32bit	PASS	
1280 x 768	16 /32bit	PASS	
1280 x 800	16 /32bit	PASS	
1280 x 960	16 /32bit	PASS	
1280 x 1024	16 /32bit	PASS	
1360 x 768	16 /32bit	PASS	

1366 x 768	16 /32bit	PASS	
1400 x 1050	16 /32bit	PASS	
1440 x 900	16 /32bit	PASS	
1600 x 900	16 /32bit	PASS	
1600 x 1200	16 /32bit	PASS	
1680 x 1050	16 /32bit	PASS	
1920 x 1080	16 /32bit	PASS	

2.4 DVI Graphic Quality Test

Test environment:

OS Windows 7

Driver version : 20.19.15.4352

Resolution	Color	Result	Remark
800 x 600	16 /32bit	PASS	
1024 x 768	16 /32bit	PASS	
1152 x 864	16 /32bit	PASS	
1280 x 600	16 /32bit	PASS	
1280 x 720	16 /32bit	PASS	
1280 x 768	16 /32bit	PASS	
1280 x 800	16 /32bit	PASS	
1280 x 960	16 /32bit	PASS	
1280 x 1024	16 /32bit	PASS	
1360 x 768	16 /32bit	PASS	
1366 x 768	16 /32bit	PASS	
1400 x 1050	16 /32bit	PASS	
1440 x 900	16 /32bit	PASS	

1600 x 900	16 /32bit	PASS	
1680 x 1050	16 /32bit	PASS	
1920 x 1080	16 /32bit	PASS	

2.5 Display Port Graphic Quality Test

Test environment:

OS Windows 7

Driver version : 20.19.15.4352

Resolution	Color	Result	Remark
800 x 600	16 /32bit	PASS	
1024 x 768	16 /32bit	PASS	
1152 x 864	16 /32bit	PASS	
1280 x 600	16 /32bit	PASS	
1280 x 720	16 /32bit	PASS	
1280 x 768	16 /32bit	PASS	
1280 x 800	16 /32bit	PASS	
1280 x 960	16 /32bit	PASS	
1280 x 1024	16 /32bit	PASS	
1360 x 768	16 /32bit	PASS	
1366 x 768	16 /32bit	PASS	
1400 x 1050	16 /32bit	PASS	
1440 x 900	16 /32bit	PASS	
1600 x 900	16 /32bit	PASS	
1600 x 1050	16 /32bit	PASS	
1920 x 1080	16 /32bit	PASS	
3840 x 2160	16 /32bit	PASS	

2.6 Audio

Test environment:

OS Windows 7 32/64-bit

Driver version : 6.0.1.7541

Item	Description	Result	Remark
1	2.1CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	

OS Windows 8.1 32/64-bit

Driver version : 6.0.1.7541

Item	Description	Result	Remark
1	2.1CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	

OS Windows 10 32/64-bit

Driver version : 6.0.1.7541

Item	Description	Result	Remark
1	2.1CH	PASS	
2	Microphone	PASS	
3	LINE	PASS	

OS Ubuntu 16.04

Item	Description	Result	Remark
1	2.1CH	PASS	

2.7 HDD Test

Test environment:

OS Windows 7

HDD Model	Interface	Capacity	HDD Size Detect	HDD Data Transfer	HDD LED Check
Western Digital WD800BEVS-00RST0	SATA	80 GB	PASS	PASS	PASS
Seagate ST3160815AS	SATA	160 GB	PASS	PASS	PASS
Western Digital WD3200BEKT-00F3T0	SATA	320 GB	PASS	PASS	PASS
Western Digital WD5000LPCX-22VHAT0	SATA	500 GB	PASS	PASS	PASS
Western Digital WD10EADS-00P8B0	SATA	1.0 TB	PASS	PASS	PASS
TOSHIBA DT01ACA200	SATA	2.0 TB	PASS	PASS	PASS
MemoRight MRSAJ6C064GC125C00	SSD	64 GB	PASS	PASS	PASS

2.8 DVD-ROM Test

Test environment:

OS Windows 7

DVD-ROM Model	Interface	DVD-ROM Detect	DVD-ROM Data Transfer	Play DVD
ASUS DRW-24D1ST	SATA	PASS	PASS	PASS
ASUS DRW-1814BLT	SATA	PASS	PASS	PASS
LITE-ON iHES312	SATA	PASS	PASS	PASS
PIONEER DVR-XD11T	USB	PASS	PASS	PASS
ZYNET GT32N A201	USB	PASS	PASS	PASS

