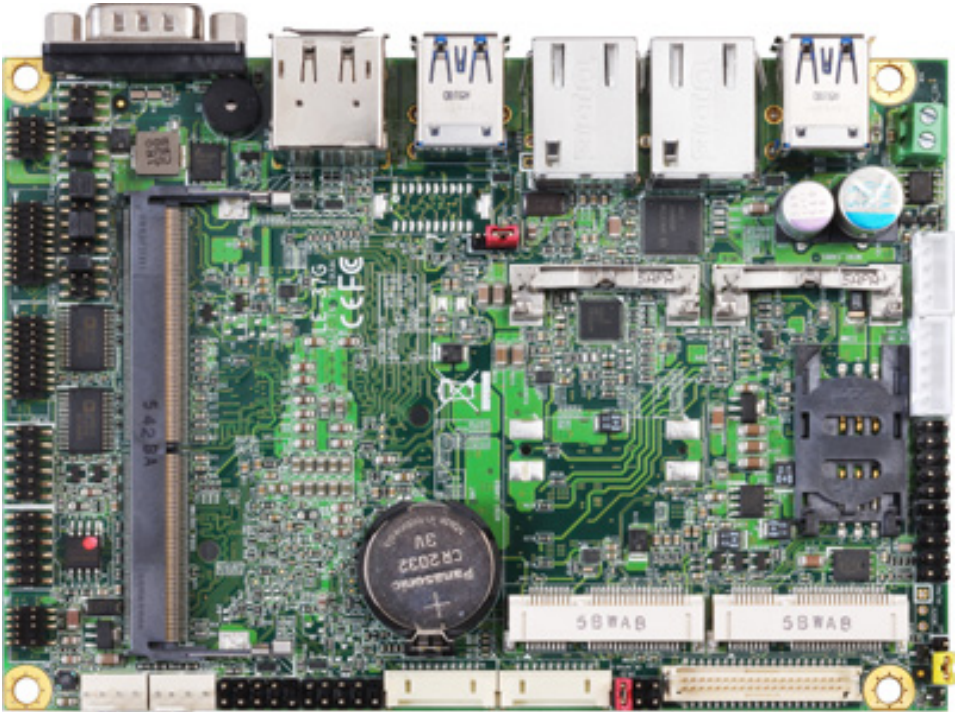


Product Test Report



Product Name	LE-37G
Product Version	C
Issued Date	2020.08.25
Report Edition	1.2
BIOS Version	1.0
Testing Engineer	Rick
Check Engineer	Perry

REVISION HISTORY

DATE	REVISION NO.	PAGE	DESCRIPTONS
2016.10.24	Ver. 1.0	53	Initial Release
2016.11.07	Ver. 1.1	54	Add PCI Express Mini Card
2017.08.09	Ver. 1.2	54	Add Temperature Test
2020.07.27	Ver. 1.3	57	Add Power Consumption
2020.08.25	Ver. 1.4	111	Add CPU for Power Consumption test, 3D / PCMARK scores

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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	PS2	PASS
8	CN_AUDIO	PASS
9	LAN1	PASS
10	LAN2	PASS
11	DDR4	PASS
12	SATA1/2	PASS
13	USB2.0 1/2/3/4	PASS
14	USB3.0 1/2/3/4	PASS
15	COM 1/2/3/4/5/6	PASS
16	HDMI	PASS
17	Display Port	PASS
18	LVDS	PASS
19	MINI_CRAD1	PASS
20	MINI_CRAD2	PASS

Jumper

Item	Description	Result
1	JRTC	PASS
2	JAT	PASS
4	JP1	PASS
5	JP2	PASS
6	JCSEL1	PASS
7	JCSEL2	PASS
8	JVUSB	PASS
9	JMSATA	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	Halt On	PASS	
6	Selection Language	PASS	
7	Serial Port	PASS	
8	Watch Dog Timer	PASS	
9	Set Supervisor Password	PASS	
10	Set User Password	PASS	
11	Set HDD Password	PASS	

Item	Description	Result	Remark
12	Quick Boot	PASS	
13	Diagnostic Splash Screen	PASS	
14	Diagnostic Summary Screen	PASS	
15	Serial Port	PASS	
16	HD Audio configuration	PASS	
17	USB Configuration	PASS	

1.3 Driver

CD edition : IPCI1-1.4

1. Windows 7 32 bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.1.1.13
2	VGA Driver	PASS	20.19.15.4532
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	10.1.1.13
2	VGA Driver	PASS	20.19.15.4532
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	10.1.1.13
2	VGA Driver	PASS	20.19.15.4532
3	Audio Driver	PASS	6.0.1.7541
4	LAN Driver	PASS	12.13.17.4

4. Windows 8.1 64 bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.1.1.13
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	10.1.1.13
2	VGA Driver	PASS	20.19.15.4352
3	Audio Driver	PASS	6.0.1.7541
4	LAN Driver	PASS	12.13.17.4

6. Windows 10 64 bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	10.1.1.13
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 7 & 10

Test program : PC MARK 2005

Spec	CPU Speed	Family	Processor	TDP	Smart Cache	Result
SR2EU	2.30 GHz	Core	i3-6100U	15 W	3 MB	PASS
SR2F0	2.40 GHz	Core	i5-6300U	15 W	3 MB	PASS
SR2F1	2.60 GHz	Core	i7-6600U	15 W	4 MB	PASS
SR343	2.40 GHz	Core	i3-7100U	15 W	3 MB	PASS
SR340	2.60 GHz	Core	i5-7300U	15 W	3 MB	PASS
SR33Z	2.80 GHz	Core	i7-7600U	15 W	4 MB	PASS

2.2 Memory Test

Test environment:

