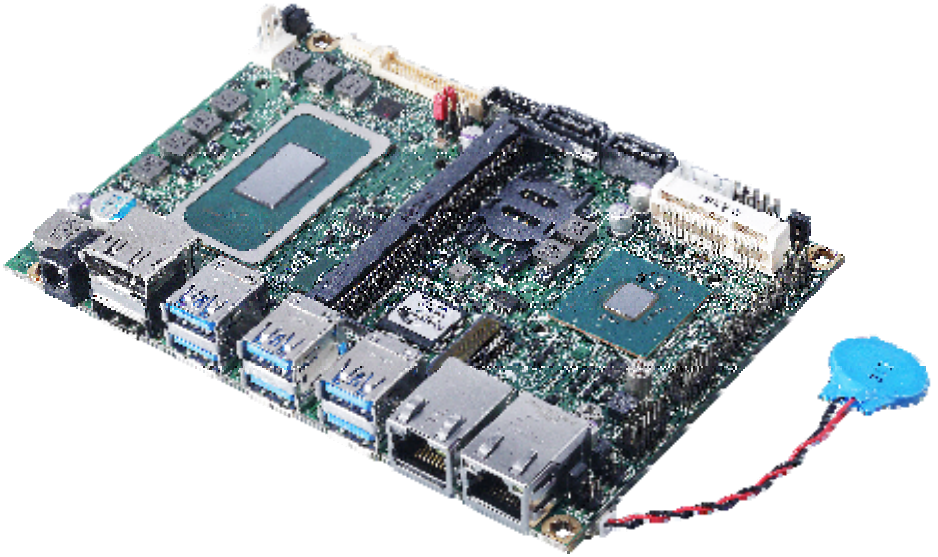


Product Test Report



Product Name	LE-37P
Product Version	A
Issued Date	2022.2.11
Report Edition	1.0
BIOS Version	1.0
Testing Engineer	Perry
Check Engineer	Daniel

REVISION HISTORY

DATE	REVISION NO.	PAGE	DESCRIPTONS
2022.2.11	Ver. 1.0	37	Initial Release

Index

1. Function test	3
1.1 Hardware functions	3
1.2 BIOS function	4
1.3 Driver.....	5
2. Compatibility test	5
2.1 CPU Test	5
2.2 Memory Test.....	6
2.3 HDMI Graphic Quality Test.....	7
2.4 Display Port Graphic Quality Test	8
2.5 Audio	9
2.6 HDD Test	9
2.7 DVD-ROM Test.....	10
2.8 USB Test	10
2.9 Serial Port Test.....	11
2.10 LAN Test.....	11
2.11 Power Supply Test.....	12
2.12 OS Install.....	12
2.13 PCI Express Mini Card.....	13
2.14 M2(Key E) Expansion slot.....	13
2.15 M2_NVME(Key M) Expansion slot.....	14
3. Environmental test	15
3.1 Temperature Test.....	15
3.2 Thermal measurements at various points on the board.....	18
4. Reliability Test	20
4.1 Power Consumption Test	20
5. Performance Test	21
5.1 3D MARK VANTAGE	21
5.2 3D MARK 11.....	23
5.3 3D MARK	25
5.4 PC MARK 7 & 8.....	27
5.5 PC MARK 10.....	29
5.6 PerformanceTest 9.0	31
5.7 Geekbench 5.....	33
5.8 Cinebench R23.....	35
5.9 Storage Performance	37

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(I219)	PASS
9	LAN2(I225)	PASS
10	DDR4_A	PASS
11	SATA3-1/2	PASS
12	USB3 - 1/2 3/4 5/6	PASS
13	CN_USB1	PASS
14	CN_COM 1/2	PASS
15	CN_COM 3/4	PASS
16	HDMI	PASS
17	Display Port	PASS
18	LVDS	PASS
19	MINI_CRAD	PASS
20	M2(Key E)	PASS
21	M2(Key M)_NVME1	PASS

