

# 1. Stability Test: Rev.021

## 1.1 CPU Function Test:

<b>Test Purpose</b>	Test CPU functions work normally under Windows Operating System
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. Install Windows Operating System</li> <li>2. Install M/B Device Driver</li> <li>3. CPU-Z check CPU info</li> <li>4. Run AIDA64 Cache and Memory Benchmark Ver.5.50.3600/5.60.3700 1 time</li> <li>5. Run Passmark Performance Test 8.0 Build1052/1053 1 time</li> <li>6. Run 3DMark for Windows Ver.1.5.915 BenchMark 3 times</li> <li>7. S3/Hibernate Test 3 times</li> </ol>
<b>Test Criteria</b>	It should be no problem for all tests

No.	CPU	Type	CPU Temp.	Result
1	Intel / 2.20GHz	Skylake-S (QHQG) / 65W / LGA1151	21 °C	Pass (was:ID2927)
2	Intel / 2.20GHz	Skylake-S (QHVZ) / 35W / LGA1151	21 °C	Pass (was:ID2927)
3	Intel / 2.10GHz	Skylake-S (QHW0) / 35W / LGA1151	22 °C	Pass (was:ID2927)
4	Intel / 2.40GHz	Skylake-S (QHVX) / 35W / LGA1151	20 °C	Pass (was:ID2927)
5	Intel / 3.40GHz	Core i7-6700 (Skylake-S/R0-SR2BT) / 65W / LGA1151	34 °C	Pass
6	Intel / 3.20GHz	Core i5-6500 (Skylake-S/QJEF) / 65W / LGA1151	34 °C	Pass
7	Intel / 3.70GHz	Core i3-6100 (Skylake-S/S0-SR2HG) / 51W / LGA1151	45 °C	Pass
8	Intel / 3.30GHz	Pentium-G4400 (Skylake-S/R0-SR2DC) / 54W / LGA1151	30 °C	Pass
9	Intel / 3.60GHz	Xeon E3-1275 V5 (Skylake-S/QJ6Z) / 80W / LGA1151	41 °C	Pass
10	Intel / 3.30GHz	Xeon E3-1225 V5 (Skylake-S/QJ7D) / 80W / LGA1151	32 °C	Pass
11	Intel / 2.40GHz	Xeon E3-1268L V5 (Skylake-S/QJH1) / 35W / LGA1151	26 °C	Pass (was:ID2927)

## 1.2 Memory Function Test:

<b>Test Purpose</b>	Test Memory functions work normally under Windows Operating System
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. Install Windows Operating System</li> <li>2. Install M/B Device Driver</li> <li>3. Run AIDA64 Cache and Memory Benchmark Ver.5.50.3600/5.60.3700 1 time</li> <li>4. Run Passmark Performance Test 8.0 Build1052/1053 1 time</li> <li>5. Run 3DMark for Windows Ver.1.5.915 BenchMark 3 times</li> <li>6. S3/Hibernate Test 3 times</li> </ol>
<b>Test Criteria</b>	It should be no problem for the test

### 1.2.1 DDR4:

No.	Function	Result
1	DDR4 DIMM Slot Examine	Pass
2	Single Channel mode	Pass
3	Dual channel mode	Pass
4	DIMM Slot1	Pass
5	DIMM Slot2	Pass
6	DIMM Slot3	Pass
7	DIMM Slot4	Pass

### 1.2.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
1	MemTest86 Ver.6.0.0	1. Burn-In test 24 hours.	M/B: SD631-Q170CRM Rev.2 (021) (BSF450400019) M/B BIOS: Insyde 11/10/2015 M/B Driver: Demo ver.0.2.1511.1 CPU: Intel / Core i7-6700 (Skylake-S/R0-SR2BT) / 3.4GHz DDR4: Innodisk (M4UR-AGS1KCOG-B 1.2V) [1Gx8b-x16/2048Mx64b 1066MHz,CL=15] / SEC (K4A8G085WB-BCPB) / PC4-17000 (DDR4-2133) / 16GB *4 SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / It iHAS324-07 SATA Power: Enermax / ELT400AWT 400W O.S.: DOS	Pass

