

1. Stability Test: Rev.011

1.1 CPU Function Test:

Test Purpose	Test CPU functions work normally under Windows Operating System
Test Procedure	<ol style="list-style-type: none"> 1. Install Windows Operating System 2. Install M/B Device Driver 3. CPU-Z check CPU info 4. Run AIDA64 Cache and Memory Benchmark Ver.5.60.3700 1 time 5. Run Passmark Performance Test 8.0 Build1053 1 time 6. Run 3DMark for Windows Ver.1.5.915 BenchMark 3 times 7. S3/Hibernate Test 3 times
Test Criteria	It should be no problem for all tests

No.	CPU	Type	CPU Temp.	Result
1	Intel / 2.40GHz	Core i7-6700TE (Skylake-S/R0-SR2LP) / 35W / LGA1151	32 °C	Pass
2	Intel / 3.20GHz	Core i5-6500 (Skylake-S/QJEF) / 65W / LGA1151	29.5 °C	Pass
3	Intel / 2.30GHz	Core i5-6500TE (Skylake-S/R0-SR2LR) / 35W / LGA1151	56.5 °C	Pass (was:ID3376)
4	Intel / 2.70GHz	Core i3-6100TE (Skylake-S/R0-SR2LS) / 35W / LGA1151	45 °C	Pass
5	Intel / 3.70GHz	Core i3-6100 (Skylake-S/S0-SR2HG) / 51W / LGA1151	27.5 °C	Pass
6	Intel / 3.30GHz	Pentium-G4400 (Skylake-S/R0-SR2DC) / 54W / LGA1151	30 °C	Pass
7	Intel / 2.40GHz	Pentium-G4400TE (Skylake-S/R0-SR2LT) / 35W / LGA1151	32 °C	Pass

1.2 Memory Function Test:

Test Purpose	Test Memory functions work normally under Windows Operating System
Test Procedure	<ol style="list-style-type: none"> 1. Install Windows Operating System 2. Install M/B Device Driver 3. Run AIDA64 Cache and Memory Benchmark Ver.5.60.3700 1 time 4. Run Passmark Performance Test 8.0 Build1053 1 time 5. Run 3DMark for Windows Ver.1.5.915 BenchMark 3 times 6. S3/Hibernate Test 3 times
Test Criteria	It should be no problem for the test

1.2.1 DDR4:

No.	Function	Result
1	Single Channel mode	Pass
2	Dual channel mode	Pass
3	DIMM Slot1	Pass
4	DIMM Slot2	Pass

1.2.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
1	MemTest86 Ver.6.0.0	1. Burn-In test 12 hours.	M/B: SD100-Q170NRM Rev.2 (021) (BSF480400011) M/B BIOS: Insyde 12/28/2015(Insyde) M/B Driver: Demo ver.0.2.1512.0 CPU: Intel / Core i7-6700TE (Skylake-S/R0-SR2LP) / 2.4GHz DDR4: Innodisk (M4SR-AGS10C0G-B 1.2V) [1Gx8b-x16/2048Mx64b 1066MHz@CL=15,tRCD=15,tRP=15] / SEC (K4A8G085WB-BCPB) / PC4-17000 (DDR4-2133) / 16GB *2 SSD: Intel / SSDSC2CT080A4 SATA3 80GB/2.5" Display: On Board (using D-Sub) DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Delta / GPS-500BB 500W O.S.: DOS	Pass