OS: Windows 7

Test program : PC MARK 2005

Manufacturer	Chip	Frequency	Capacity Mbytes	Memory test Score
Acpi DDRIV-2133 SO-DIMM 1.2V	SKhynix H5AN4GBNMFB	DDR4 2133	4 GB	PASS
Acpi DDRIV-2133 SO-DIMM 1.2V	SKhynix H5AN4G8NMFR	DDR4 2133	8 GB	PASS
Acpi DDRIV-2133 SO-DIMM 1.2V	SEC 625 K4A8G08 5WB BCRC	DDR4 2400	16 GB	PASS
Transcend TS1GSH64V1H	SEC 607 K4A4G08 5WE BCRC	DDR4 2133	8 GB	PASS

MEMPHIS D4SO512M644G-A58 HA	SKhynix H5AN4G8NMFR	DDR4 2400	4 GB	PASS
MEMPHIS D4SO1G644G-A58 HA	SKhynix H5AN4G8NMFR	DDR4 2400	8 GB	PASS
MEMPHIS D4SO2G644G-A58 HA	SKhynix H5AN4G8NMFR	DDR4 2400	16 GB	PASS
Kingston KVR21S15D8/8	SKhynix H5AN4G8NMFR	DDR4 2133	8 GB	PASS
Kingston KVR21S15D8/16	Micron 6JB47D9TBH	DDR4 2133	16 GB	PASS
Crucial CT4G4SFS8213	5RA77D9RGQ	DDR4 2133	4 GB	PASS
Transcend TS2GSH64V1B	SEC 622 BCRC K4A8G085WB	DDR4 2133	16 GB	PASS

2.3 HDMI Graphic Quality Test

Test environment:

OS Windows 7 32-bit

Driver version : 20.19.15.4532

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	

2.4 Display Port Graphic Quality Test

Test environment:

OS Windows 7 32-bit

Driver version : 20.19.15.4532

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 800	16 /32bit	PASS	
1280 x 1024	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	

2.5 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	

OS Windows 8.1 32/64-bit

Driver version : 6.0.1.7541

Item	Description	Result	Remark
1	2.1CH	PASS	
2	Microphone	PASS	

OS Windows 10 32/64-bit

Driver version : 6.0.1.7541

Item	Description	Result	Remark
1	2.1CH	PASS	
2	Microphone	PASS	

2.6 HDD Test

Test environment:

OS Windows 7

HDD Model	Interface	Capacity	HDD Size Detect	HDD Data Transfer	HDD LED Check
Western Digital WD3200BEKT-00F3T0	SATA	320 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 WD10EALX-009BA0	SATA	1 TB	PASS	PASS	PASS
Western Digital WD10EADS-00P8B0	SATA	1 TB	PASS	PASS	PASS
TOSHIBA DT01ACA200	SATA	2 TB	PASS	PASS	PASS
Crucial CT120M500SSD3	mSATA	120 GB	PASS	PASS	PASS
InnoDisk DEMSR-32GD06SC2QC	mSATA	32 GB	PASS	PASS	PASS
MemoRight MRSAJ6C064GC125C00	SSD	64 GB	PASS	PASS	PASS
INTEL SSDSC2BW240A4	SSD	240 GB	PASS	PASS	PASS
KINGSTON SV300S37A240G	SSD	240 GB	PASS	PASS	PASS

2.7 DVD-ROM Test

Test environment:

OS Windows 7

DVD-ROM Model	Interface	DVD-ROM Detect	DVD-ROM Data Transfer	Play DVD
ASUS DRW-1814BLT	SATA	PASS	PASS	PASS
PIONEER DVR-S19LBK	SATA	PASS	PASS	PASS
LITE-ON iHES312	SATA	PASS	PASS	PASS
PIONEER DVR-XD11T	USB	PASS	PASS	PASS
LITEON DVD eTAU108	USB	PASS	PASS	PASS

2.8 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	

2.9 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	

2.10 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	

2.11 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)

EtherCAT :

Windows 7 64-bit (I210)

Item	Description	Result	Remark
1	EtherCAT Workbench	PASS	
2	EtherCAT Master	PASS	

2.12 Power Supply & Adapter Test

Item	Type	Description	Result	Remark
1	ATX Power	COOLER MASTER RS-390-PMSR-A3 390W	PASS	
2	ATX Power	SEED BS400 400W	PASS	
3	ATX Power	snake PK-350W 350W	PASS	
4	Adapter	LI SHIN 0219B1280 80W	PASS	
5	Adapter	LI SHIN 0227B19120 120W	PASS	
6	Adapter	FSP GROUP INC. FSP120-AAA 120W	PASS	

2.13 OS Install

Item	Description	Result	Remark
1	Windows 7 32/64 bit	PASS	
2	Windows 8.1 32/64 bit	PASS	
3	Windows 10 32/64 bit	PASS	

2.14 PCI Express Mini Card

Motherboard	PCI Express mini card	Mini Card 1	Mini Card 2	Remark
LE-37G	MPX-210D	PASS	PASS	WIN 7
	MPX-210D2	PASS	PASS	WIN 7
	MPX-350	PASS	PASS	WIN 7 & 8.1
	MPX-574D	PASS	PASS	WIN 7
	MPX-574D2	PASS	PASS	WIN 7
	MPX-643	PASS	PASS	WIN 7
	MPX-885	PASS	PASS	WIN 7
	MPX-6864	PASS	PASS	WIN 7
	MPX-7202	PASS	PASS	WIN 7
	MPX-8188	PASS	PASS	WIN 7
	MPX-9125	PASS	PASS	WIN 7
	MPX-25858	PASS	PASS	WIN 7
	mSATA	NO SUPPLY	PASS	WIN 7 & 8.1

