

Product Test Report



Product Name	LP-179
Product Version	A
Issued Date	2021.03.19
Report Edition	1.0
BIOS Version	1.0
Testing Engineer	Perry
Check Engineer	Daniel

REVISION HISTORY			
DATE	REVISION NO.	PAGE	DESCRIPTONS
2021.3.19	Ver. 1.0	33	Initial Release

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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	LAN1(I219)	PASS
8	LAN2(I225)	PASS
9	DDR4	PASS
10	USB3 - 1/2	PASS
11	CN_USB2	PASS
12	CN_COM 1/2	PASS
13	SATA	PASS
14	HDMI	PASS
15	Display Port	PASS
16	CN_LVDS	PASS
17	M2_NVME (KEY M)	PASS
18	M2 (KEY E)	PASS
19	CN_AUDIO	PASS

Jumper

Item	Description	Result
1	JRTC	PASS
2	JAT	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	
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	3.1.7.131
2	VGA Driver	PASS	27.20.100.8935
3	Audio Driver	PASS	6.0.1.8036
4	LAN Driver	PASS	I219LM: 12.19.0.16 I225LM: 1.0.2.6

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
SRK0X	2.8GHz	CORE	i7-1185G7E	28W	12 MB	PASS
SRK0Z	2.6GHz	CORE	i5-1145G7E	28W	8 MB	PASS
SRK12	3.0GHz	CORE	i3-1115G4E	28W	6 MB	PASS
SRK17	1.8GHz	Celeron®	6305E	15W	4 MB	PASS
SRK0Y	2.8GHz	CORE	i7-1185GRE	28W	12 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
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				Source
Kingston KVR32S22SD8/8	SKhynix H5AN8G8NDJ RXNC	DDR4 3200	8 GB	PASS
Kingston KVR32S22D8/16	SKhynix H5AN8G8NDJ RXNC	DDR4 3200	16GB	PASS
Kingston KVR32S22D8/32	Micron OTE47D9ZVF	DDR4 3200	32GB	PASS
Innodisk M4S0-BGS2OCEM	SEC 016 K4AAG085WA BCWE	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 : 27.20.100.8935

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 : 27.20.100.8935

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 20.10

Item	Description	Result	Remark
1	2.1CH	PASS	

OS Fedoro 33 Workstation

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
WDS250G2B0A-00S M50	SSD	250 GB	PASS	PASS	PASS
Kingston DT100G3/32G	USB	32 GB	PASS	PASS	PASS
Kingston DT Hyper X 3.0	USB	63 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

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 20.10

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 33 Workstation

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	

2.10 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	(IPERF3)
2	Data Transfer Test	PASS	(IPERF3)

2. Ubuntu 20.10

Item	Description	Result	Remark
1	Device Manager Check	PASS	

3. Fedoro 33 Workstation

Item	Description	Result	Remark
1	Device Manager Check	PASS	

2.11 Power Supply Test

Item	Type	Description	Result	Remark
1	ATX Power	Thermaltake TR2-450AH2NCB	PASS	
2	ATX Power	SEED BS400	PASS	

3	ATX Power	Seasonic SS-520GB 520W	PASS	
4	ATX Power	AcBel PC7008 430W	PASS	
5	AC ADAPTER	EA11001C-120	PASS	

2.12 OS Install

Item	Description	Result	Remark
1	Windows 10 64 bit	PASS	
2	Ubuntu 20.10 (ubuntu-20.10-desktop-amd64)	PASS	
3.	Fedora 33 (Fedora-Workstation-Live-x86_64-3-1.2)	PASS	

2.13 M2(Key E) Expansion slot

Motherboard	M2(Key E)	Result	Remark
LP-179	M2-210	PASS	
LP-179	M2-225	PASS	2.5G Gigabit Ethernet
LP-179	M2-WiFi	PASS	Model : 1. RTL8821CE 2. EWM-W163M201E
LP-179	M2-2213	PASS	1394 Module