1.2.3 DDR4 SO-DIMM Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	Innodisk	SEC	16GB	PC4-17000 (DDR4-2133)	K4A8G085WB-BCPB	M4SR-AGS10C0G-B 1.2V [1Gx8b-x16/2048Mx64b 1066MHz@CL=15,tRCD=15,tRP=15]	Pass
2	Transcend	SEC	16GB	PC4-17000 (DDR4-2133)	K4A8G085WB-BCPB	TS2GSH64V1B 1.2V [512Mx8b,CL=15,tRCD=15,tRP=15]	Pass
3	ADATA	SEC	16GB	PC4-17000 (DDR4-2133)	K4A8G085WB-BCPB	AD4S2133316G15-BSSB 1.2V [512Mx8/1024Mx8,CL=15,tRCD=15,tRP=15]	Pass
4	Transcend	SEC	8GB	PC4-17000 (DDR4-2133)	K4A4G085WD-BCPB	TS1GSH64V1H 1.2V [512Mx8b,CL=15,tRCD=15,tRP=15]	Pass
5	Kingston	SKhynix	8GB	PC4-17000 (DDR4-2133)	H5AN4G8NAFR-TFC	CBD21D4S15HAG 1.2V [512Mx8-bit/Data Rate:2133Mbps z@CL=15,tRCD=15,tRP=15]	Pass
6	Transcend	SEC	4GB	PC4-17000 (DDR4-2133)	K4A4G085WD-BCPB	TS512MSH64V1H 1.2V [512Mx8b-x8/512Mx64b 1066MHz@CL=15,tRCD=15,tRP=15]	Pass
7	ADATA	ADATA	4GB	PC4-17000 (DDR4-2133)	4WQA-0915A-M1511V	AD4S2133W4G15-BHYM 1.2V [512Mx8b-x8/512Mx64b 1066MHz@CL=15,tRCD=15,tRP=15]	Pass
8	Transcend	SEC	4GB	PC4-17000 (DDR4-2133)	K4A4G085WD-BCPB	TS512MSH64V1H 1.2V [512Mx8b,CL=15,tRCD=15,tRP=15]	Pass
9	Kingston	SKhynix	4GB	PC4-17000 (DDR4-2133)	H5AN4G8NAFR-TFC	CBD21D4S15HAG 1.2V [512Mx8-bit/Data Rate:2133Mbps z@CL=15,tRCD=15,tRP=15]	Pass

1.2.4 DDR4 SO-DIMM Module Test Procedures:

No.	DDR4 Module	Test Environment	Result
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1	<p>Innodisk (M4SR-AGS10C0G-B 1.2V) [1Gx8b-x16/2048Mx64b 1066MHz@CL=15,tRCD=15,tRP=15] / SEC (K4A8G085WB-BCPB) / PC4-17000 (DDR4-2133) / 16GB *2</p>	<p>M/B: SD100-Q170NRM Rev.2 (021) (BSF480400011) M/B BIOS: Insyde 12/28/2015 M/B Driver: Demo ver.0.2.1512.0 CPU: Intel / Core i7-6700TE (Skylake-S/R0-SR2LP) / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CT080A4 SATA3 80GB/2.5" Display: On Board (using D-Sub) DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:23.1℃ CPU Temp.:32.0℃ CPU Temp. after 3DMark:32.0℃ 1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700 READ:30459 MB/s WRITE:30689 MB/s COPY:30689 MB/s 2.PassMark Performance Test 8.0 Build 1053 CPU Mark:8897 Memory Mark:2626 3.3DMark for Windows Ver.1.5.915 Cloud Gate:7616 Ice Storm:49609 Sky Diver:4129 Strike Test:978</p>	Pass
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No.	DDR4 Module	Test Environment	Result
2	Transcend (TS2GSH64V1B 1.2V) [512Mx8b,CL=15,tRCD=15,tRP=15] / SEC (K4A8G085WB-BCPB) / PC4-17000 (DDR4-2133) / 16GB *2	M/B: SD100-Q170NRM Rev.2 (021) (BSF480400011) M/B BIOS: Insyde 12/28/2015 M/B Driver: Demo ver.0.2.1512.0 CPU: Intel / Pentium-G4400 (Skylake-S/R0-SR2DC) / 3.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CT080A4 SATA3 80GB/2.5" Display: On Board (using D-Sub) DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:22.9°C CPU Temp.:32.5°C CPU Temp. after 3DMark:30.0°C 1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700 READ:28789 MB/s WRITE:32396 MB/s COPY:30059 MB/s 2.PassMark Performance Test 8.0 Build 1053 CPU Mark:3905 Memory Mark:2736 3.3DMark for Windows Ver.1.5.915 Cloud Gate:4416 Ice Storm:25906 Sky Diver:2316 Strike Test:572	Pass