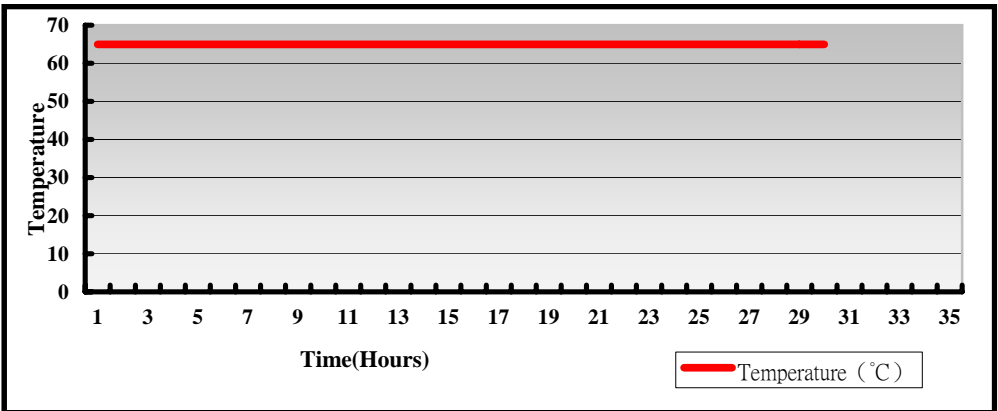
3. Environmental test

3.1 Temperature Test

Hardware Device list:

System Board	LE-37G include Heat Spreader
CPU	Intel(R) Core(TM) i5-6300U 2.40GHz
Memory	ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC)
HDD	Western Digital WD5000LPCX-22VHAT0 500GB
Operating OS	Windows 7
Test Equipment	GIANT FORCE GTH-150-60-SP-AR LCD-9530 Programmer/Controller
Test Program	3DMark 2006 + Prime95

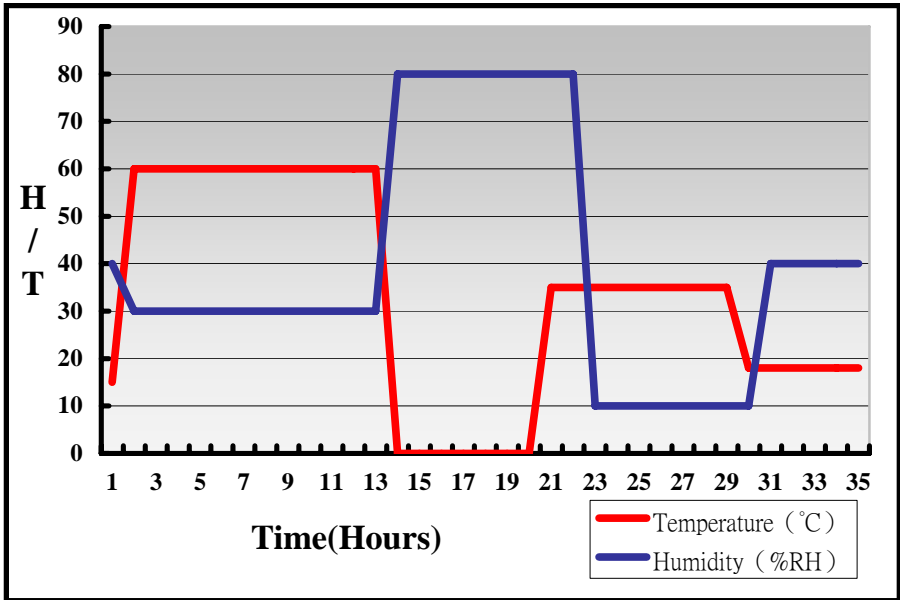
Test Result:



Hardware Device list:

System Board	LE-37G include Heat Spreader
CPU	Intel(R) Core(TM) i5-6300U 2.40GHz
Memory	ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC)
HDD	Western Digital WD5000LPCX-22VHAT0 500GB
Operating OS	Windows 7
Test Equipment	GIANT FORCE GTH-150-60-SP-AR LCD-9530 Programmer/Controller
Test Program	3DMark 2006 + Prime95

Test Result:



Boot up Test:

Hardware Device list:

System Board	LE-37G include Heat Spreader
CPU	Intel(R) Core(TM) i5-6300U 2.40GHz
Memory	ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC)
HDD	Western Digital WD5000LPCX-22VHAT0 500GB

Temperature	Result	Remark
0°C	PASS	50 Times.
65°C	PASS	50 Times

Stress Temp. Test:

Hardware Device list:

System Board	BLE37GXIP5_B include Heat Spreader
CPU	Intel(R) Core(TM) i5-6300U 2.40GHz
Memory	Kingston DDR4 2133 8GB (Micro 6WB77 D9T77)
Adapter	LI SHIN 0218B1270 12V 70W

Temperature	Result	Remark
-40°C	PASS	Runs 4 hours, then every 10 minutes, 3~4 times.
85°C	PASS	Runs 9 hours with BurnIn Test v7

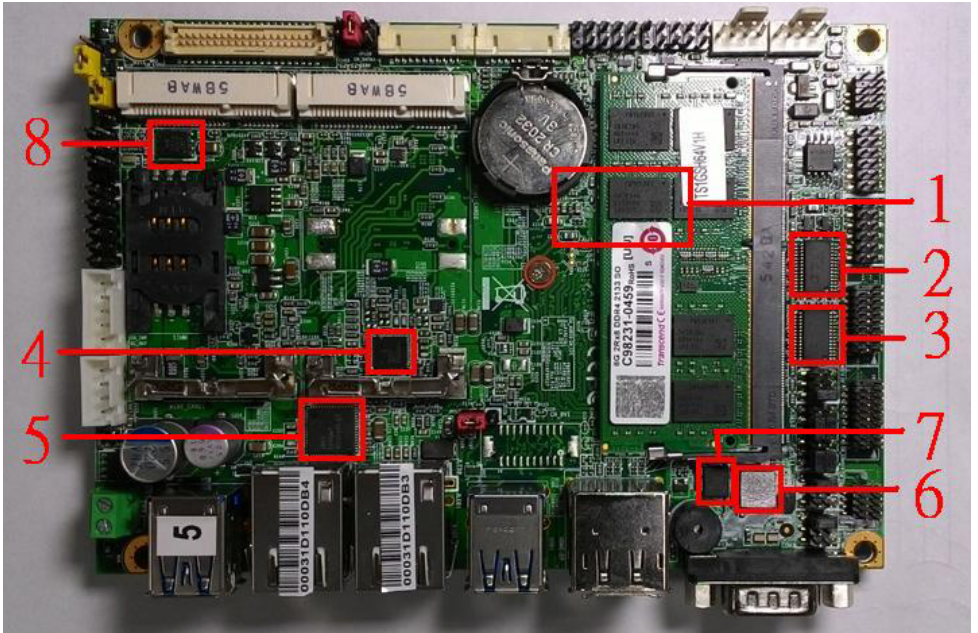
3.2 Thermal measurements at various points on the board