22	M2(Key M)_NVME2	PASS
23	Type-E(Type-C)	PASS

Jumper

Item	Description	Result
1	JRTC	PASS
2	JAT	PASS
3	JMSATA	PASS
4	JVLCD	PASS
5	JP1/2	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	Numlock	PASS	
7	Quick Boot	PASS	
8	Active Processor Cores	PASS	
9	Hyper-Threading	PASS	
10	SATA Controller(s)	PASS	
11	HD Audio	PASS	
12	LVDS Configuration	PASS	
13	Serial Port Configuration	PASS	

Item	Description	Result	Remark
14	Restore On Power Loss	PASS	
15	Watch Dog Timer Select	PASS	
16	Power On By RTC Alarm	PASS	
17	Wake On LAN	PASS	
18	iAMT	PASS	

1.3 Driver

CD edition : IPCI2-1.1

1. Windows 10 64 bit Driver Test

Item	Description	Result	Version
1	Chipset Driver	PASS	3.1.7.142
2	VGA Driver	PASS	27.20.100.9415
3	Audio Driver	PASS	6.0.1.8036
4	LAN Driver	PASS	I219LM: 12.19.1.37 I225LM: 1.0.2.13

2. Compatibility test

2.1 CPU Test

Test environment:

OS: Windows 10 64bit

Test program : BurnIn Test8.1 & AIDA64

Spec	CPU Speed	Family	Processor	TDP	Smart Cache	Result
SRKWZ	2.6GHz	Core™	i7-11850HE	45W	24 MB	PASS
SRKX0	2.6GHz	Core™	i5-11500HE	45W	12 MB	PASS
SRKX2	2.4GHz	Core™	i3-11100HE	45W	8 MB	PASS
SRKX7	2.6GHz	Celeron®	6600HE	35W	8 MB	PASS
SRKWX	2.6GHz	Xeon®	W-11865MRE	45W	24 MB	PASS
SRKWY	2.6GHz	Xeon®	W-11555MRE	45W	12 MB	PASS
SRKX1	2.4GHz	Xeon®	W-11155MRE	45W	8 MB	PASS
SRKX4	1.5GHz	Xeon®	W-11865MLE	25W	24 MB	PASS
SRKX3	1.9GHz	Xeon®	W-11555MLE	25W	12 MB	PASS
SRKX5	1.8GHz	Xeon®	W-11155MLE	25W	8 MB	PASS

2.2 Memory Test

Test environment:

OS: Windows 10 64bit

Test program : BurnIn Test8.1 & MemTest64 & MemTest86+

Manufacturer	Chip	Frequency	Capacity Mbytes	Memory test Source
Kingston KVR32S22D8/16	SKhynix H5AN8G8NDJ RXNC	DDR4 3200	16GB	PASS
Kingston KVR32S22D8/32	Micron OTE47D9ZJV	DDR4 3200	32GB	PASS
Kingston KVR21S15D8/16	Micron 7JH45D9VHP	DDR4 2133	16 GB	PASS
Transcend 16G 2Rx8 DDR4 2133 SO	SEC 546 K4ABG085WB BCRC	DDR4 2133	16 GB	PASS
Transcend 8G 2Rx8 DDR4 2133 SO	SEC 607 K4A4G085WE BCRC	DDR4 2133	8 GB	PASS

2.3 HDMI Graphic Quality Test

Test environment:

OS Windows 10 64bit

Driver version : 27.20.100.9415

Resolution	Color	Result	Remark
800 x 600	32bit	PASS	
1024 x 768	32bit	PASS	
1152 x 864	32bit	PASS	
1280 x 600	32bit	PASS	
1280 x 720	32bit	PASS	
1280 x 768	32bit	PASS	
1280 x 800	32bit	PASS	
1280 x 960	32bit	PASS	
1280 x 1024	32bit	PASS	
1360 x 768	32bit	PASS	
1366 x 768	32bit	PASS	
1400 x 1050	32bit	PASS	
1440 x 900	32bit	PASS	
1600 x 900	32bit	PASS	
1680 x 1050	32bit	PASS	
1920 x 1080	32bit	PASS	
3840 x 2160	32bit	PASS	

2.4 Display Port Graphic Quality Test

Test environment:

OS Windows 10 64bit

Driver version : 27.20.100.9415

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

2.5 Audio

Test environment:

OS Windows 10 64-bit

Driver version : 6.0.1.8036

Item	Description	Result	Remark
1	2.1CH	PASS	
2	Microphone	PASS	

OS Ubuntu 20.04LTS

Item	Description	Result	Remark
1	2.1CH	PASS	

OS Fedora 35

Item	Description	Result	Remark
1	2.1CH	PASS	

2.6 HDD Test

Test environment:

OS Windows 10 64bit

Test program : BurnIn Test8.1 & CrystalDiskMark

HDD Model	Interface	Capacity	HDD Size Detect	HDD Data Transfer	HDD LED Check
INTEL SSDSC2BW240A4	SSD	240 GB	PASS	PASS	PASS
SPCC Solid State disk(S55)	SSD	120 GB	PASS	PASS	PASS
CT120 BX500	SSD	120 GB	PASS	PASS	PASS

WD 10EZEX	HDD	1 TB	PASS	PASS	PASS
Kingston DT Hyper X 3.0	USB	63 GB	PASS	PASS	PASS
Crucial_CT 120M500SSD	mSATA	120 GB	PASS	PASS	PASS

2.7 DVD-ROM Test

Test environment:

OS Windows 10 64bit

DVD-ROM Model	Interface	DVD-ROM Detect	DVD-ROM Data Transfer	Play DVD
Transcend DVD TS8XDVDS-K	USB	PASS	PASS	PASS
LITEON DVD eTAU108	USB	PASS	PASS	PASS
ASUS DRW-24D1ST	SATA	PASS	PASS	PASS
Pioneer DVR-S19LBK	SATA	PASS	PASS	PASS

2.8 USB Test

1. Windows 10 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. Ubuntu 20.04LTS

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. Fedora 35

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 10 64-bit

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

2.10 LAN Test

Data Transfer Test environment:

-CAT 6 UTP 100M

-8 HR. continuous

1. Windows 10 64-bit

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

2. Ubuntu 20.04LTS

Item	Description	Result	Remark
1	Device Manager Check	PASS	

3. Fedora 35

Item	Description	Result	Remark
1	Device Manager Check	PASS	

2.11 Power Supply Test

Item	Type	Description	Result	Remark
1	ATX Power	Seasonic S12II-520Bronze 520W	PASS	
2	DC PowerSupply	ABM 9306D DUAL-TRACKING	PASS	

2.12 OS Install

Item	Description	Result	Remark
1	Windows 10 64 bit	PASS	
2	Ubuntu 20.04LTS (ubuntu-20.04-desktop-amd64)	PASS	
3	Fedora 35 (Fedora-Workstation-Live-x86_64-3-1.2)	PASS	

4	Fedora 34 (Fedora-Workstation-Live-x86_64-3-1.2)	PASS	
---	---	------	--

2.13 PCI Express Mini Card

Motherboard	PCI Express mini card	Result	Remark
LE-37P	MPX-M2E+M2-210	PASS	
	MPX-M2E+M2-225	PASS	
	MPX-210D	PASS	
	MPX-210D2	PASS	
	MPX-350	PASS	
	MPX-225	PASS	
	MPX-2213	PASS	
	MPX-8188	PASS	
	MPX-4232	PASS	

2.14 M2(Key E) Expansion slot

Motherboard	M2(Key E)	Result	Remark
LE-37P	M2-210	PASS	
	M2-225	PASS	
	M2(WiFi)	PASS	Model : EWM-W163M201E
	M2-2213	PASS	

2.15 M2_NVME(Key M) Expansion slot

Motherboard	M2(Key M)	Result	Remark
LE-37P	NVMe SSD (Intel)	PASS	Model : SSDPEKKW512G7
	NVMe SSD (ADATA)	PASS	Model : ASX8000NP-128GM-C
	NVMe SSD (SEAGATE)	PASS	Model : ZP500GM30002
	NVMe SSD(ACPI)	PASS	Model : M2PDD-8L
	M2-350(4 & 2)	PASS	