		<p>1. Burn-In test 12 hours.</p>	<p>M/B: SD631-C236CRM Rev.2 (021) (BSF450500006)</p> <p>M/B BIOS: Insyde 11/10/2015</p> <p>M/B Driver: Demo ver.0.2.1511.1</p> <p>CPU: Intel / Xeon E3-1225 V5 (Skylake-S/QJ7D) / 3.3GHz</p> <p>Transcend (TS512MLH72V1H 1.2V)</p> <p>DDR4: [512Mx8-x9/512Mx72</p> <p>1066MHz,CL=15,tRCD=15,tRP=15] /</p> <p>SEC (K4A4G085WD-BCPB) /</p> <p>PC4-17000 (DDR4-2133)/ECC / 16GB *4</p> <p>SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5"</p> <p>Display: On Board</p> <p>DVD-ROM: Pioneer / DVD-230DW 18X SATA</p> <p>Power: Sea Sonic / SS-400ET 400W</p> <p>O.S.: DOS</p>	<p><b>Pass</b></p>
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### 1.2.3 DDR4 Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	Apacer	SEC	8GB	PC4-19200 (DDR4-2400)	K4A4G085WD-BCRC	78.C1GMS.4010B 1.2V [512Mx8b-x16/1024Mx64b 1200MHz,CL=17,tRCD=17,tRP=17]	Pass
2	Apacer	SEC	4GB	PC4-19200 (DDR4-2400)	K4A4G085WD-BCRC	78.B1GMS.4050B 1.2V [512Mx8b-x8/512Mx64b 1200MHz,CL=17,tRCD=17,tRP=17]	Pass
3	Innodisk	SEC	16GB	PC4-17000 (DDR4-2133)	K4A8G085WB-BCPB	M4UR-AGS1KC0G-B 1.2V [1Gx8b-x16/2048Mx64b 1066MHz,CL=15,tRCD=15,tRP=15]	Pass
4	ADATA	SKhynix	8GB	PC4-17000 (DDR4-2133)	H5AN4G8NMFR-TFC	AD4U2133W8G15-BHYM 1.2V [512Mx8b-x16/1024Mx64b 1066MHz,CL=15,tRCD=15,tRP=15]	Pass
5	Transcend	SEC	8GB	PC4-17000 (DDR4-2133)	K4A4G085WD-BCPB	TS1GLH64V1H 1.2V [512Mx8b 1066MHz,CL=15 tRCD=15,tRP=15]	Pass
6	ADATA	SKhynix	8GB	PC4-17000 (DDR4-2133)	H5AN4G8NAFR-TFC	AD4U2133W8G15-BHYA 1.2V [512Mx8/1024Mx8,CL=15 tRCD=15,tRP=15]	Pass
7	Innodisk	SEC	4GB	PC4-17000 (DDR4-2133)	K4A4G085WD-BCPB	M4UR-4GSSJC0G-D 1.2V [512Mx8b-x8/512Mx64b 1066MHz,CL=15,tRCD=15,tRP=15]	Pass
8	Transcend	SEC	4GB	PC4-17000 (DDR4-2133)	K4A4G085WD-BCPB	TS512MLH64V1H 1.2V [512Mx8b 1066MHz,CL=15 tRCD=15,tRP=15]	Pass
9	Innodisk	SEC	16GB	PC4-17000 (DDR4-2133)/ECC	K4A8G085WB-BCPB	M4CR-AGS1MC0G-B 1.2V [1Gx8-x18/2048Mx72 1066MHz,CL=15,tRCD=15,tRP=15]	Pass
10	Transcend	SEC	16GB	PC4-17000 (DDR4-2133)/ECC	K4A8G0B	TS2GLH64V1B 1.2V [1024Mx8,CL=15,tRCD=15,tRP=15]	Pass
11	Transcend	SEC	16GB	PC4-17000 (DDR4-2133)/ECC	K4A8G085WB-BCPB	TS2GLH72V1B 1.2V [512Mx8/1024Mx8 1066MHz,CL=15,tRCD=15,tRP=15]	Pass
12	Transcend	SEC	8GB	PC4-17000 (DDR4-2133)/ECC	K4A4G085WB-BCPB	TS1GLH72V1H 1.2V [512Mx8/1024Mx8 1066MHz@CL=15,tRCD=15,tRP=15]	Pass
13	ADATA	SKhynix	8GB	PC4-17000 (DDR4-2133)/ECC	H5AN4G8NAFR TFC	AD4E2133W8G15-BHYA 1.2V [512Mx8/1024 x8 2133MHz@CL=15,tRCD=15,tRP=15]	Pass