Test Environment:

CPU	Intel(R) Core(TM) i5-6300U 2.40GHz
Memory	Transcend DDR4 8GB(SEC 607 K4A4G08 5WE CRC)
HDD	Western Digital WD5000LPCX-22VHAT0 500GB
Adapter	FSP FSP120-AAA
Operating System	Windows 7 32-bit
Test Program	3DMARK2006+Prime95

Test Result:

Item	Environmental temperature	24.1°C
1	CPU	82°C
2	U1 (ICADM213ECA-T)	63.5°C
3	U2 (ICADM213ECA-T)	62.2°C
4	U15 (ISL95855HRTZ)	58.9°C
5	U16 (ICI210AT)	45.6°C
6	L2 (LLC1UH/063T)	61.6°C
7	Q2 (TMSFDMS3669S)	65.3°C
8	Q16 (TMSIRFH7914PBF)	63.4°C
9	Heatsink	80.2°C



4. Reliability Test

4.1 Power Consumption Test

1. Test Environment:

Motherboard	LE-37G include Heat Spreader
CPU	Intel(R) Core(TM) i5-6300U 2.40GHz
Memory	ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC)
HDD	Western Digital WD5000LPCX-22VHAT0 500GB

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Windows 7 32-bit BurnIn 7.1	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.05	12.6	1.93	23.16
19V	0.81	15.39	1.32	25.08

1. a. Test Environment:

The same as above but with LCD

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

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Windows 7 32-bit BurnIn 7.1	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	3.09	37.08	3.8	49.92
19V	1.89	35.91	2.61	49.59

2. Test Environment:

Motherboard	LE-37G include Heat Spreader
CPU	Intel(R) Core(TM) i3-6100U 2.30GHz
Memory	ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC)
HDD	Western Digital WD5000LPCX-22VHAT0 500GB

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Windows 7 32-bit BurnIn 7.1	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.21	14.52	1.6	19.2
19V	0.83	15.77	1.07	20.33

2. a. Test Environment:

The same as above but with LCD

Display Panel	AUO M170EG01 17”LCD
----------------------	----------------------------

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Windows 7 32-bit BurnIn 7.1	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	3.05	36.6	3.51	42.12
19V	2.01	38.19	2.35	44.65

3. Test Environment:

Motherboard	LE-37G include Heat Spreader
CPU	Intel(R) Core(TM) i7-6600U 2.60 GHz
Memory	Transcend DDR4 2133 16GB (Micro 61B47 T9TBH)
HDD	TOSHIBA DT01ACA200 2TB

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Win10 (64-Bit) 3DMark11 (once) + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.05	12.6	3.28	39.36
19V	0.69	13.11	1.79	34.01

3. a. Test Environment:

The same as above but with LCD

Display Panel	AUO M170EG01 17”LCD
----------------------	----------------------------

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Win10 (64-Bit) 3DMark11 (once) + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	3.43	41.16	5.53	66.36
19V	2.19	41.61	3.04	57.76

4. Test Environment:

Motherboard	LE-37G include Heat Spreader
CPU	Intel(R) Core(TM) i3-7100U 2.40 GHz
Memory	Transcend DDR4 2133 16GB (Micro 61B47 T9TBH)
HDD	TOSHIBA DT01ACA200 2TB

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Win10 (64-Bit) 3DMark11 (once) + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.14	13.68	3.05	36.6
19V	0.73	13.87	1.93	36.67

4. a. Test Environment:

The same as above but with LCD

Display Panel	AUO M170EG01 17”LCD
----------------------	----------------------------

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Win10 (64-Bit) 3DMark11 (once) + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	3.41	40.92	4.61	55.32
19V	2.13	40.47	2.91	55.29

5. Test Environment:

Motherboard	LE-37G include Heat Spreader
CPU	Intel(R) Core(TM) i5-7300U 2.60 GHz
Memory	Transcend DDR4 2133 16GB (Micro 61B47 T9TBH)
HDD	TOSHIBA DT01ACA200 2TB

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Win10 (64-Bit) 3DMark11 (once) + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.21	14.4	3.27	39.24
19V	0.81	15.39	2.15	40.85

5. a. Test Environment:

The same as above but with LCD

Display Panel	AUO M170EG01 17”LCD
----------------------	----------------------------

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Win10 (64-Bit) 3DMark11 (once) + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	3.67	44.04	5.82	69.84
19V	2.41	45.79	3.41	64.79

6. Test Environment:

Motherboard	LE-37G include Heat Spreader
CPU	Intel(R) Core(TM) i7-7600U 2.80 GHz
Memory	Transcend DDR4 2133 16GB (Micro 61B47 T9TBH)
HDD	TOSHIBA DT01ACA200 2TB

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Win10 (64-Bit) 3DMark11 (once) + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.31	15.72	3.48	41.76
19V	0.85	16.15	2.13	40.47

6. a. Test Environment:

The same as above but with LCD

Display Panel	AUO M170EG01 17”LCD
----------------------	----------------------------

12V Adapter: LI SHIN 0219B1280

19V Adapter: FSP FSP120-AAA

Voltage	MS-DOS Boot up		Win10 (64-Bit) 3DMark11 (once) + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	3.56	42.72	5.22	62.64
19V	2.45	46.55	3.34	63.46

5. Performance Test

5.1 3D MARK(2003、2005)

Windows 7 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2003 Scores	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix H5AN4GBNMFB)	PASS	15821
3DMARK2005 Scores	Western Digital WD5000LPCX-22VHAT0 500GB	PASS	11724