2.9 USB Test

1. Windows 7 32/64-bit

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

2. Windows 8.1 32/64-bit

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

3. Windows 10 32/64-bit

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

4. Ubuntu 16.04

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

2.10 Serial Port Test

1. Windows 7 32/64-bit

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

2. Windows 8.1 32/64-bit

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

3. Windows 10 32/64-bit

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

2.11 PS2 Keyboard 、 Mouse Test

1. Windows 7 32/64-bit

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

2. Windows 8.1 32/64-bit

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

3. Windows 10 32/64-bit

Item	Description	Result	Remark
1	Device Manager Check	PASS	
2	Keyboard Typing Test	PASS	
3	Mouse Detect Test	PASS	

4. Ubuntu 16.04

Item	Description	Result	Remark
1	Device Manager Check	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 7 32/64-bit

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

2. Windows 8.1 32/64-bit

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

3. Windows 10 32/64-bit

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

4. Ubuntu 16.04

Item	Description	Result	Remark
1	Device Manager Check	PASS	

2.13 Power Supply Test

Item	Type	Description	Result	Remark
1	ATX Power	Seasonic SS-520GB 520W	PASS	
2	ATX Power	AcBel PC7008 430W	PASS	
3	ATX Power	Snake SPD-420WS 400W	PASS	
4	ATX Power	Seventeam ST-300BLV 300W	PASS	
5	ATX Power	ENERMAX EG301P-V(E) 300W	PASS	
6	ATX Power	COOLER MASTER RS-390-PMSR-A3 390W	PASS	

2.14 OS Install

Item	Description	Result	Remark
1	Windows 7 32/64 bit	PASS	Only Skylake CPU
2	Windows 8.1 32/64 bit	PASS	Only Skylake CPU
3	Windows 10 32/64 bit	PASS	Only Skylake CPU for 32-bit
4	Ubuntu16.04 (4.8.0-36-generic)	PASS	

2.15 PCI Express Mini Card

Motherboard	PCI Express mini card	Remark
LS-579	MPX-210D	PASS
	MPX-210D2	PASS
	MPX-350	PASS
	MPX-574D	PASS
	MPX-574D2	PASS
	MPX-643	PASS
	MPX-750	PASS
	MPX-827	PASS
	MPX-954	PASS
	MPX-954E	PASS
	MPX-885	PASS
	MPX-3132	No SUPPLY
	MPX-827	PASS
	MPX-5201	PASS

	MPX-6864	PASS
	MPX-7202	PASS
	MPX-8188	PASS
	MPX-9125	PASS
	MPX-24794G2	PASS
	MPX-25858	PASS
	MPX-TP4R	PASS
	MPX-M2EG	PASS (Include M2-210)

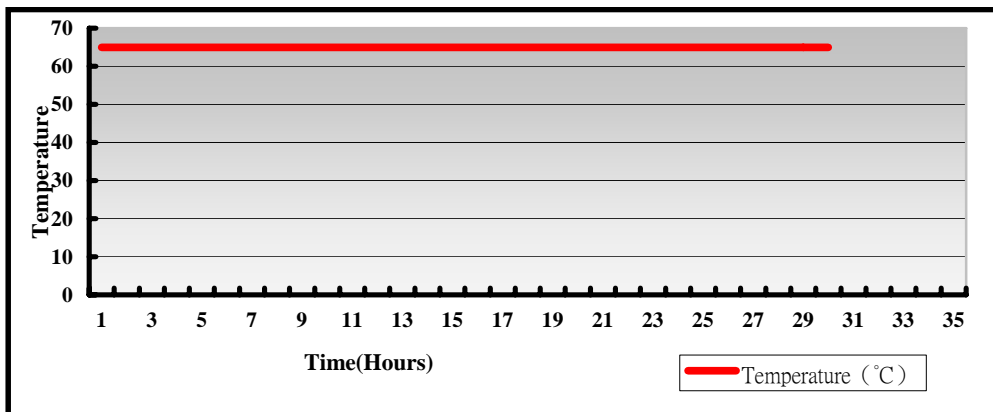
3. Environmental test

3.1 Temperature Test

Hardware Device list:

System Board	LS579T_B
CPU	Intel(R) Core i7-6700TE 3.40GHz
Memory	Kingston DDR4 16GB*2 (SKhynix H5AN8GNCJR VKC 830V)
HDD	TOSHIBA DT01ACA200 2TB
Operating OS	Windows 7
Test Equipment	THERMOTRON 2800 Programmer/Controller
Test Program	3DMark 2006 + Prime95