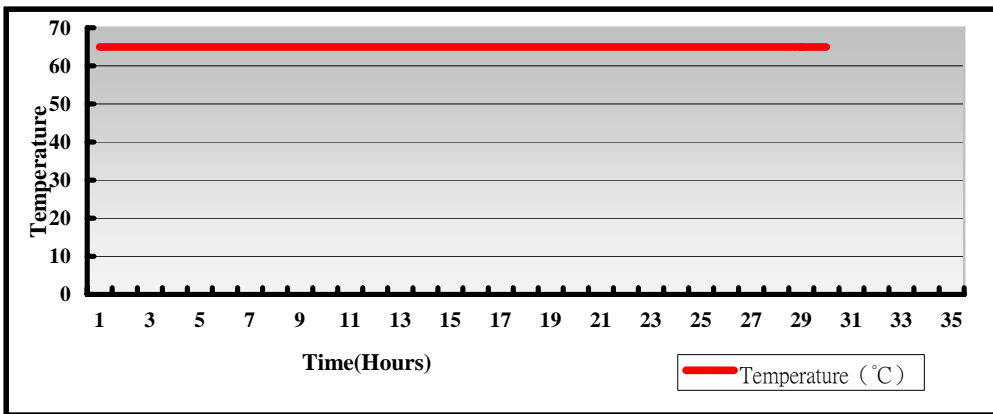
3. Environmental test

3.1 Temperature Test

Hardware Device list:

System Board	LE-37P
CPU	Intel® Core™ i7-11850HE 2.6GHz
Memory	Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV)
HDD	WD BLUE 3D NAND SSD 250GB (WDS250G2B0A-00SM50)
Operating OS	Windows 10 64bit
Test Equipment	GIANT FORCE GTH-150-60-SP-AR LCD-9530 Programmer/Controller
Test Program	BurnIn 8.1

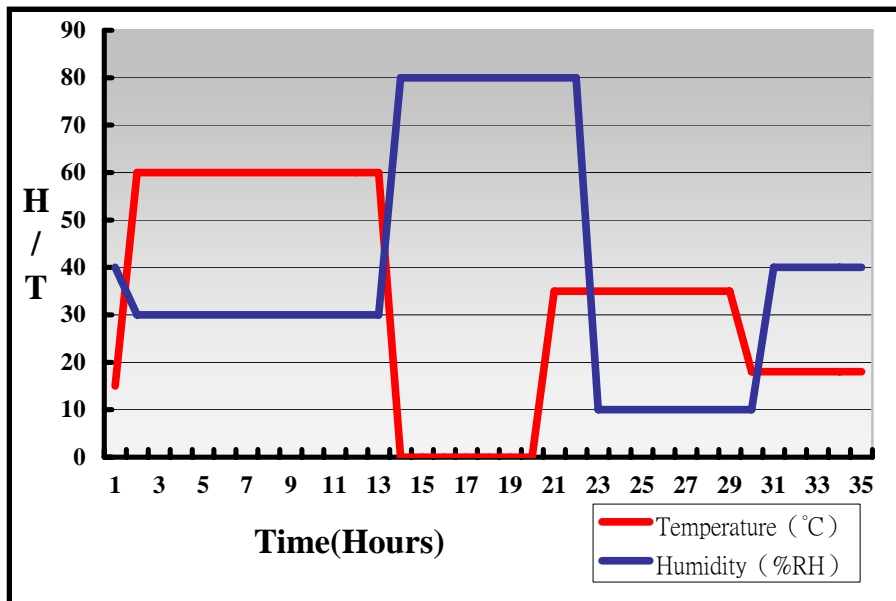
Test Result:



Hardware Device list:

System Board	LE-37P
CPU	Intel® Core™ i7-11850HE 2.6GHz
Memory	Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV)
HDD	WD BLUE 3D NAND SSD 250GB (WDS250G2B0A-00SM50)
Operating OS	Windows 10 64bit
Test Equipment	GIANT FORCE GTH-150-60-SP-AR LCD-9530 Programmer/Controller
Test Program	BurnIn 8.1

Test Result:



Boot up Test:

Hardware Device list:

System Board	LE-37P
CPU	Intel(R) Core(TM) i7-11850HE 2.6GHz
Memory	Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFY)
HDD	WD BLUE 3D NAND SSD 250GB (WDS250G2B0A-00SM50)