Windows 7 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2003 Scores	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix H5AN4GBNMFB)	PASS	16254
3DMARK2005 Scores	Western Digital WD5000LPCX-22VHAT0 500GB	NO SUPPLY	N/A

Windows 7 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2003 Scores	Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08	PASS	17278
3DMARK2005 Scores	5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	13118

Windows 7 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2003 Scores	Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08	PASS	17281
3DMARK2005 Scores	5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	12564

Windows 7 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2003 Scores	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	17194
3DMARK2005 Scores		PASS	12796

Windows 7 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2003 Scores	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	17182
3DMARK2005 Scores		NO SUPPLY	N/A

Windows 7 32-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2003 Scores	Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08	PASS	17311
3DMARK2005 Scores	5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB	PASS	12696

Windows 7 64-bit

Weighted Suite	Test Environment	Result	Remark
3DMARK2003 Scores	Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08	PASS	17141
3DMARK2005 Scores	5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB	NO SUPPLY	N/A

5.2 3D MARK2006

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix H5AN4GBNMFB) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	7633
2	SM2.0 Score		PASS	2595
3	HDR/SM3.0 Score		PASS	3274
4	CPU Score		PASS	3958

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix 5AN4GBNMFB) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	1728
2	SM2.0 Score		PASS	2499
3	HDR/SM3.0 Score		PASS	3048
4	CPU Score		PASS	3388

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	7330
2	SM2.0 Score		PASS	2563
3	HDR/SM3.0 Score		PASS	3213
4	CPU Score		PASS	3207

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	7190
2	SM2.0 Score		PASS	2635
3	HDR/SM3.0 Score		PASS	3222
4	CPU Score		PASS	2612

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	7856
2	SM2.0 Score		PASS	2710
3	HDR/SM3.0 Score		PASS	3354
4	CPU Score		PASS	3961

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	7200
2	SM2.0 Score		PASS	2525
3	HDR/SM3.0 Score		PASS	3149
4	CPU Score		PASS	3151

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i3-6100U 2.30GHz	PASS	7512
2	SM2.0 Score	Transcend DDR4 8GB (SEC 607 K4A4G08	PASS	2653
3	HDR/SM3.0 Score	5WE BCRC) Western Digital WD3200BEKT-00F3T0	PASS	3313
4	CPU Score	320GB	PASS	3159

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i7-6600U 2.60 GHz	PASS	8104
2	SM2.0 Score	acpi DDR4 2133 4GB (SKhynix	PASS	2701
3	HDR/SM3.0 Score	H5AN4GBNMFR) TOSHIBA	PASS	3479
4	CPU Score	DT01ACA200 2TB	PASS	4492

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i7-6600U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB	PASS	8336
2	SM2.0 Score		PASS	2784
3	HDR/SM3.0 Score		PASS	3591
4	CPU Score		PASS	4510

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i7-6600U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB	PASS	8359
2	SM2.0 Score		PASS	2810
3	HDR/SM3.0 Score		PASS	3594
4	CPU Score		PASS	4465

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i3-7100U 2.40 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB	PASS	7268
2	SM2.0 Score		PASS	2497
3	HDR/SM3.0 Score		PASS	3171
4	CPU Score		PASS	3407

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i3-7100U 2.40 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB	PASS	7553
2	SM2.0 Score		PASS	2600
3	HDR/SM3.0 Score		PASS	3333
4	CPU Score		PASS	3376

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i3-7100U 2.40 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB	PASS	7502
2	SM2.0 Score		PASS	2597
3	HDR/SM3.0 Score		PASS	3286
4	CPU Score		PASS	3387

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-7300U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB	PASS	7829
2	SM2.0 Score		PASS	2553
3	HDR/SM3.0 Score		PASS	3337
4	CPU Score		PASS	4887

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-7300U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB	PASS	8358
2	SM2.0 Score		PASS	2766
3	HDR/SM3.0 Score		PASS	3564
4	CPU Score		PASS	4904

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-7300U 2.60GHz Transcend DDR4 2134 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB	PASS	8583
2	SM2.0 Score		PASS	2829
3	HDR/SM3.0 Score		PASS	3701
4	CPU Score		PASS	4852

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i7-7600U 2.80GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMF) TOSHIBA DT01ACA200 2TB	PASS	8272
2	SM2.0 Score		PASS	2760
3	HDR/SM3.0 Score		PASS	3526
4	CPU Score		PASS	4715

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i7-7600U 2.80GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB	PASS	8646
2	SM2.0 Score		PASS	2900
3	HDR/SM3.0 Score		PASS	3701
4	CPU Score		PASS	4749

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i7-7600U 2.80GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB	PASS	8542
2	SM2.0 Score		PASS	2870
3	HDR/SM3.0 Score		PASS	3649
4	CPU Score		PASS	4706

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz Crucial DDR4 2133 4GB (5RA77D9RGQ) TOSHIBA DT01ACA200 2TB	PASS	6191
2	SM2.0 Score		PASS	2000
3	HDR/SM3.0 Score		PASS	2637
4	CPU Score		PASS	4035

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz Kingston DDR4 2133 8GB (SKhynix H5AN4G8NMFR) TOSHIBA DT01ACA200 2TB	PASS	7588
2	SM2.0 Score		PASS	2515
3	HDR/SM3.0 Score		PASS	3300
4	CPU Score		PASS	4042

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz Kingston DDR4 2133 16GB (Micron 6JB47D9TBH) TOSHIBA DT01ACA200 2TB	PASS	8134
2	SM2.0 Score		PASS	2776
3	HDR/SM3.0 Score		PASS	3518
4	CPU Score		PASS	4029

5.3 3D MARK VANTAGE

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix 5AN4GBNMFB) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	P4279
2	GPU SCORE		PASS	3552
3	CPU SCORE		PASS	11094