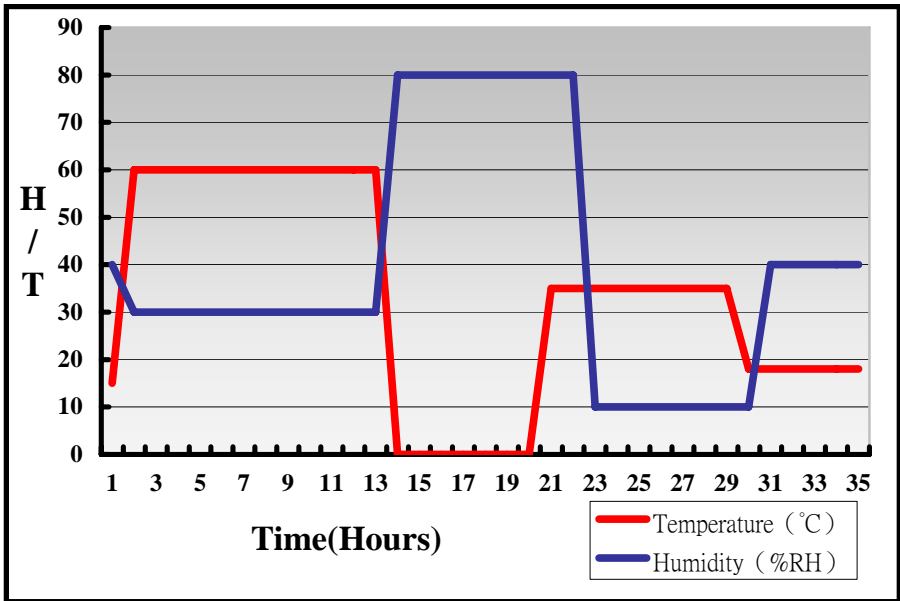
Test Result:



Hardware Device list:

System Board	LS579T_B
CPU	Intel(R) Core i7-6700TE 3.40GHz
Memory	Kingston DDR4 16GB*2 (SKhynix H5AN8GNCJR VKC 830V)
HDD	TOSHIBA DT01ACA200 2TB
Operating OS	Windows 7
Test Equipment	THERMOTRON 2800 Programmer/Controller
Test Program	3DMark 2006 + Prime95

Test Result:



Boot up Test:

Hardware Device list:

System Board	LS579T_B
CPU	Intel(R) Core i7-6700TE 3.40GHz
Memory	Kingston DDR4 16GB*2 (SKhynix H5AN8GNCJR VKC 830V)
HDD	TOSHIBA DT01ACA200 2TB