2.14 M2_NVME(Key M) Expansion slot

Motherboard	M2(Key M)	Result	Remark
LP-179	NVMe SSD (Intel)	PASS	Model : SSDPEKKW512G7
LP-179	NVMe SSD (ADATA)	PASS	Model : ASX8000NP-128GM-C
LP-179	NVMe SSD (SEAGATE)	PASS	Model : ZP500GM30002
LP-179	NVMe SSD(ACPI)	PASS	Model : M2PDD-8L

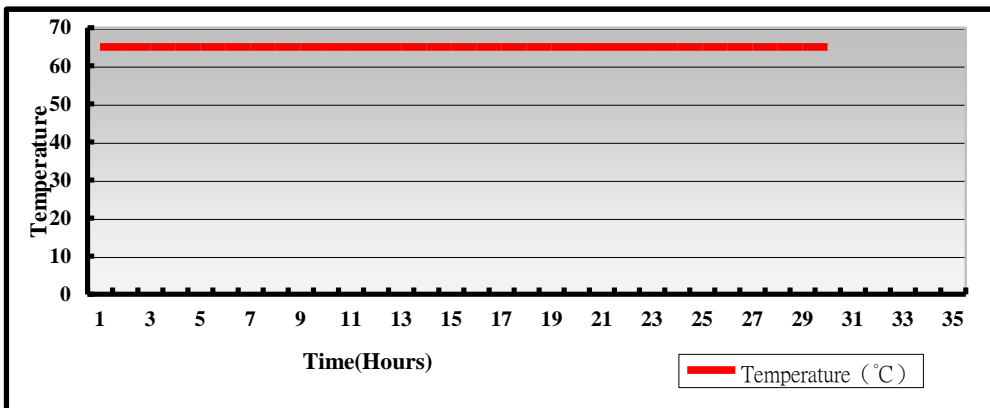
3. Environmental test

3.1 Temperature Test

Hardware Device List:

System Board	LP-179
CPU	Intel® Core™ i7-1185G7E 2.8GHz
Memory	Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC)
HDD	WD BLUE 3D NAND SSD 250GB (WDS250G2B0A-00SM50)
Operating OS	Windows 10 64bit
Test Equipment	THERMOTRON 2800 Programmer/Controller
Test Program	BurnIn 8.1

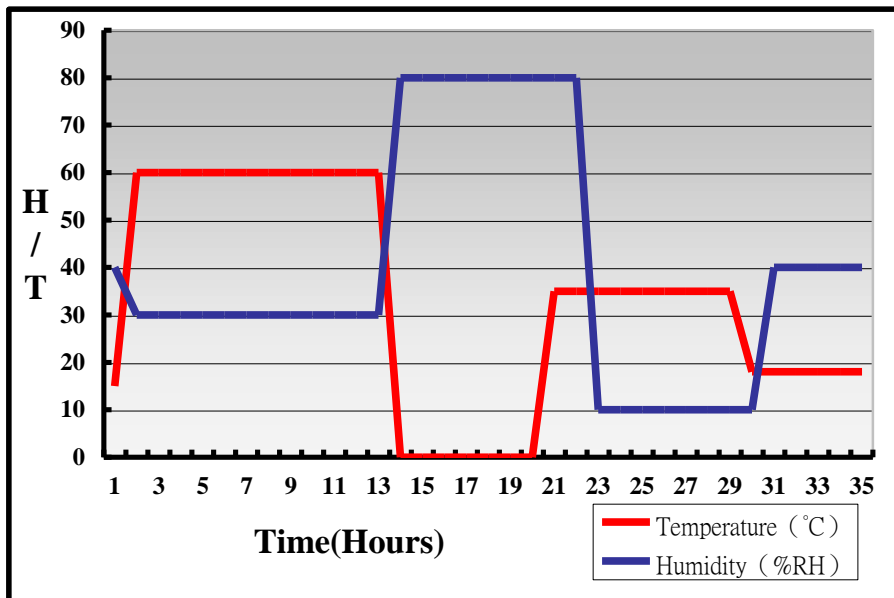
Test Result:



Hardware Device list:

System Board	LP-179
CPU	Intel® Core™ i7-1185G7E 2.8GHz
Memory	Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC)
HDD	WD BLUE 3D NAND SSD 250GB (WDS250G2B0A-00SM50)
Operating OS	Windows 10 64bit
Test Equipment	THERMOTRON 2800 Programmer/Controller
Test Program	BurnIn 8.1

Test Result:



Boot up Test:

Hardware Device list:

System Board	LP-179
CPU	Intel(R) Core(TM) i7-1185G7E 2.8GHz
Memory	Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC)
HDD	WD BLUE 3D NAND SSD 250GB (WDS250G2B0A-00SM50)

Temperature	Result	Remark
-20°C	PASS	50 Times
75°C	PASS	50 Times

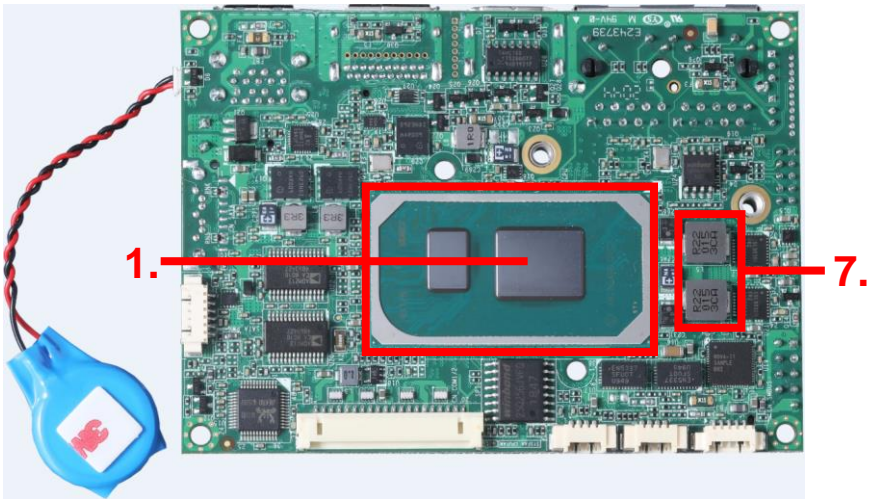
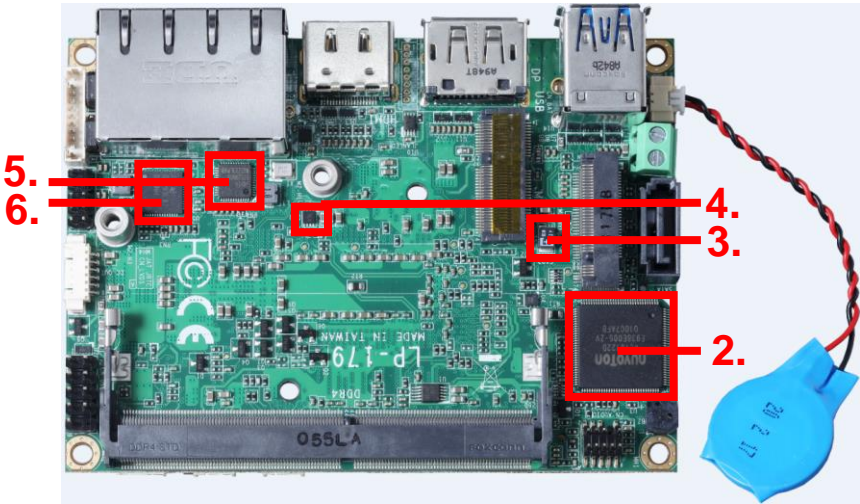
3.2 Thermal measurements at various points on the board

Test Environment:

CPU	Intel(R) Core(TM) i7-1185G7E 2.8GHz
Memory	Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC)
HDD	WD BLUE 3D NAND SSD 250GB (WDS250G2B0A-00SM50)
Power	GW INSTEK SPS-3610(DC Power Supply)
Operating System	Windows 10 64-bit
Test Program	AIDA64

Test Result:

Item	Environmental temperature	25°C
1	CPU(Bottom)	62°C
2	U3	43.5°C
3	C102	42.7°C
4	Q10	46°C
5	U5	45°C
6	U6	48.8°C
7	L4 & L5	43.9°C



4. Reliability Test

4.1 Power Consumption Test

1. Test Environment:

Motherboard	LP-179
CPU	Intel(R) Core(TM) i7-1185G7E 2.8GHz
Memory	Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC)
HDD	WD BLUE 3D NAND SSD 250GB(WDS250G2B0A-00SM50)

Power Supply: GW INSTEK SPS-3610(DC Power Supply)

Voltage	MS-DOS Boot up		Windows 10 64bit 3DMARK + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.72	20.64	2.78	33.36

2. Test Environment:

Motherboard	LP-179
CPU	Intel(R) Celeron(R) 6305E 1.8GHz
Memory	Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC)
HDD	WD BLUE 3D NAND SSD 250GB(WDS250G2B0A-00SM50)

Power Supply: GW INSTEK SPS-3610(DC Power Supply)

Voltage	MS-DOS Boot up		Windows 10 64bit 3DMARK + Prime95	
	Current (A)	Power (W)	Current (A)	Power (W)
12V	1.4	16.8	1.72	20.64

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) i7-1185G7E 2.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	P6580
2	GPU SCORE		PASS	5282
3	CPU SCORE		PASS	25035

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-1185G7E 2.8GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	P6708
2	GPU SCORE		PASS	5391
3	CPU SCORE		PASS	25085

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	P4300
2	GPU SCORE		PASS	3905
3	CPU SCORE		PASS	6173

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	P4515
2	GPU SCORE		PASS	4132
3	CPU SCORE		PASS	6255

5.2 3D MARK 11

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-1185G7E 2.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	P2491
2	Graphics SCORE		PASS	2225
3	Physics SCORE		PASS	9318
4	Combined SCORE		PASS	2073

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Core(TM) i7-1185G7E 2.8GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	P2534
2	Graphics SCORE		PASS	2252
3	Physics SCORE		PASS	9388
4	Combined SCORE		PASS	2196

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	P1366
2	Graphics SCORE		PASS	1251
3	Physics SCORE		PASS	2579
4	Combined SCORE		PASS	1351

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	3DMARK SCORE	Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	P1443
2	Graphics SCORE		PASS	1320
3	Physics SCORE		PASS	2632
4	Combined SCORE		PASS	1483

5.3 3D MARK

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	Time Spy	Intel(R) Core(TM) i7-1185G7E 2.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	599
2	Graphics SCORE		PASS	522
3	CPU SCORE		PASS	3730

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	Time Spy	Intel(R) Core(TM) i7-1185G7E 2.8GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	611
2	Graphics SCORE		PASS	533
3	CPU SCORE		PASS	3749

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	Time Spy	Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	345
2	Graphics SCORE		PASS	308
3	CPU SCORE		PASS	1099

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	Time Spy	Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	353
2	Graphics SCORE		PASS	316
3	CPU SCORE		PASS	1106

5.4 PC MARK 7 & 8

Windows 10 64-bit

Weighted Suite	Test Environment	Result	Remark
PCMARK 7 Scores	Intel(R) Core(TM) i7-1185G7E 2.8GHz	PASS	6589
PCMARK 8 Scores	Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	Work 2.0 : 3637 Work 1.0 : 5095

Windows 10 64-bit

Weighted Suite	Test Environment	Result	Remark
PCMARK 7 Scores	Intel(R) Core(TM) i7-1185G7E 2.8GHz	PASS	6680
PCMARK 8 Scores	Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	Work 2.0 : 3847 Work 1.0 : 5119

Windows 10 64-bit

Weighted Suite	Test Environment	Result	Remark
PCMARK 7 Scores	Intel(R) Celeron(R) 6305E 1.8GHz	PASS	4987
PCMARK 8 Scores	Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	Work 2.0 : 2389 Work 1.0 : 4021