<b>14</b>	Transcend	SEC	4GB	PC4-17000 (DDR4-2133)/ECC	K4A4G085WB-BCPB	TS512MLH72V1H 1.2V [512Mx8/1024Mx8 1066MHz@CL=15,tRCD=15,tRP=15]	<b>Pass</b>
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### 1.2.4 DDR4 Module Test Procedures:

No.	DDR4 Module	Test Environment	Result
1	Apacer (78.C1GMS.4010B 1.2V) [512Mx8b-x16/1024Mx64b 1200MHz,CL=17] / SEC (K4A4G085WD-BCRC) / PC4-19200 (DDR4-2400) / 8GB *1	M/B: SD631-Q170CRM Rev.2 (021) (BSF450400019) M/B BIOS: Insyde 11/10/2015 M/B Driver: Demo ver.0.2.1511.1 CPU: Intel / Core i7-6700 (Skylake-S/R0-SR2BT) / 3.4GHz DIMM Slot: DIMM-4 (Single channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / It iHAS324-07 SATA Power: Enermax / ELT400AWT 400W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:26.7°C CPU Temp.:38°C CPU Temp. after 3DMark:34°C 1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600 READ:16801 MB/s WRITE:16058 MB/s COPY:17098 MB/s 2.Passmark Performance Test 8.0 Build 1052 CPU Mark:9453 Memory Mark:2165 3.3DMark for Windows Ver.1.5.915 Cloud Gate:8089 Ice Storm Extreme:46840 Skydiver:4129 Fire Strike:865	Pass

<p><b>2</b></p>	<p>Apacer (78.B1GMS.4050B 1.2V)          [512Mx8b-x8/512Mx64b 1200MHz,CL=17] /          SEC (K4A4G085WD-BCRC) /          PC4-19200 (DDR4-2400) /          4GB *2</p>	<p>M/B: SD631-Q170CRM Rev.2 (021) (BSF450400019)          M/B BIOS: Insyde 11/10/2015          M/B Driver: Demo ver.0.2.1511.1          CPU: Intel / Core i5-6500 (Skylake-S/R0-SR2BX) / 3.2GHz          DIMM Slot: DIMM-1/3 (Dual channel)          SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5"          Display: On Board          DVD-RW: Lite-On / It iHAS324-07 SATA          Power: Enermax / ELT400AWT 400W          O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English)          Test Summary: Environment Temp.:28.0°C          CPU Temp.:35°C          CPU Temp. after 3DMark:34°C          1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600          READ:30885 MB/s          WRITE:31687 MB/s          COPY:28246 MB/s          2.Passmark Performance Test 8.0 Build 1052          CPU Mark:7100          Memory Mark:2508          3.3DMark for Windows Ver.1.5.915          Cloud Gate:7602          Ice Storm Extreme:48551          Skydiver:4149          Fire Strike:948</p>	<p><b>Pass</b></p>
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No.	DDR4 Module	Test Environment	Result
<b>3</b>	Innodisk (M4UR-AGS1KCOG-B 1.2V) [1Gx8b-x16/2048Mx64b 1066MHz,CL=15] / SEC (K4A8G085WB-BCPB) / PC4-17000 (DDR4-2133) / 16GB *4	M/B: SD631-Q170CRM Rev.2 (021) (BSF450400019) M/B BIOS: Insyde 11/10/2015 M/B Driver: Demo ver.0.2.1511.1 CPU: Intel / Core i7-6700 (Skylake-S/R0-SR2BT) / 3.4GHz DIMM Slot: DIMM-1/2/3/4 (Dual channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / It iHAS324-07 SATA Power: Enermax / ELT400AWT 400W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:26.7°C CPU Temp.:38°C CPU Temp. after 3DMark:34°C 1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600 READ:29774 MB/s WRITE:32479 MB/s COPY:31016 MB/s 2.Passmark Performance Test 8.0 Build 1052 CPU Mark:9656 Memory Mark:2783 3.3DMark for Windows Ver.1.5.915 Cloud Gate:9407 Ice Storm Extreme:57056 Skydiver:4554 Fire Strike:1070	<b>Pass</b>