Temperature	Result	Remark
-40°C	PASS	50 Times
80°C	PASS	50 Times

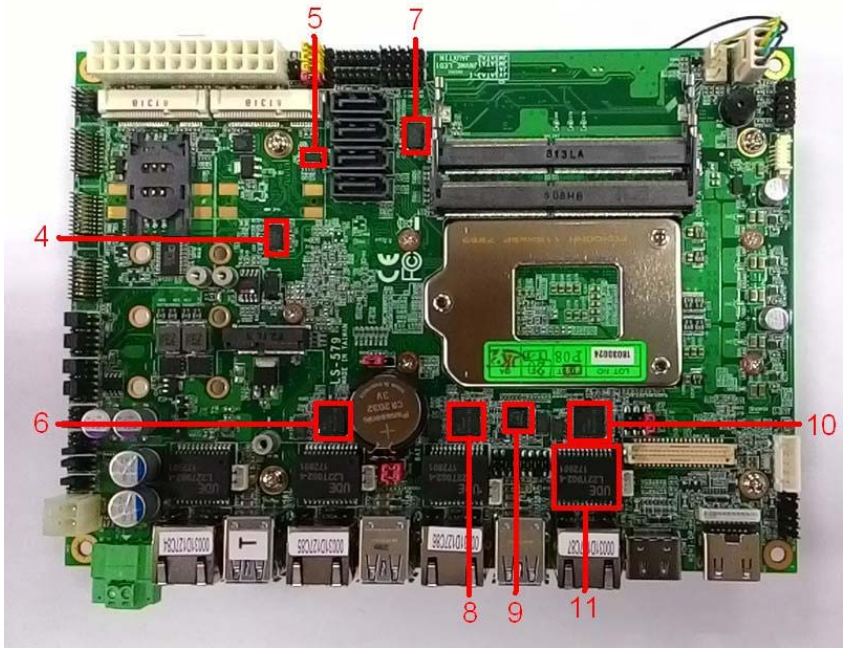
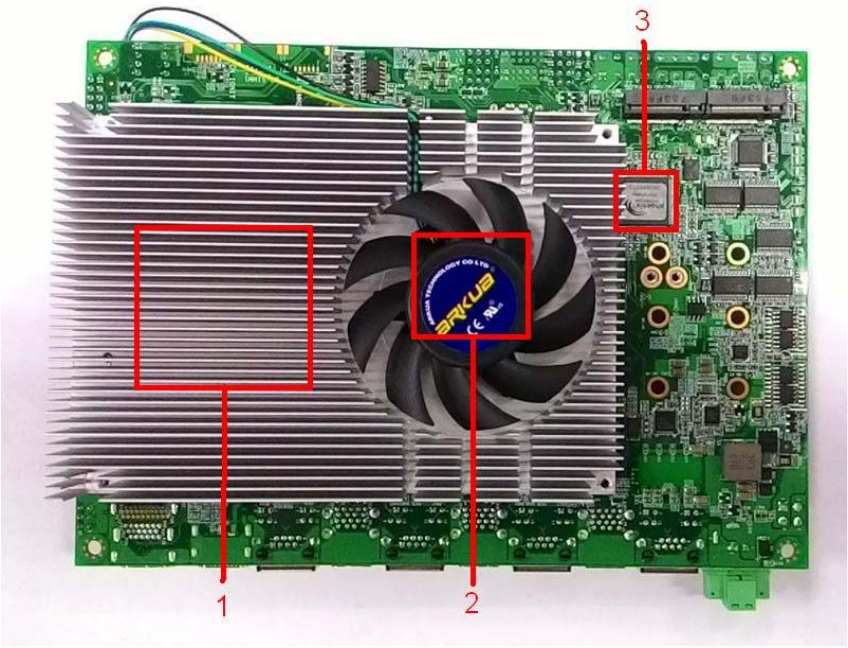
3.2 Thermal measurements at various points on the board

Test Environment:

CPU	Intel(R) Core i7-6700TE 3.40GHz
Memory	Kingston DDR4 16GB*2 (SKhynix H5AN8GNCJR VKC 830V)
HDD	TOSHIBA DT01ACA200 2TB
Power	COOLER MASTER RS-390-PMSR-A3 390W
Operating System	Windows 10 64-bit
Test Program	BurnIn 7.0 Pro + Prime 95

Test Result:

Item	Environmental temperature	24.2°C
1	CPU	52.5°C
2	PCH (ICH236)	47.1°C
3	LPCIO (ICNCT6106D)	39.4°C
4	U6 (ICEN5337QI)	45.6°C
5	U7 (ICEN5337QJ)	39.8°C
6	U8 (ICI210AT)	42.4°C
7	U10 (ICEN5337QI)	49.8°C
8	U11 (ICI210AT)	46.2°C
9	U13 (ICPTN3355BS)	45°C
10	U15 (ICI210AT)	49.3°C
11	TF4 (ICL22T002-4)	39.7°C



4. Reliability Test

4.1 Power Consumption Test

1. Test Environment:

Motherboard	LS-579T
CPU	Intel(R) Core(TM) i7-7700T 3.80GHz
Memory	Kingston DDR4 2133 16GB*2 (Micro 6PA77 D9SRJ)
HDD	TOSHIBA DT01ACA200 2TB

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

Voltage	MS-DOS Boot up		Windows 10 64-bit 3D MARK VANTAGE + PRIME95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.44	17.28	3.23	38.76
5V	1.43	7.15	3.13	15.65
3.3V	0.39	1.287	0.36	1.188
5VSB	0.271	1.355	0.017	0.085

1. a. Test Environment:

The same as above but with LCD

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

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

Voltage	MS-DOS Boot up		Windows 10 64-bit 3D MARK VANTAGE + PRIME95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	2.09	25.08	4.07	48.84
5V	2.29	11.45	3.99	19.95
3.3V	0.54	1.782	0.6	1.98
5VSB	0.285	1.425	0.023	0.115

2. Test Environment:

Motherboard	LS-579T
CPU	Intel(R) Core(TM) i7-6700TE 3.40GHz
Memory	Kingston DDR4 2133 16GB*2 (Micro 6PA77 D9SRJ)
HDD	TOSHIBA DT01ACA200 2TB

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

Voltage	MS-DOS Boot up		Windows 10 64-bit 3D MARK VANTAGE + PRIME95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.23	14.76	2.84	34.08
5V	1.48	7.4	2.94	14.7
3.3V	0.38	1.254	0.36	1.188
5VSB	0.323	1.615	0.003	0.015