3	<p>ADATA (AD4S2133316G15-BSSB 1.2V) [512Mx8/1024Mx8,CL=15,tRCD=15,tRP=15] / SEC (K4A8G085WB-BCPB) / PC4-17000 (DDR4-2133) / 16GB *2</p>	<p>M/B: SD100-H110N Rev.2 (021) (BSF480500020) M/B BIOS: Insyde 12/28/2015 M/B Driver: Demo ver.0.2.1512.0 CPU: Intel / Core i3-6100 (Skylake-S/S0-SR2HG) / 3.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CT080A4 SATA3 80GB/2.5" Display: On Board (using D-Sub) DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:22.4°C CPU Temp.:28.50°C CPU Temp. after 3DMark:27.5°C 1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700 READ:22961 MB/s WRITE:32310 MB/s COPY:30003 MB/s 2.PassMark Performance Test 8.0 Build 1053 CPU Mark:5727 Memory Mark:2852 3.3DMark for Windows Ver.1.5.915 Cloud Gate:7152 Ice Storm:50286 Sky Diver:3931 Strike Test:938</p>	Pass
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No.	DDR4 Module	Test Environment	Result
4	Transcend (TS1GSH64V1H 1.2V) [512Mx8b,CL=15,tRCD=15,tRP=15] / SEC (K4A4G085WD-BCPB) / PC4-17000 (DDR4-2133) / 8GB *2	M/B: SD100-Q170NRM Rev.2 (021) (BSF480400011) M/B BIOS: Insyde 12/28/2015 M/B Driver: Demo ver.0.2.1512.0 CPU: Intel / Core i5-6500 (Skylake-S/R0-SR2BX) / 3.2GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CT080A4 SATA3 80GB/2.5" Display: On Board (using D-Sub) DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:23.8°C CPU Temp.:30.5°C CPU Temp. after 3DMark:29.5°C 1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700 READ:30705 MB/s WRITE:32594 MB/s COPY:30541MB/s 2.PassMark Performance Test 8.0 Build 1053 CPU Mark:7338 Memory Mark:2639 3.3DMark for Windows Ver.1.5.915 Cloud Gate:7677 Ice Storm:49848 Sky Diver:4156 Strike Test:978	Pass

5	<p>Kingston (CBD21D4S15HAG 1.2V) [512Mx8-bit/Data Rate:2133Mbps z@CL=15,tRCD=15,tRP=15] / SKhynix (H5AN4G8NAFR-TFC) / PC4-17000 (DDR4-2133) / 8GB *2</p>	<p>M/B: SD100-Q170NRM Rev.2 (021) (BSF480400011) M/B BIOS: Insyde 12/28/2015 M/B Driver: Demo ver.0.2.1512.0 CPU: Intel / Core i5-6500TE (Skylake-S/R0-SR2LR) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CT080A4 SATA3 80GB/2.5" Display: On Board (using D-Sub) DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:23.0°C CPU Temp.:57.0°C CPU Temp. after 3DMark:56.5°C 1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700 READ:30469 MB/s WRITE:32409 MB/s COPY:29972MB/s 2.PassMark Performance Test 8.0 Build 1053 CPU Mark:6702 Memory Mark:2635 3.3DMark for Windows Ver.1.5.915 Cloud Gate:7192 Ice Storm:47197 Sky Diver:3942 Strike Test:932</p>	Pass
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No.	DDR4 Module	Test Environment	Result
6	Transcend (TS512MSH64V1H 1.2V) [512Mx8b-x8/512Mx64b 1066MHz@CL=15,tRCD=15,tRP=15] / SEC (K4A4G085WD-BCPB) / PC4-17000 (DDR4-2133) / 4GB *2	M/B: SD100-Q170NRM Rev.2 (021) (BSF480400011) M/B BIOS: Insyde 12/28/2015 M/B Driver: Demo ver.0.2.1512.0 CPU: Intel / Pentium-G4400 (Skylake-S/R0-SR2DC) / 3.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CT080A4 SATA3 80GB/2.5" Display: On Board (using D-Sub) DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:22.6°C CPU Temp.:26.5°C CPU Temp. after 3DMark:26.0°C 1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700 READ:27353 MB/s WRITE:30437 MB/s COPY:25952 MB/s 2.PassMark Performance Test 8.0 Build 1053 CPU Mark:3954 Memory Mark:2485 3.3DMark for Windows Ver.1.5.915 Cloud Gate:4375 Ice Storm:25795 Sky Diver:2304 Strike Test:566	Pass