<b>4</b>	<p>ADATA (AD4U2133W8G15-BHYM 1.2V) [512Mx8b-x16/1024Mx64b 1066MHz,CL=15] / SKhynix (H5AN4G8NMFR-TFC) / PC4-17000 (DDR4-2133) / 8GB *2</p>	<p>M/B: SD631-Q170CRM Rev.2 (021) (BSF450400019) M/B BIOS: Insyde 11/10/2015 M/B Driver: Demo ver.0.2.1511.1 CPU: Intel / Skylake-S (QHVZ) / 2.2GHz DIMM Slot: DIMM-1/3 (Dual channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / It iHAS324-07 SATA Power: Enermax / ELT400AWT 400W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:26.7°C CPU Temp.:21°C CPU Temp. after 3DMark:21°C 1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600 READ:29725 MB/s WRITE:31999 MB/s COPY:29253 MB/s 2.Passmark Performance Test 8.0 Build 1052 CPU Mark:4674 Memory Mark:2104 3.3DMark for Windows Ver.1.5.915 Cloud Gate:6299 Ice Storm Extreme:41732 Skydiver:3371 Fire Strike:805</p>	<b>Pass</b>
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No.	DDR4 Module	Test Environment	Result
5	Transcend (TS1GLH64V1H 1.2V) [512Mx8b 1066MHz,CL=15,tRCD=15,tRP=15] / SEC (K4A4G085WD-BCPB) / PC4-17000 (DDR4-2133) / 8GB *1	M/B: SD631-Q170CRM Rev.2 (021) (BSF450400019) M/B BIOS: Insyde 11/10/2015 M/B Driver: Demo ver.0.2.1511.1 CPU: Intel / Skylake-S (QHQG) / 2.2GHz DIMM Slot: DIMM-2 (Single channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / It iHAS324-07 SATA Power: Enermax / ELT400AWT 400W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:26℃ CPU Temp.:24℃ CPU Temp. after 3DMark:21℃ 1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600 READ:16371 MB/s WRITE:15756 MB/s COPY:16075 MB/s 2.Passmark Performance Test 8.0 Build 1052 CPU Mark:5845 Memory Mark:1755 3.3DMark for Windows Ver.1.5.915 Cloud Gate:5835 Ice Storm Extreme:32529 Skydiver:2807 Fire Strike:624	Pass

<p><b>6</b></p>	<p>AADATA (AD4U2133W8G15-BHYA 1.2V)          [512Mx8/1024Mx8,CL=15 tRCD=15,tRP=15] /          SKhynix (H5AN4G8NAFR-TFC) /          PC4-17000 (DDR4-2133) /          8GB *4</p>	<p>M/B: SD631-Q170CRM Rev.2 (021) (BSF450400014)          M/B BIOS: Insyde 01/21/2016          M/B Driver: Demo ver.0.2.1601.0          CPU: Intel / Core i7-6700 (Skylake-S/R0-SR2BT) / 3.4GHz          DIMM Slot: DIMM-1/2/3/4 (Dual channel)          SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5"          Display: On Board          DVD-ROM: Pioneer / DVD-230DW 18X SATA          Power: Jagier / KY-580ATX 480W          O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English)          Test Summary: Environment Temp.:27.2℃          CPU Temp.:37.5℃          CPU Temp. after 3DMark:35.5℃          1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700          READ:29922 MB/s          WRITE:31552 MB/s          COPY:31225 MB/s          2.Passmark Performance Test 8.0 Build 1053          CPU Mark:10559          Memory Mark:2880          3.3DMark for Windows Ver.1.5.915          Cloud Gate:9386          Ice Storm Extreme:57017          Skydiver:4540          Fire Strike:1067</p>	<p><b>Pass</b></p>
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No.	DDR4 Module	Test Environment	Result
<b>7</b>	Innodisk (M4UR-4GSSJCOG-D 1.2V) [512Mx8b-x8/512Mx64b 1066MHz,CL=15] / SEC (K4A4G085WD-BCPB) / PC4-17000 (DDR4-2133) / 4GB *1	M/B: SD631-Q170CRM Rev.2 (021) (BSF450400019) M/B BIOS: Insyde 11/10/2015 M/B Driver: Demo ver.0.2.1511.1 CPU: Intel / Skylake-S (QHVX) / 2.4GHz DIMM Slot: DIMM-3 (Single channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / It iHAS324-07 SATA Power: Enermax / ELT400AWT 400W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:26.7°C CPU Temp.:21°C CPU Temp. after 3DMark:20°C 1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600 READ:16016 MB/s WRITE:15565 MB/s COPY:15375 MB/s 2.Passmark Performance Test 8.0 Build 1052 CPU Mark:6138 Memory Mark:1621 3.3DMark for Windows Ver.1.5.915 Cloud Gate:6251 Ice Storm Extreme:33560 Skydiver:3078 Fire Strike:676	<b>Pass</b>