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix 5AN4GBNMFB) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	P4399
2	GPU SCORE		PASS	3809
3	CPU SCORE		PASS	8225

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	P4244
2	GPU SCORE		PASS	3621
3	CPU SCORE		PASS	8775

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	P5031
2	GPU SCORE		PASS	4246
3	CPU SCORE		PASS	11298

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	P4470
2	GPU SCORE		PASS	3720
3	CPU SCORE		PASS	11298

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	P4526
2	GPU SCORE		PASS	3938
3	CPU SCORE		PASS	8207

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB	PASS	P4667
2	GPU SCORE		PASS	4009
3	CPU SCORE		PASS	9196

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB	PASS	P4725
2	GPU SCORE		PASS	4068
3	CPU SCORE		PASS	9168

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6600U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMF) TOSHIBA DT01ACA200 2TB	PASS	P5414
2	GPU SCORE		PASS	4585
3	CPU SCORE		PASS	11825

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6600U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB	PASS	P5700
2	GPU SCORE		PASS	4849
3	CPU SCORE		PASS	12027

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-6600U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB	PASS	P5645
2	GPU SCORE		PASS	4800
3	CPU SCORE		PASS	11959

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i3-7100U 2.40 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMF) TOSHIBA DT01ACA200 2TB	PASS	P5289
2	GPU SCORE		PASS	4614
3	CPU SCORE		PASS	9424

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i3-7100U 2.40 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB	PASS	P5381
2	GPU SCORE		PASS	4715
3	CPU SCORE		PASS	9339

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i3-7100U 2.40 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB	PASS	P5319
2	GPU SCORE		PASS	4653
3	CPU SCORE		PASS	9322

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i5-7300U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMF) TOSHIBA DT01ACA200 2TB	PASS	P5713
2	GPU SCORE		PASS	4823
3	CPU SCORE		PASS	12785

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i5-7300U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB	PASS	P5823
2	GPU SCORE		PASS	4916
3	CPU SCORE		PASS	13026

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i5-7300U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB	PASS	P5883
2	GPU SCORE		PASS	4975
3	CPU SCORE		PASS	13008

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7600U 2.80 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMF) TOSHIBA DT01ACA200 2TB	PASS	P5814
2	GPU SCORE		PASS	4919
3	CPU SCORE		PASS	12797

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7600U 2.80 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB	PASS	P5972
2	GPU SCORE		PASS	5069
3	CPU SCORE		PASS	12833

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-7600U 2.80 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB	PASS	P5966
2	GPU SCORE		PASS	5064
3	CPU SCORE		PASS	12820

5.4 3D MARK (Fire Strike)

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3D Mark score	Intel(R) Core(TM) i3-6100U 2.30 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT0176ACA200 2TB	PASS	722
2	Graphics score		PASS	776
3	Physics score		PASS	3624
4	Combined score		PASS	266

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3D Mark score	Intel(R) Core(TM) i7-6600U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT0176ACA200 2TB	PASS	806
2	Graphics score		PASS	871
3	Physics score		PASS	4778
4	Combined score		PASS	288

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3D Mark score	Intel(R) Core(TM) i3-7100U 2.40 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMF) TOSHIBA DT0176ACA200 2TB	PASS	847
2	Graphics score		PASS	914
3	Physics score		PASS	3839
4	Combined score		PASS	312

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3D Mark score	Intel(R) Core(TM) i5-7300U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMF) TOSHIBA DT0176ACA200 2TB	PASS	876
2	Graphics score		PASS	945
3	Physics score		PASS	5325
4	Combined score		PASS	313

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3D Mark score	Intel(R) Core(TM) i7-7600U 2.80 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMF) TOSHIBA DT0176ACA200 2TB	PASS	893
2	Graphics score		PASS	966
3	Physics score		PASS	5287
4	Combined score		PASS	318

5.5 3D MARK (TIME SPY)

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK score	Intel(R) Core(TM) i3-6100U 2.30 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT0176ACA200 2TB	PASS	345
2	Graphics score		PASS	304
3	CPU score		PASS	1493

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK score	Intel(R) Core(TM) i3-6100U 2.30 GHz	PASS	343
2	Graphics score	Transcend DDR4 2133 16GB (Micro 61B47 T9TBH)	PASS	302
3	CPU score	TOSHIBA DT0176ACA200 2TB	PASS	1490

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK score	Intel(R) Core(TM) i7-6600U 2.60 GHz	PASS	365
2	Graphics score	Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR)	PASS	320
3	CPU score	TOSHIBA DT0176ACA200 2TB	PASS	1814

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK score	Intel(R) Core(TM) i7-6600U 2.60 GHz	PASS	350
2	Graphics score	Transcend DDR4 2133 16GB (Micro 61B47 T9TBH)	PASS	307
3	CPU score	TOSHIBA DT0176ACA200 2TB	PASS	1789

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK score	Intel(R) Core(TM) i3-7100U 2.40 GHz	PASS	361
2	Graphics score	Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR)	PASS	318
3	CPU score	TOSHIBA DT0176ACA200 2TB	PASS	1554

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK score	Intel(R) Core(TM) i3-7100U 2.40 GHz	PASS	358
2	Graphics score	Transcend DDR4 2133 16GB (Micro 61B47 T9TBH)	PASS	316
3	CPU score	TOSHIBA DT0176ACA200 2TB	PASS	1538

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK score	Intel(R) Core(TM) i5-7300U 2.60 GHz	PASS	383
2	Graphics score	Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR)	PASS	336
3	CPU score	TOSHIBA DT0176ACA200 2TB	PASS	1884

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK score	Intel(R) Core(TM) i5-7300U 2.60 GHz	PASS	379
2	Graphics score	Transcend DDR4 2133 16GB (Micro 61B47 T9TBH)	PASS	333
3	CPU score	TOSHIBA DT0176ACA200 2TB	PASS	1861

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK score	Intel(R) Core(TM) i7-7600U 2.80 GHz	PASS	375
2	Graphics score	Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR)	PASS	329
3	CPU score	TOSHIBA DT0176ACA200 2TB	PASS	1859