2. a. Test Environment:

The same as above but with LCD

Display Panel	LG LM190WX1 19" LCD
----------------------	---------------------

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

Voltage	MS-DOS Boot up		Windows 10 64-bit 3D MARK VANTAGE + PRIME95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	2.11	25.32	4.44	53.28
5V	2.29	11.45	3.49	17.45
3.3V	0.5	1.65	0.52	1.716
5VSB	0.315	1.575	0.015	0.075

5. Performance Test

5.1 3D MARK VANTAGE

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) TOSHIBA DT01ACA200 2TB	PASS	P5813
2	GPU SCORE		PASS	4695
3	CPU SCORE		PASS	20330

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) TOSHIBA DT01ACA200 2TB	PASS	P6005
2	GPU SCORE		PASS	4836
3	CPU SCORE		PASS	21856

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) TOSHIBA DT01ACA200 2TB	PASS	P6605
2	GPU SCORE		PASS	5358
3	CPU SCORE		PASS	21900

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2133 16GB*2 (Micro 6PA77 D9SRJ) TOSHIBA DT01ACA200 2TB	PASS	P6666
2	GPU SCORE		PASS	5411
3	CPU SCORE		PASS	21934

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB	PASS	P5496
2	GPU SCORE		PASS	4413
3	CPU SCORE		PASS	20874

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB	PASS	P5877
2	GPU SCORE		PASS	4731
3	CPU SCORE		PASS	21480

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB	PASS	P6427
2	GPU SCORE		PASS	5212
3	CPU SCORE		PASS	21401

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V) TOSHIBA DT01ACA200 2TB	PASS	P5985
2	GPU SCORE		PASS	4824
3	CPU SCORE		PASS	21534

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V) TOSHIBA DT01ACA200 2TB	PASS	P6462
2	GPU SCORE		PASS	5237
3	CPU SCORE		PASS	21667

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V) TOSHIBA DT01ACA200 2TB	PASS	P6650
2	GPU SCORE		PASS	5397
3	CPU SCORE		PASS	21941

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 16GB*2 (SKhynix H5AN8GNCJR VKC830V) TOSHIBA DT01ACA200 2TB	PASS	P6606
2	GPU SCORE		PASS	5359
3	CPU SCORE		PASS	21880

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Western Digital WD10EADS-00P8B0 1TB	PASS	P6907
2	GPU SCORE		PASS	5561
3	CPU SCORE		PASS	25198

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) Western Digital WD10EADS-00P8B0 1TB	PASS	P7055
2	GPU SCORE		PASS	5689
3	CPU SCORE		PASS	25236

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) Western Digital WD10EADS-00P8B0 1TB	PASS	P8011
2	GPU SCORE		PASS	6520
3	CPU SCORE		PASS	25502

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2133 16GB*2 (Micro 6PA77 D9SRJ) Western Digital WD10EADS-00P8B0 1TB	PASS	P8176
2	GPU SCORE		PASS	6663
3	CPU SCORE		PASS	25633

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Western Digital WD10EADS-00P8B0 1TB	PASS	P6603
2	GPU SCORE		PASS	5308
3	CPU SCORE		PASS	24629

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Western Digital WD10EADS-00P8B0 1TB	PASS	P7080
2	GPU SCORE		PASS	5710
3	CPU SCORE		PASS	25291

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Western Digital WD10EADS-00P8B0 1TB	PASS	P7889
2	GPU SCORE		PASS	6414
3	CPU SCORE		PASS	25423

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V) TOSHIBA DT01ACA200 2TB	PASS	P6053
2	GPU SCORE		PASS	5093
3	CPU SCORE		PASS	13925

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V) Western Digital WD10EADS-00P8B0 1TB	PASS	P7897
2	GPU SCORE		PASS	6424
3	CPU SCORE		PASS	25295

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V) Western Digital WD10EADS-00P8B0 1TB	PASS	P8195
2	GPU SCORE		PASS	6681
3	CPU SCORE		PASS	25569

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 16GB*2 (SKhynix H5AN8GNCJR VKC830V) Western Digital WD10EADS-00P8B0 1TB	PASS	P8251
2	GPU SCORE		PASS	6731
3	CPU SCORE		PASS	25593

5.2 3D MARK (Fire Strike)

1	3D Mark Score	Intel(R) Core(TM) i7-6700TE 3.40GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) TOSHIBA DT01ACA200 2TB	PASS	796
2	Graphics Score		PASS	850
3	Physics Score		PASS	6964
4	Combined Score		PASS	284