Temperature	Result	Remark
-40°C	PASS	50 Times
65°C	PASS	50 Times

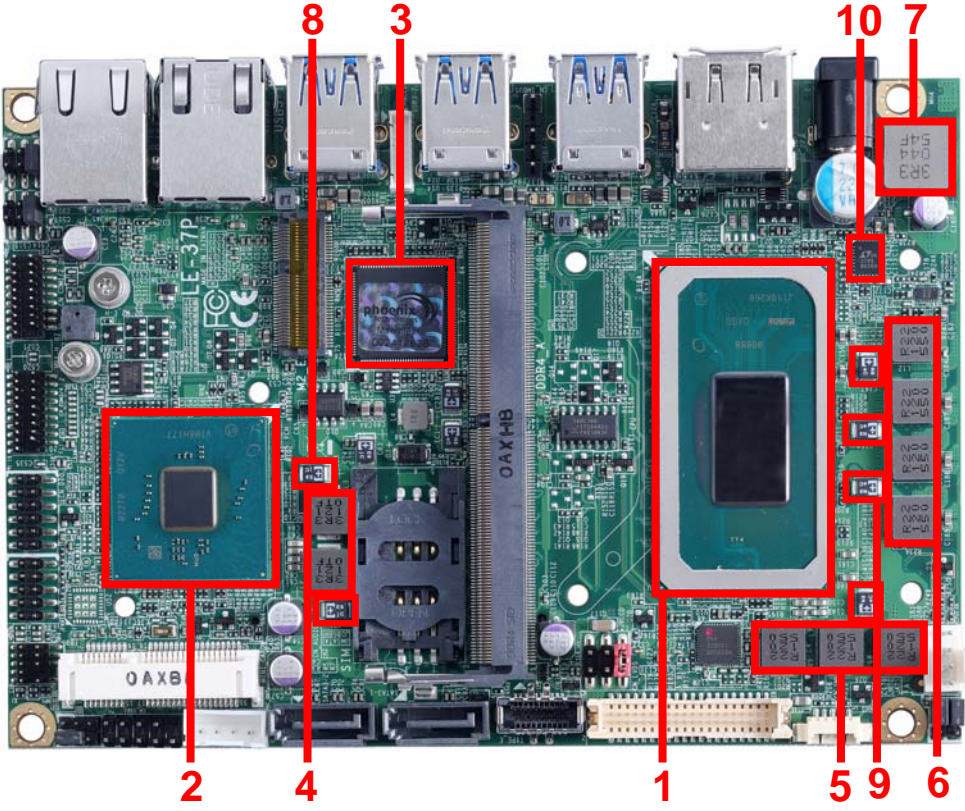
3.2 Thermal measurements at various points on the board

Test Environment:

CPU	Intel(R) Core(TM) i7-11850HE 2.6GHz
Memory	Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZfV)
HDD	WD BLUE 3D NAND SSD 250GB (WDS250G2B0A-00SM50)
Power	Seasonic S12II-520Bronze 520W (ATX Power)
Operating System	Windows 10 64-bit
Test Program	BurnIn Test 8.1

Test Result:

Item	Environmental temperature	25°C
1	CPU	59°C
2	PCH	51.8°C
3	I/O	40.3°C
4	L2 & L3	46.7°C
5	L6~L8	50.3°C
6	L9~L12	52.5°C
7	L13	36.4°C
8	C68 & C71	44°C
9	C165 & C167~C169	48.5°C
10	U12	43.6°C



4. Reliability Test

4.1 Power Consumption Test

1. Test Environment:

Motherboard	LE-37P
CPU	Intel(R) Core(TM) i7-11850HE 2.6GHz
Memory	Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV)
HDD	WD BLUE 3D NAND SSD 250GB(WDS250G2B0A-00SM50)

Power Supply: ABM 9306D DUAL-TRACKING(DC PowerSupply)

Voltage	UEFI Boot up		Windows 10 64bit 3DMARK + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
13V	3.02	39.26	9.67	125.71
19V	2.14	40.66	6.03	114.57
24V	1.77	42.48	4.98	119.52

1. a. Test Environment:

The same as above but with LCD

Display Panel	AUO M215HW03 V1 21.5”LCD
----------------------	---------------------------------

Power Supply: ABM 9306D DUAL-TRACKING(DC PowerSupply)

Voltage	UEFI Boot up		Windows 10 64bit 3DMARK + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
13V	4.06	52.78	11.7	152.1
19V	2.83	53.77	7.84	148.96
24V	2.33	55.92	5.95	142.8

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) i7-11850HE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV) WDS250G2B0A-00SM50	PASS	P3568
2	GPU SCORE		PASS	2713
3	CPU SCORE		PASS	65660

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	P3554
2	GPU SCORE		PASS	2702
3	CPU SCORE		PASS	65012

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFB) WDS250G2B0A-00SM50	PASS	P3583
2	GPU SCORE		PASS	2725
3	CPU SCORE		PASS	64612

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	P3558
2	GPU SCORE		PASS	2706
3	CPU SCORE		PASS	63876

5.2 3D MARK 11

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFB) WDS250G2B0A-00SM50	PASS	E1845
2	Graphics SCORE		PASS	1552
3	Physics SCORE		PASS	13077
4	Combined SCORE		PASS	1323

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	E1852
2	Graphics SCORE		PASS	1559
3	Physics SCORE		PASS	13032
4	Combined SCORE		PASS	1324

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV) WDS250G2B0A-00SM50	PASS	E1851
2	Graphics SCORE		PASS	1564
3	Physics SCORE		PASS	11310
4	Combined SCORE		PASS	1334

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	E1852
2	Graphics SCORE		PASS	1564
3	Physics SCORE		PASS	11757
4	Combined SCORE		PASS	1327

5.3 3D MARK

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	Time Spy	Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFY) WDS250G2B0A-00SM50	PASS	217
2	Graphics SCORE		PASS	186
3	CPU SCORE		PASS	5654

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	Time Spy	Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	217
2	Graphics SCORE		PASS	186
3	CPU SCORE		PASS	5662

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	Time Spy	Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFB) WDS250G2B0A-00SM50	PASS	219
2	Graphics SCORE		PASS	188
3	CPU SCORE		PASS	5642

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	Time Spy	Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	218
2	Graphics SCORE		PASS	187
3	CPU SCORE		PASS	5595

5.4 PC MARK 7 & 8

Windows 10 64-bit

Weighted Suite	Test Environment	Result	Remark
PCMARK 7 Scores	Intel(R) Core(TM) i7-11850HE 2.6GHz	PASS	7116
PCMARK 8 Scores	Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV) WDS250G2B0A-00SM50	PASS	Work 2.0 : 3119

Windows 10 64-bit

Weighted Suite	Test Environment	Result	Remark
PCMARK 7 Scores	Intel(R) Core(TM) i7-11850HE 2.6GHz	PASS	7121
PCMARK 8 Scores	Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	Work 2.0 : 3120

Windows 10 64-bit

Weighted Suite	Test Environment	Result	Remark
PCMARK 7 Scores	Intel(R) Xeon® W-11865MRE 2.6GHz	PASS	7128
PCMARK 8 Scores	Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV) WDS250G2B0A-00SM50	PASS	Work 2.0 : 3125

Windows 10 64-bit

Weighted Suite	Test Environment	Result	Remark
PCMARK 7 Scores	Intel(R) Xeon® W-11865MRE 2.6GHz	PASS	7132
PCMARK 8 Scores	Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	Work 2.0 : 3108

5.5 PC MARK 10

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PCMARK10 Scores	Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFB) WDS250G2B0A-00SM50	PASS	3901
2	Essentials		PASS	9219
3	Productivity		PASS	6290
4	Digital Content Creation		PASS	2780

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PCMARK10 Scores	Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	3880
2	Essentials		PASS	9147
3	Productivity		PASS	6208
4	Digital Content Creation		PASS	2792

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PCMARK10 Scores	Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV) WDS250G2B0A-00SM50	PASS	3882
2	Essentials		PASS	9110
3	Productivity		PASS	6236
4	Digital Content Creation		PASS	2795

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PCMARK10 Scores	Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	3841
2	Essentials		PASS	9148
3	Productivity		PASS	5967
4	Digital Content Creation		PASS	2819