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK score	Intel(R) Core(TM) i7-7600U 2.80 GHz	PASS	381
2	Graphics score	Transcend DDR4 2133 16GB (Micro 61B47 T9TBH)	PASS	334
3	CPU score	TOSHIBA DT0176ACA200 2TB	PASS	1895

5.6 3D MARK11

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz	PASS	P1221
2	Graphics Score	ACPI DDR4 2133 4GB (SKhynix 5AN4GBNMFB)	PASS	1155
3	Physics Score	Western Digital WD5000LPCX-22VHAT0	PASS	3031
4	Combined Score	500GB	PASS	1038

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	P1248
2	Graphics Score		PASS	1137
3	Physics Score		PASS	2963
4	Combined Score		PASS	1099

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB	PASS	P1252
2	Graphics Score		PASS	1131
3	Physics Score		PASS	3302
4	Combined Score		PASS	1113

Windows 7 32-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB	PASS	P1289
2	Graphics Score		PASS	1165
3	Physics Score		PASS	3421
4	Combined Score		PASS	1141

Windows 7 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK Score	Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB	PASS	P1198
2	Graphics Score		PASS	1077
3	Physics Score		PASS	3129
4	Combined Score		PASS	1108

5.7 PC MARK2002

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix 5AN4GBNMFB) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	49159
3	HDD test Score	PASS	2871

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix 5AN4GBNMFB) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	47915
3	HDD test Score	PASS	2550

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	50761
3	HDD test Score	PASS	3164

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	49131
3	HDD test Score	PASS	2570

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	49618
3	HDD test Score	PASS	2774

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	49829
3	HDD test Score	PASS	2365

Test Environment
Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	40443
3	HDD test Score	PASS	3100

Test Environment
Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	40162
3	HDD test Score	PASS	2179

Test Environment
Intel(R) Core(TM) i3-6100U 2.30GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	39742
3	HDD test Score	PASS	2113

Test Environment
Intel(R) Core(TM) i3-6100U 2.30 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	37930
3	HDD test Score	PASS	2838

Test Environment
Intel(R) Core(TM) i3-6100U 2.30 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	36745
3	HDD test Score	PASS	3339

Test Environment
Intel(R) Core(TM) i3-6100U 2.30 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	36547
3	HDD test Score	PASS	3637

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	30063
3	HDD test Score	PASS	3200

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	56806
3	HDD test Score	PASS	3372

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	57286
3	HDD test Score	PASS	3454

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	36740
3	HDD test Score	PASS	3277

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	37808
3	HDD test Score	PASS	3473

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	57286
3	HDD test Score	PASS	3454

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	36740
3	HDD test Score	PASS	3277

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	37808
3	HDD test Score	PASS	3473

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	38556
3	HDD test Score	PASS	3521

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	54735
3	HDD test Score	PASS	3055

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	53915
3	HDD test Score	PASS	3494

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	56397
3	HDD test Score	PASS	3408

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	64485
3	HDD test Score	PASS	3848

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	68165
3	HDD test Score	PASS	3249

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU test Score	PASS	N/A
2	Memory test Score	PASS	65642
3	HDD test Score	PASS	3323

5.8 PC MARK2004

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix 5AN4GBNMFB) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	12839
4	Graphic test Score	PASS	10531
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix 5AN4GBNMFB) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	12174
4	Graphic test Score	PASS	11033
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	12900
4	Graphic test Score	PASS	1231
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	12708
4	Graphic test Score	PASS	11830
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	13259
4	Graphic test Score	PASS	11353
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	12944
4	Graphic test Score	PASS	11231
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	11073
4	Graphic test Score	PASS	11173
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	11103
4	Graphic test Score	PASS	14672
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-6100U 2.30GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	10497
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-6100U 2.30GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	10687
4	Graphic test Score	PASS	11866
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	10649
4	Graphic test Score	PASS	12111
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	14298
4	Graphic test Score	PASS	12949
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	14139
4	Graphic test Score	PASS	13391
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	14608
4	Graphic test Score	PASS	14280
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	10753
4	Graphic test Score	PASS	12194
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	10963
4	Graphic test Score	PASS	12992
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	10830
4	Graphic test Score	PASS	13041
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	13592
4	Graphic test Score	PASS	14021
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	14098
4	Graphic test Score	PASS	15095
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	13974
4	Graphic test Score	PASS	14969
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	15992
4	Graphic test Score	PASS	15115
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	16297
4	Graphic test Score	PASS	15907
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	PC Mark Score	PASS	N/A
2	CPU test Score	PASS	N/A
3	Memory test Score	PASS	16239
4	Graphic test Score	PASS	15979
5	HDD test Score	PASS	N/A

5.9 PC MARK2005

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix 5AN4GBNMFB) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	10733
3	Memory test Score	PASS	10179
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2133 4GB (SKhynix 5AN4GBNMFB) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	8310
3	Memory test Score	PASS	10120
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
I Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	9265
3	Memory test Score	PASS	10246
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	8366
3	Memory test Score	PASS	10195
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	10787
3	Memory test Score	PASS	10431
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-6300U 2.40GHz ACPI DDR4 2400 16GB (SEC 625 K4A8G08 5WB BCRC) Western Digital WD5000LPCX-22VHAT0 500GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	9552
3	Memory test Score	PASS	10239
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 32-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	8432
3	Memory test Score	PASS	9061
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-6100U 2.30GHz Transcend DDR4 8GB (SEC 607 K4A4G08 5WE BCRC) Western Digital WD3200BEKT-00F3T0 320GB