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3D Mark Score	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB	PASS	691
2	Graphics Score		PASS	734
3	Physics Score		PASS	6781
4	Combined Score		PASS	249

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3D Mark Score	Intel(R) Core(TM) i7-7700T 3.80GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Western Digital WD10EADS-00P8B0 1TB	PASS	1024
2	Graphics Score		PASS	1107
3	Physics Score		PASS	10236
4	Combined Score		PASS	352

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3D Mark Score	Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Western Digital WD10EADS-00P8B0 1TB	PASS	929
2	Graphics Score		PASS	994
3	Physics Score		PASS	9993
4	Combined Score		PASS	326

5.3 3D MARK (TIME SPY)

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) TOSHIBA DT01ACA200 2TB	PASS	341
2	Graphics SCORE		PASS	296
3	CPU SCORE		PASS	2558

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz	PASS	353
2	Graphics SCORE	ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ)	PASS	306
3	CPU SCORE	TOSHIBA DT01ACA200 2TB	PASS	2770

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz	PASS	373
2	Graphics SCORE	Kingston DDR4 2133 16GB*2 (Micro 6PA77 D9SRJ)	PASS	324
3	CPU SCORE	TOSHIBA DT01ACA200 2TB	PASS	2880

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz	PASS	335
2	Graphics SCORE	Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP)	PASS	291
3	CPU SCORE	TOSHIBA DT01ACA200 2TB	PASS	2524

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz	PASS	352
2	Graphics SCORE	Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP)	PASS	306
3	CPU SCORE	TOSHIBA DT01ACA200 2TB	PASS	2711

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz	PASS	355
2	Graphics SCORE	Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V)	PASS	308
3	CPU SCORE	TOSHIBA DT01ACA200 2TB	PASS	2760

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz	PASS	346
2	Graphics SCORE	Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V)	PASS	300
3	CPU SCORE	TOSHIBA DT01ACA200 2TB	PASS	2684

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6700TE 3.40GHz	PASS	373
2	Graphics SCORE	Kingston DDR4 2400 16GB*2 (SKhynix H5AN8GNCJR VKC830V)	PASS	324
3	CPU SCORE	TOSHIBA DT01ACA200 2TB	PASS	2936

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz	PASS	421
2	Graphics SCORE	Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ)	PASS	366
3	CPU SCORE	Western Digital WD10EADS-00P8B0 1TB	PASS	3049

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz	PASS	421
2	Graphics SCORE	Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ)	PASS	366
3	CPU SCORE	Western Digital WD10EADS-00P8B0 1TB	PASS	3049

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz	PASS	429
2	Graphics SCORE	ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ)	PASS	373
3	CPU SCORE	Western Digital WD10EADS-00P8B0 1TB	PASS	3070

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz	PASS	485
2	Graphics SCORE	Kingston DDR4 2133 16GB*2 (Micro 6PA77 D9SRJ)	PASS	421
3	CPU SCORE	Western Digital WD10EADS-00P8B0 1TB	PASS	3605

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz	PASS	370
2	Graphics SCORE	Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP)	PASS	324
3	CPU SCORE	Western Digital WD10EADS-00P8B0 1TB	PASS	1904

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz	PASS	445
2	Graphics SCORE	Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP)	PASS	387
3	CPU SCORE	Western Digital WD10EADS-00P8B0 1TB	PASS	3261

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz	PASS	379
2	Graphics SCORE	Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V)	PASS	332
3	CPU SCORE	Western Digital WD10EADS-00P8B0 1TB	PASS	1937

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz	PASS	429
2	Graphics SCORE	Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V)	PASS	373
3	CPU SCORE	Western Digital WD10EADS-00P8B0 1TB	PASS	3070

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz	PASS	480
2	Graphics SCORE	Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC830V)	PASS	417
3	CPU SCORE	Western Digital WD10EADS-00P8B0 1TB	PASS	3642

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7700T 3.80GHz	PASS	485
2	Graphics SCORE	Kingston DDR4 2400 16GB*2 (SKhynix H5AN8GNCJR VKC830V)	PASS	421
3	CPU SCORE	Western Digital WD10EADS-00P8B0 1TB	PASS	3605

5.4 x264 FHD Benchmark

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Result	Remark
1	PASS	20.2

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Result	Remark
1	PASS	20.3

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Result	Remark
1	PASS	20.3

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ)*2 TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Result	Remark
1	PASS	20.4