7	<p>ADATA (AD4S2133W4G15-BHYM 1.2V) [512Mx8b-x8/512Mx64b 1066MHz@CL=15,tRCD=15,tRP=15] / ADATA (4WQA-0915A-M1511V) / PC4-17000 (DDR4-2133) / 4GB *2</p>	<p>M/B: SD100-Q170NRM Rev.2 (021) (BSF480400011) M/B BIOS: Insyde 12/28/2015 M/B Driver: Demo ver.0.2.1512.0 CPU: Intel / Pentium-G4400 (Skylake-S/R0-SR2DC) / 3.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CT080A4 SATA3 80GB/2.5" Display: On Board (using D-Sub) DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:23.9°C CPU Temp.:28.5°C CPU Temp. after 3DMark:27.5°C 1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700 READ:29119 MB/s WRITE:31792 MB/s COPY:26879 MB/s 2.PassMark Performance Test 8.0 Build 1053 CPU Mark:3953 Memory Mark:2531 3.3DMark for Windows Ver.1.5.915 Cloud Gate:4397 Ice Storm:25826 Sky Diver:2305 Strike Test:570</p>	Pass
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No.	DDR4 Module	Test Environment	Result
8	Transcend (TS512MSH64V1H 1.2V) [512Mx8b,CL=15,tRCD=15,tRP=15] / SEC (K4A4G085WD-BCPB) / PC4-17000 (DDR4-2133) / 4GB *2	M/B: SD100-Q170NRM Rev.2 (021) (BSF480400011) M/B BIOS: Insyde 12/28/2015 M/B Driver: Demo ver.0.2.1512.0 CPU: Intel / Pentium-G4400TE (Skylake-S/R0-SR2LT) / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CT080A4 SATA3 80GB/2.5" Display: On Board (using D-Sub) DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:24.0°C CPU Temp.:32.0°C CPU Temp. after 3DMark:32.0°C 1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700 READ:26973 MB/s WRITE:31831 MB/s COPY:26734 MB/s 2.PassMark Performance Test 8.0 Build 1053 CPU Mark:2861 Memory Mark:2105 3.3DMark for Windows Ver.1.5.915 Cloud Gate:3832 Ice Storm:23347 Sky Diver:2187 Strike Test:540	Pass

<p>9</p>	<p>Kingston (CBD21D4S15HAG 1.2V) [512Mx8-bit/Data Rate:2133Mbps z@CL=15,tRCD=15,tRP=15] / SKhynix (H5AN4G8NAFR-TFC) / PC4-17000 (DDR4-2133) / 4GB *2</p>	<p>M/B: SD100-Q170NRM Rev.2 (021) (BSF480400011) M/B BIOS: Insyde 12/28/2015 M/B Driver: Demo ver.0.2.1512.0 CPU: Intel / Core i3-6100TE (Skylake-S/R0-SR2LS) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CT080A4 SATA3 80GB/2.5" Display: On Board (using D-Sub) DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:24.0°C CPU Temp.:46.0°C CPU Temp. after 3DMark:45.0°C 1.AIDA64 Cache and Memory Benchmark Ver.5.60.3700 READ:29988 MB/s WRITE:31870 MB/s COPY:26934 MB/s 2.PassMark Performance Test 8.0 Build 1053 CPU Mark:4330 Memory Mark:2294 3.3DMark for Windows Ver.1.5.915 Cloud Gate:6093 Ice Storm:42575 Sky Diver:3722 Strike Test:879</p>	<p>Pass</p>
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