Windows 7 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	7200
3	Memory test Score	PASS	9209
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-6100U 2.30 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	8307
3	Memory test Score	PASS	9054
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-6100U 2.30 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	8314
3	Memory test Score	PASS	9016
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-6100U 2.30 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	8273
3	Memory test Score	PASS	8810
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	11874
3	Memory test Score	PASS	11134
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	11852
3	Memory test Score	PASS	11064
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	11792
3	Memory test Score	PASS	10993
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	8667
3	Memory test Score	PASS	9551
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	8674
3	Memory test Score	PASS	9582
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	8680
3	Memory test Score	PASS	9462
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	12632
3	Memory test Score	PASS	11641
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	12653
3	Memory test Score	PASS	11238
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	12591
3	Memory test Score	PASS	11074
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	13286
3	Memory test Score	PASS	12710
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	13188
3	Memory test Score	PASS	12849
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	System test Score	PASS	N/A
2	CPU test Score	PASS	13255
3	Memory test Score	PASS	12705
4	Graphic test Score	PASS	N/A
5	HDD test Score	PASS	N/A

5.10 PCMARK 7

Test Environment			
Intel(R)	Core(TM)	i3-6100U	2.30 GHz
acpi	DDR4	2133 4GB	(SKhynix H5AN4GBNMF)
TOSHIBA	DT01ACA200	2TB	

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3080

Test Environment			
Intel(R)	Core(TM)	i3-6100U	2.30 GHz
Kingston	DDR4	2133 8GB	(SKhynix H5AN4GBNAFR)
TOSHIBA	DT01ACA200	2TB	

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3039

Test Environment			
Intel(R)	Core(TM)	i3-6100U	2.30 GHz
Transcend	DDR4	2133 16GB	(Micro 61B47 T9TBH)
TOSHIBA	DT01ACA200	2TB	

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3102

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3458

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3485

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3485

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3158

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3163

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3134

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3556

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3524

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3510

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3593

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3791

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3723

5.11 PCMARK 8

Test Environment			
Intel(R)	Core(TM)	i3-6100U	2.30 GHz
acpi	DDR4	2133 4GB	(SKhynix H5AN4GBNMF)
TOSHIBA	DT01ACA200	2TB	

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2649

Test Environment			
Intel(R)	Core(TM)	i3-6100U	2.30 GHz
Kingston	DDR4	2133 8GB	(SKhynix H5AN4GBNAFR)
TOSHIBA	DT01ACA200	2TB	

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2509

Test Environment			
Intel(R)	Core(TM)	i3-6100U	2.30 GHz
Transcend	DDR4	2133 16GB	(Micro 61B47 T9TBH)
TOSHIBA	DT01ACA200	2TB	

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2473

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2716

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2753

Test Environment
Intel(R) Core(TM) i7-6600U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2841

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2793

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2494

Test Environment
Intel(R) Core(TM) i3-7100U 2.40 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2479

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	3027

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2809

Test Environment
Intel(R) Core(TM) i5-7300U 2.60 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2871

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz acpi DDR4 2133 4GB (SKhynix H5AN4GBNMFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2968

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz Kingston DDR4 2133 8GB (SKhynix H5AN4GBNAFR) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2951

Test Environment
Intel(R) Core(TM) i7-7600U 2.80 GHz Transcend DDR4 2133 16GB (Micro 61B47 T9TBH) TOSHIBA DT01ACA200 2TB

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	SCORE	PASS	2938

5.12 Storage Performance

5.12.1 HDD

Test environment:

OS Windows 7

Program (HD Tune)

HDD Model	Interface	Capacity	Average	Burst Rate	Access Time
Western Digital WD3200BEKT-00F3T0	SATA	320 GB	60.3 MB/sec	45 MB/sec	15.8 ms
Western Digital WD3200BEKT-00F3T0	SATA	320 GB	110.2 MB/sec	80.7 MB/sec	19.6 ms
Western Digital WD5000LPCX-22VHAT0	SATA	500 GB	82.5 MB/sec	170.5 MB/sec	17.5 ms
Western Digital WD10EALX-009BA0	SATA	1 TB	83.6 MB/sec	66.9 MB/sec	18.1 ms
Western Digital WD10EADS-00P8B0	SATA	1 TB	63.2 MB/sec	108.1 MB/sec	15.2 ms
TOSHIBA DT01ACA200	SATA	2 TB	129.4 MB/sec	233.4 MB/sec	13 ms
INTEL SSDSC2BW240A4	SSD	240 GB	169.4 MB/sec	173.9 MB/sec	75.4 ms
KINGSTON SV300S37A240G	SSD	240 GB	250.4 MB/sec	181.9 MB/sec	0.4 ms
MemoRight MRSAJ6C064GC125C00	SSD	64 GB	114.1 MB/sec	35.1 MB/sec	0.2 ms
Crucial CT120M500SSD3	mSATA	120 GB	272.7 MB/sec	187.5 MB/sec	0.1 ms
InnoDisk DEMRSR-32GD06SC2QC	mSATA	32 GB	300.3 MB/sec	218.8 MB/sec	0.1 ms
KINGSTON DT HyperX 3.0	USB 3.0	64 GB	225 MB/sec	40.6 MB/sec	1 ms
TOSHIBA TransMemory-Ex2	USB 3.0	64 GB	139.2 MB/sec	21.5 MB/sec	1.2 ms

HDD Model	Interface	Capacity	Average	Burst Rate	Access Time
SanDisk Extreme	USB 3.0	64 GB	168.5 MB/sec	35.5 MB/sec	0.7 ms
Silicon-Power	USB 2.0	4 GB	1.1 MB/sec	1.1 MB/sec	2.6 ms

5.12.2 DVD-ROM

Test environment:

OS Windows 7

Program (NERO)

DVD-ROM Model	Interface	Average Speed	Full Read	Burst Rate	DVD
ASUS DRW-1814BLT	SATA	8.05 x	546 ms	31 MB/s	16 x
PIONEER DVR-S19LBK	SATA	10.18 x	180 ms	33 MB/s	16 x
LITE-ON iHES312	SATA	10.83 x	166 ms	33 MB/s	16 x
PIONEER DVR-XD11T	USB	5.56 x	193 ms	18 MB/s	16 x
LITEON DVD eTAU108	USB	5.53 x	215 ms	23 MB/s	16 x