<b>8</b>	Transcend (TS512MLH64V1H 1.2V) [512Mx8b 1066MHz,CL=15,tRCD=15,tRP=15] / SEC (K4A4G085WD-BCPB) / PC4-17000 (DDR4-2133) / 4GB *2	M/B: SD631-Q170CRM Rev.2 (021) (BSF450400019) M/B BIOS: Insyde 11/10/2015 M/B Driver: Demo ver.0.2.1511.1 CPU: Intel / Core i3-6100 (Skylake-S/S0-SR2HG) / 3.7GHz DIMM Slot: DIMM-2/4 (Dual channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-RW: Lite-On / It iHAS324-07 SATA Power: Enermax / ELT400AWT 400W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:28.6°C CPU Temp.:47°C CPU Temp. after 3DMark:45°C 1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600 READ:30578 MB/s WRITE:31817 MB/s COPY:26637 MB/s 2.Passmark Performance Test 8.0 Build 1052 CPU Mark:5717 Memory Mark:2680 3.3DMark for Windows Ver.1.5.915 Cloud Gate:6953 Ice Storm Extreme:46163 Skydiver:3947 Fire Strike:919	<b>Pass</b>



No.	DDR4 Module	Test Environment	Result
<b>9</b>	Innodisk (M4CR-AGS1MCOG-B 1.2V) [1Gx8-x18/2048Mx72 1066MHz,CL=15] / SEC (K4A8G085WB-BCPB) / PC4-17000 (DDR4-2133)/ECC / 16GB *1	M/B: SD631-C236CRM Rev.2 (021) (BSF450500006) M/B BIOS: Insyde 11/10/2015 M/B Driver: Demo ver.0.2.1511.1 CPU: Intel / Xeon E3-1225 V5 (Skylake-S/QJ7D) / 3.3GHz DIMM Slot: DIMM-1 (Single channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Sea Sonic / SS-400ET 400W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:26.9°C CPU Temp.:35°C CPU Temp. after 3DMark:32°C 1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600 READ:16917 MB/s WRITE:15839 MB/s COPY:16898 MB/s 2.Passmark Performance Test 8.0 Build 1052 CPU Mark:7454 Memory Mark:2192 3.3DMark for Windows Ver.1.5.915 Cloud Gate:5854 Ice Storm Extreme:36631 Skydiver:3260 Fire Strike:732	<b>Pass</b>

<p><b>10</b></p>	<p>Transcend (TS2GLH64V1B 1.2V)          [1024Mx8,CL=15,tRCD=15,tRP=15] /          SEC (K4A8G0B) /          PC4-17000 (DDR4-2133)/ECC /          16GB *4</p>	<p>M/B: SD631-Q170CRM Rev.2 (021) (BSF450400019)          M/B BIOS: Insyde 11/10/2015          M/B Driver: Demo ver.0.2.1511.1          CPU: Intel / Pentium-G4400 (Skylake-S/R0-SR2DC) / 3.3GHz          DIMM Slot: DIMM-1/2/3/4 (Dual channel)          SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5"          Display: On Board          DVD-RW: Lite-On / It iHAS324-07 SATA          Power: Enermax / ELT400AWT 400W          O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English)          Test Summary: Environment Temp.:26.7°C          CPU Temp.:31°C          CPU Temp. after 3DMark:30°C          1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600          READ:28378 MB/s          WRITE:32566 MB/s          COPY:30573 MB/s          2.Passmark Performance Test 8.0 Build 1052          CPU Mark:3861          Memory Mark:2760          3.3DMark for Windows Ver.1.5.915          Cloud Gate:4419          Ice Storm Extreme:26077          Skydiver:2330          Fire Strike:575</p>	<p><b>Pass</b></p>
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No.	DDR4 Module	Test Environment	Result
11	Transcend (TS512MLH72V1H 1.2V) [512Mx8-x9/512Mx72 1066MHz,CL=15,tRCD=15,tRP=15] / SEC (K4A4G085WD-BCPB) / PC4-17000 (DDR4-2133)/ECC / 16GB *4	M/B: SD631-C236CRM Rev.2 (021) (BSF450500006) M/B BIOS: Insyde 11/10/2015 M/B Driver: Demo ver.0.2.1511.1 CPU: Intel / Xeon E3-1225 V5 (Skylake-S/QJ7D) / 3.3GHz DIMM Slot: DIMM-1/2/3/4 (Dual channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Sea Sonic / SS-400ET 400W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:26.9°C CPU Temp.:35°C CPU Temp. after 3DMark:32°C 1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600 READ:29883 MB/s WRITE:32492 MB/s COPY:31281 MB/s 2.Passmark Performance Test 8.0 Build 1052 CPU Mark:7447 Memory Mark:2777 3.3DMark for Windows Ver.1.5.915 Cloud Gate:8018 Ice Storm Extreme:51758 Skydiver:4426 Fire Strike:1034	Pass