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Result	Remark
1	PASS	20.2

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Result	Remark
1	PASS	20.3

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Result	Remark
1	PASS	20.3

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Result	Remark
1	PASS	20.3

Test Environment		
Intel(R) Core(TM) i7-6700TE 3.40GHz		
Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP)		
Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V)		
TOSHIBA DT01ACA200 2TB		

Windows 10 64-bit

Item	Result	Remark
1	PASS	20.3

Test Environment		
Intel(R) Core(TM) i7-6700TE 3.40GHz		
Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V)*2		
TOSHIBA DT01ACA200 2TB		

Windows 10 64-bit

Item	Result	Remark
1	PASS	20.3

Test Environment		
Intel(R) Core(TM) i7-7700T 3.80GHz		
ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR)		
Western Digital WD10EADS-00P8B0 1TB		

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.3

Test Environment
<p>Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) Western Digital WD10EADS-00P8B0 1TB</p>

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.1

Test Environment
<p>Intel(R) Core(TM) i7-7700T 3.80GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) Western Digital WD10EADS-00P8B0 1TB</p>

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.2

Test Environment
<p>Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ)*2 Western Digital WD10EADS-00P8B0 1TB</p>

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.5

Test Environment
<p>Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Western Digital WD10EADS-00P8B0 1TB</p>

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.3

Test Environment
<p>Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Western Digital WD10EADS-00P8B0 1TB</p>

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.4

Test Environment
<p>Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Western Digital WD10EADS-00P8B0 1TB</p>

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.3

Test Environment
<p>Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) Western Digital WD10EADS-00P8B0 1TB</p>

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.4

Test Environment
<p>Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) Western Digital WD10EADS-00P8B0 1TB</p>

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.4

Test Environment
<p>Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) Western Digital WD10EADS-00P8B0 1TB</p>

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.6

Test Environment
<p>Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V)*2 Western Digital WD10EADS-00P8B0 1TB</p>

Windows 10 64-bit

Item	Result	Remark
1	PASS	22.4

5.5 GeekBench4.3 Compute

Test Environment
<p>Intel(R) Core(TM) i7-6700TE 3.40GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) TOSHIBA DT01ACA200 2TB</p>

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	18758
2	Single-Core Score	PASS	4193
3	Multi-Core Score	PASS	13289

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	16576
2	Single-Core Score	PASS	4044
3	Multi-Core Score	PASS	12042

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	18815
2	Single-Core Score	PASS	4184
3	Multi-Core Score	PASS	13419

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ)*2 TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	18975
2	Single-Core Score	PASS	4275
3	Multi-Core Score	PASS	13560

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	15443
2	Single-Core Score	PASS	3888
3	Multi-Core Score	PASS	11226

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	17371
2	Single-Core Score	PASS	3983
3	Multi-Core Score	PASS	11636

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	17597
2	Single-Core Score	PASS	4179
3	Multi-Core Score	PASS	12719

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	16568
2	Single-Core Score	PASS	4029
3	Multi-Core Score	PASS	12094

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	17962
2	Single-Core Score	PASS	4120
3	Multi-Core Score	PASS	12953

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	17371
2	Single-Core Score	PASS	4158
3	Multi-Core Score	PASS	12815

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V)*2 TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	18954
2	Single-Core Score	PASS	4255
3	Multi-Core Score	PASS	13618

Test Environment
Intel(R) Core(TM) Intel(R) Core(TM) i7-7700T 3.80GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Western Digital WD10EADS-00P8B0 1TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	29700
2	Single-Core Score	PASS	4386
3	Multi-Core Score	PASS	12825

Test Environment
Intel(R) Core(TM) Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) Western Digital WD10EADS-00P8B0 1TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	30563
2	Single-Core Score	PASS	4527
3	Multi-Core Score	PASS	13413

Test Environment
Intel(R) Core(TM) Intel(R) Core(TM) i7-7700T 3.80GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) Western Digital WD10EADS-00P8B0 1TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	35783
2	Single-Core Score	PASS	4580
3	Multi-Core Score	PASS	14412

Test Environment
Intel(R) Core(TM) Intel(R) Core(TM) i7-7700T 3.80GHz AKingston DDR4 2133 16GB (Micro 6PA77 D9SRJ)*2 Western Digital WD10EADS-00P8B0 1TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	39495
2	Single-Core Score	PASS	4774
3	Multi-Core Score	PASS	15259

Test Environment
Intel(R) Core(TM) Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Western Digital WD10EADS-00P8B0 1TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	28295
2	Single-Core Score	PASS	4344
3	Multi-Core Score	PASS	14203