5.6 PerformanceTest 9.0

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PassMark Rating	Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZVF) WDS250G2B0A-00SM50	PASS	3222.4
2	CPU Mark		PASS	18928.3
3	2D Graphics Mark		PASS	921.4
4	3D Graphics Mark		PASS	560.7
5	Memory Mark		PASS	2697.0
6	Disk Mark		PASS	3754.0

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PassMark Rating	Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	3210.7
2	CPU Mark		PASS	19022.6
3	2D Graphics Mark		PASS	926.7
4	3D Graphics Mark		PASS	562.1
5	Memory Mark		PASS	2586.4
6	Disk Mark		PASS	3730.9

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PassMark Rating	Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV) WDS250G2B0A-00SM50	PASS	3170.3
2	CPU Mark		PASS	16386.7
3	2D Graphics Mark		PASS	928.3
4	3D Graphics Mark		PASS	565.7
5	Memory Mark		PASS	2687.0
6	Disk Mark		PASS	3473.7

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PassMark Rating	Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	3182.6
2	CPU Mark		PASS	17080.4
3	2D Graphics Mark		PASS	919.6
4	3D Graphics Mark		PASS	564.0
5	Memory Mark		PASS	2588.8
6	Disk Mark		PASS	3762.7

5.7 Geekbench 5

Test Environment
Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite		Result	Remark
1	Run CPU Benchmark Score	Single-core	PASS	1433
		Multi-core		7704
2	Run Compute Benchmark (OpenCL Score)		PASS	2212

Test Environment
Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite		Result	Remark
1	Run CPU Benchmark Score	Single-core	PASS	1440
		Multi-core		7624
2	Run Compute Benchmark (OpenCL Score)		PASS	2229

Test Environment
Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite		Result	Remark
1	Run CPU Benchmark Score	Single-core	PASS	1429
		Multi-core		7656
2	Run Compute Benchmark (OpenCL Score)		PASS	2220

Test Environment
Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite		Result	Remark
1	Run CPU Benchmark Score	Single-core	PASS	1430
		Multi-core		7659
2	Run Compute Benchmark (OpenCL Score)		PASS	2219

5.8 Cinebench R23

Test Environment
Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU(Multi Core)	PASS	9088 pts
2	CPU(Single Core)	PASS	1389 pts
3	MP Ratio	PASS	6.54 x

Test Environment
Intel(R) Core(TM) i7-11850HE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU(Multi Core)	PASS	9139 pts
2	CPU(Single Core)	PASS	1392 pts
3	MP Ratio	PASS	6.56 x

Test Environment
Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/32 32GB (Micron OTE47D9ZFV) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU(Multi Core)	PASS	9091 pts
2	CPU(Single Core)	PASS	1386 pts
3	MP Ratio	PASS	6.56 x

Test Environment
Intel(R) Xeon® W-11865MRE 2.6GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	CPU(Multi Core)	PASS	9105 pts
2	CPU(Single Core)	PASS	1389 pts
3	MP Ratio	PASS	6.56 x

5.9 Storage Performance

5.9.1 HDD

Test environment:

OS Windows 10 64bit

Program: HD Tune

HDD Model	Interface	Capacity	Average	Burst Rate	Access Time
WDS250G2B0A	SSD	250 GB	415.8 MB/sec	121.1 MB/sec	0.068 ms
Kingston SV300S37A	SSD	240 GB	241.2 MB/sec	138.6 MB/sec	0.155 ms
Kingston DT100G3/64G	USB	64 GB	94.1 MB/sec	78.5 MB/sec	0.331 ms
ADATA UV128/16GB	USB	16 GB	115.5 MB/sec	62.4 MB/sec	0.936 ms

5.9.2 DVD-ROM

Test environment:

OS Windows 10 64bit

Program (NERO)

DVD-ROM Model	Interface	Average Speed	Full Read	Burst Rate	DVD
Transcend DVD TS8XDVDS-K	USB	5.76 x	294 ms	19 MB/s	1 - 16 x
LITEON DVD eTAU108	USB	5.76 x	195 ms	26 MB/s	1 - 16 x