<b>12</b>	Transcend (TS1GLH72V1H 1.2V) [512Mx8-x9/512Mx72 1066MHz,CL=15,tRCD=15,tRP=15] / SEC (K4A4G085WB-BCPB) / PC4-17000 (DDR4-2133)/ECC / 8GB *2	M/B: SD631-C236CRM Rev.2 (021) (BSF450500006) M/B BIOS: Insyde 11/10/2015 M/B Driver: Demo ver.0.2.1511.1 CPU: Intel / Xeon E3-1275 V5 (Skylake-S/QJ6Z) / 3.6GHz DIMM Slot: DIMM-2/4 (Dual channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-RW: Pioneer / DVD-230DW 18X SATA Power: Sea Sonic / SS-400ET 400W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:27.6℃ CPU Temp.:42℃ CPU Temp. after 3DMark:41℃ 1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600 READ:31416 MB/s WRITE:32500 MB/s COPY:30903 MB/s 2.Passmark Performance Test 8.0 Build 1052 CPU Mark:10070 Memory Mark:2810 3.3DMark for Windows Ver.1.5.915 Cloud Gate:9232 Ice Storm Extreme:51654 Skydiver:4596 Fire Strike:1070	<b>Pass</b>



No.	DDR4 Module	Test Environment	Result
<b>13</b>	ADATA (AD4E2133W8G15-BHYA 1.2V) [512Mx8/1024 x8 2133MHz@CL=15, tRCD=15,tRP=15] / SKhynix (H5AN4G8NAFR TFC) / PC4-17000 (DDR4-2133)/ECC / 8GB *	M/B: SD631-C236CRM Rev.2 (021) (BSF450500005) M/B BIOS: Insyde 01/21/2016 M/B Driver: Demo ver.0.2.1601.0 CPU: Intel / Xeon E3-1268L V5 (Skylake-S/QJH1) / 2.4GHz DIMM Slot: DIMM-1/2/3/4 (Dual channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:28.2°C CPU Temp.:26.5°C CPU Temp. after 3DMark:21.5°C 1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700 READ:28989 MB/s WRITE:32604 MB/s COPY:30188 MB/s 2.Passmark Performance Test 8.0 Build 1053 CPU Mark:9050 Memory Mark:2614 3.3DMark for Windows Ver.1.5.915 Cloud Gate:8280 Ice Storm Extreme:49617 Skydiver:3967 Fire Strike:947	<b>Pass</b>

<p><b>14</b></p>	<p>Transcend (TS512MLH72V1H 1.2V)          [512Mx8/1024Mx8          1066MHz@CL=15,tRCD=15,tRP=15] /          SEC (K4A4G085WB-BCPB) /          PC4-17000 (DDR4-2133)/ECC /          4GB *2</p>	<p>M/B: SD631-C236CRM Rev.2 (021) (BSF450500006)          M/B BIOS: Insyde 11/10/2015          M/B Driver: Demo ver.0.2.1511.1          CPU: Intel / Xeon E3-1268L V5 (Skylake-S/QJH1) / 2.4GHz          DIMM Slot: DIMM-1/3 (Dual channel)          SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5"          Display: On Board          DVD-ROM: Pioneer / DVD-230DW 18X SATA          Power: Sea Sonic / SS-400ET 400W          O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English)          Test Summary: Environment Temp.:28.0°C          CPU Temp.:25°C          CPU Temp. after 3DMark:26°C          1.AIDA64 Cache and Memory Benchmark Ver.5.50.3600          READ:30103 MB/s          WRITE:31682 MB/s          COPY:28264 MB/s          2.Passmark Performance Test 8.0 Build 1052          CPU Mark:6867          Memory Mark:2136          3.3DMark for Windows Ver.1.5.915          Cloud Gate:8053          Ice Storm Extreme:44590          Skydiver:4046          Fire Strike:916</p>	<p><b>Pass</b></p>
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