Test Environment			
Intel(R)	Core(TM)	Intel(R)	Core(TM) i7-7700T 3.80GHz
Kingston	DDR4	2400	8GB (Micro 7WE75 D9VPP)
Western Digital	WD10EADS-00P8B0	1TB	

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	30875
2	Single-Core Score	PASS	4458
3	Multi-Core Score	PASS	13158

Test Environment			
Intel(R)	Core(TM)	Intel(R)	Core(TM) i7-7700T 3.80GHz
Kingston	DDR4	2400	4GB (Micro 7WE75 D9VPP)
Kingston	DDR4	2400	8GB (Micro 7WE75 D9VPP)
Western Digital	WD10EADS-00P8B0	1TB	

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	38370
2	Single-Core Score	PASS	4732
3	Multi-Core Score	PASS	14665

Test Environment
Intel(R) Core(TM) Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	19664
2	Single-Core Score	PASS	4408
3	Multi-Core Score	PASS	13579

Test Environment
Intel(R) Core(TM) Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) Western Digital WD10EADS-00P8B0 1TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	33805
2	Single-Core Score	PASS	4541
3	Multi-Core Score	PASS	13677

Test Environment
Intel(R) Core(TM) Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) Western Digital WD10EADS-00P8B0 1TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	39902
2	Single-Core Score	PASS	4678
3	Multi-Core Score	PASS	15029

Test Environment
Intel(R) Core(TM) Intel(R) Core(TM) i7-7700T 3.80GHz Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V)*2 Western Digital WD10EADS-00P8B0 1TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL Score	PASS	40794
2	Single-Core Score	PASS	4692
3	Multi-Core Score	PASS	15197

5.6 CINEBENCH R15

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	40.53 fps
2	CPU	PASS	597 cb

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	41.70 fps
2	CPU	PASS	600 cb

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz ACPI DDR4 2133 4GB (SK hynix H5AN4G8NMFR) Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	47.66 fps
2	CPU	PASS	597 cb

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2133 16GB (Micro 6PA77 D9SRJ)*2 TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	47.90 fps
2	CPU	PASS	601 cb

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	37.36 fps
2	CPU	PASS	597 cb

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	41.59 fps
2	CPU	PASS	598 cb

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	45.03 fps
2	CPU	PASS	599 cb

Test Environment
<p>Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 4GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) TOSHIBA DT01ACA200 2TB</p>

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	45.02 fps
2	CPU	PASS	594 cb

Test Environment
<p>Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 8GB (Micro 7WE75 D9VPP) Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V) TOSHIBA DT01ACA200 2TB</p>

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	44.80 fps
2	CPU	PASS	592 cb

Test Environment
Intel(R) Core(TM) i7-6700TE 3.40GHz Kingston DDR4 2400 16GB (SKhynix H5AN8GNCJR VKC 830V)*2 TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	48.02 fps
2	CPU	PASS	596 cb

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 WD800BEVS-00RST0	SATA	80 GB	34.7 MB/sec	55.6 MB/sec	17.6 ms
Seagate ST3160815AS	SATA	160 GB	59 MB/sec	59.4 MB/sec	16 ms
Western Digital WD3200BEKT-00F3T0	SATA	320 GB	64.2 MB/sec	110.2 MB/sec	15 ms
Western Digital WD5000LPCX-22VHAT0	SATA	500 GB	94.7 MB/sec	183.1 MB/sec	17.4 ms
Western Digital WD10EADS-00P8B0	SATA	1.0 TB	63.2 MB/sec	112.9 MB/sec	15.1 ms
TOSHIBA DT01ACA200	SATA	2.0 TB	126.2 MB/sec	223.3 MB/sec	13.9 ms

HDD Model	Interface	Capacity	Average	Burst Rate	Access Time
MemoRight MRSAJ6C064GC125C00	SSD	64 GB	114 MB/sec	43.5 MB/sec	0.2 ms
KINGSTON DT HyperX 3.0	USB 3.0	64 GB	207.5 MB/sec	97.3 MB/sec	0.6 ms
Silicon-Power	USB	4 GB	1.1 MB/sec	1.1 MB/sec	2.7 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	10.9 x	169 ms	41 MB/s	16 x
ASUS DRW-1814BLT	SATA	8.14 x	185 ms	42 MB/s	16 x
LITE-ON iHES312	SATA	10.82 x	155 ms	41 MB/s	16 x
PIONEER DVR-XD11T	USB	5.56 x	187 ms	19 MB/s	16 x
ZYNET GT32N A201	USB	5.46 x	351 ms	22 MB/s	16 x