Windows 10 64-bit

Weighted Suite	Test Environment	Result	Remark
PCMARK 7 Scores	Intel(R) Celeron(R) 6305E 1.8GHz	PASS	5237
PCMARK 8 Scores	Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	Work 2.0 : 2506 Work 1.0 : 4035

5.5 PerformanceTest 9.0

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PassMark Rating	Intel(R) Core(TM) i7-1185G7E 2.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	3838.6
2	CPU Mark		PASS	10644.9
3	2D Graphics Mark		PASS	939
4	3D Graphics Mark		PASS	1125.3
5	Memory Mark		PASS	2275.4
6	Disk Mark		PASS	4661.1

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PassMark Rating	Intel(R) Core(TM) i7-1185G7E 2.8GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	4070.8
2	CPU Mark		PASS	11153.8
3	2D Graphics Mark		PASS	970.3
4	3D Graphics Mark		PASS	1175.5
5	Memory Mark		PASS	2649.1
6	Disk Mark		PASS	4748.7

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PassMark Rating	Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	1961.3
2	CPU Mark		PASS	2772.6
3	2D Graphics Mark		PASS	480
4	3D Graphics Mark		PASS	816.9
5	Memory Mark		PASS	1521
6	Disk Mark		PASS	4779.1

Windows 10 64-bit

Item	Weighted Suite	Test Environment	Result	Remark
1	PassMark Rating	Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50	PASS	1980.2
2	CPU Mark		PASS	2774.1
3	2D Graphics Mark		PASS	478.9
4	3D Graphics Mark		PASS	826.4
5	Memory Mark		PASS	1609.6
6	Disk Mark		PASS	4747.5

5.6 Geekbench 4

Test Environment
Intel(R) Core(TM) i7-1185G7E 2.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite		Result	Remark
1	Run CPU Benchmark Score	Single-core	PASS	5883
		Multi-core		17410
2	Run Compute Benchmark (OpenCL Score)		PASS	19420

Test Environment
Intel(R) Core(TM) i7-1185G7E 2.8GHz 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	5985
		Multi-core		18011
2	Run Compute Benchmark (OpenCL Score)		PASS	20260

Test Environment
Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite		Result	Remark
1	Run CPU Benchmark Score	Single-core	PASS	2830
		Multi-core		4850
2	Run Compute Benchmark (OpenCL Score)		PASS	13447

Test Environment
Intel(R) Celeron(R) 6305E 1.8GHz 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	2866
		Multi-core		4954
2	Run Compute Benchmark (OpenCL Score)		PASS	13663

5.7 Cinebench R15

Test Environment
Intel(R) Core(TM) i7-1185G7E 2.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	41.01 fps
2	CPU	PASS	804 cb

Test Environment
Intel(R) Core(TM) i7-1185G7E 2.8GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	41.39 fps
2	CPU	PASS	817 cb

Test Environment
Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22SD8/8 8GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	28.46 fps
2	CPU	PASS	166 cb

Test Environment
Intel(R) Celeron(R) 6305E 1.8GHz Kingston KVR32S22D8/16 16GB (SKhynix H5AN8G8NDJ RXNC) WDS250G2B0A-00SM50

Windows 10 64-bit

Item	Weighted Suite	Result	Remark
1	OpenGL	PASS	28.57 fps
2	CPU	PASS	166 cb

5.8 Storage Performance

5.8.1 HDD

Test environment:

OS Windows 10 64bit

Program: HD Tune

HDD Model	Interface	Capacity	Average	Burst Rate	Access Time
WDS250G2B0A	SSD	250 GB	427.6 MB/sec	161.1 MB/sec	0.072 ms
Kingston DT100G3/32G	USB	32 GB	95.4 MB/sec	79.4 MB/sec	0.344 ms
ADATA UV128/16GB	USB	16 GB	118.3 MB/sec	59.9 MB/sec	0.932 ms

5.8.2 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	4.25 x	166 ms	17 MB/s	1 - 16 x
LITEON DVD eTAU108	USB	4.25 x	116 ms	25 MB/s	1 - 16 x