

# 1. Stability Test:

## 1.1 CPU Function Test:

<b>Test Purpose</b>	Test CPU functions work normally under Windows Operating System
<b>Test Procedure</b>	1. Install Windows operating system 2. Install M/B device drivers 3. Check CPU temperature in BIOS setup menu 4. Run 3DMark for Windows Ver.2.4.4264 BenchMark 3 times and check CPU Temp. 5. Using CPU-Z check CPU info
<b>Test Criteria</b>	It should be correct for each test step

No.	CPU	Type	Idle CPU Temp.	Full Loading CPU Temp.	Result
1	Intel / 4.20GHz	Core i7-7700K (KabyLake / SR33A) / 91W / LGA1151	52.0°C	58.0°C	Pass
2	Intel / 3.60GHz	Core i7-7700 (KabyLake / SR338) / 65W / LGA1151	50.5°C	57.5°C	Pass
3	Intel / 3.50GHz	Core i5-7600 (KabyLake / SR334) / 65W / LGA1151	45.5°C	50.0°C	Pass
4	Intel / 3.70GHz	Core i3-6100(Skylake-S/S0-SR2HG) / 51W / LGA1151	48.0°C	55.5°C	Pass
5	Intel / 3.30GHz	Pentium-G4400 (Skylake-S/R0-SR2DC) / 54W / LGA1151	36.5°C	40.5°C	Pass
6	Intel / 2.80GHz	Celeron G3900(Skylake-S/S0-SR2HV) / 51W / LGA1151	35.0°C	35.0°C	Pass

### 1.1.1 Application Test:

No.	Software	Test Keypoint	Result
1	CPU-Z	1. Check all information.	Pass

## 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.5.97.4600 1 time</li> <li>4. Run Passmark Performance Test 9.0 Build1023 1 time</li> <li>5. Run 3DMark for Windows Ver.2.4.4264 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	Warning beep sound when no memory install	Pass

### 1.2.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
1	MemTest86 Ver.7.5.0	1. Stress test 24 hours.	DDR4: PC4-19200 (DDR4-2400) / Transcend-TS2GLH64V4B / SEC-K4A8G085wB-BCRC / 16GB*4 (Non ECC) (DR041-1/2/3/4) (DIMM-1/2/3/4) Dual Channel O.S.: DOS	Pass

### 1.2.3 DDR4 Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	Transcend	Samsung	16GB	PC4-19200 (DDR4-2400)	K4A8G085wB-BCRC	TS2GLH64V4B	Pass
2	Kingston	Micron	16GB	PC4-19200 (DDR4-2400)	7TE77 D9VPP	CBD24D4U7D8ME-16	Pass
3	Kingston	Micron	8GB	PC4-19200 (DDR4-2400)	7TE77 D9VPP	CBD24D4U7S8ME-8	Pass
4	Kingston	Micron	4GB	PC4-19200 (DDR4-2400)	7QE75 D9WFH	CBD24D4U7S1ME-4	Pass
5	Kingston	Micron	16GB	PC4-19200 (DDR4-2400)	7TE77 D9VPP	CBD24D4U7D8ME-16	Pass

## 1.2.4 DDR4 Module Test Procedures:

No.	DDR4 Module	Test Procedures	Result
1	PC4-19200 (DDR4-2400) / Transcend-TS2GLH64V4B / SEC-K4A8G085wB-BCRC / 16GB*4 (Non ECC)	M/B: KD600-Q170 Rev.2 (021) (BSI191610002) M/B BIOS: B183.07A (Insyde) CPU: Intel (R) Core (TM) i7-7700 CPU @ 3.60GHz (SR338) DIMM Slot: DIMM-1/2/3/4 Dual Channel Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.4600) DUAL CHANNEL(DIMM-1/2/3/4) READ:31706 MB/s WRITE:35924 MB/s COPY:33466 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:11657.4 Memory Mark:3041.8 3DMark for Windows(V 2.4.4264)3times Cloud Gate:10401 Ice Storm Extreme:62949 Skydiver: 5159 Fire Strike:1279	Pass
2	PC4-19200 (DDR4-2400) / Kingston-CBD24D4U7D8ME-16 / Micron-7TE77 D9VPP / 16GB*4 (Non ECC)	M/B: KD600-Q170 Rev.2 (021) (BSI191610002) M/B BIOS: B183.07A (Insyde) CPU: Intel (R) Core (TM) i5-7600 CPU @ 3.50GHz (SR334) (CP086) DIMM Slot: DIMM-1/2/3/4 Dual Channel Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.4600) DUAL CHANNEL(DIMM-1/2/3/4) READ:33515 MB/s WRITE:36720 MB/s COPY:33127 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:9433.7 Memory Mark:3021.6 3DMark for Windows(V 2.4.4264)3times Cloud Gate:9124 Ice Storm Extreme:62161 Skydiver: 4934 Fire Strike:1215	Pass
3	PC4-19200 (DDR4-2400) / Kingston-CBD24D4U7S8ME-8 / Micron-7TE77 D9VPP / 8GB*2 (Non ECC)	M/B: KD600-H110 Rev.2 (021) (BSI191510017) M/B BIOS: B183.07B (Insyde) CPU: Intel Core i3-6100 Processor 3.70GHz(SR2HG) (CP070-3) DIMM Slot: DIMM-1/3 Dual Channel Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.4600) DUAL CHANNEL(DIMM-1/3) READ:29977 MB/s WRITE:30649 MB/s COPY:26230 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:5945.6 Memory Mark:2669.5 3DMark for Windows(V 2.4.4264)3times Cloud Gate:7182 Ice Storm Extreme:49752 Skydiver: 4101 Fire Strike:996	Pass
4	PC4-19200 (DDR4-2400) / Kingston-CBD24D4U7S1ME-4 / Micron-7QE75 D9WFH / 4GB*2 (Non ECC)	M/B: KD600-H110 Rev.2 (021) (BSI191510017) M/B BIOS: B183.07B (Insyde) CPU: Intel Celeron G3900 Processor 2.8GHz(SR2HV) (CP079-1) DIMM Slot: DIMM-1/3 Dual Channel Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.4600) DUAL CHANNEL(DIMM-1/3) READ:27693 MB/s WRITE:30416 MB/s COPY:23555 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:3102.1 Memory Mark:2081.2 3DMark for Windows(V 2.4.4264)3times Cloud Gate:4001 Ice Storm Extreme:25230 Skydiver: 2162 Fire Strike:550	Pass

5	PC4-19200 (DDR4-2400) / Kingston-CBD24D4U7D8ME-16 / Micron-7TE77 D9VPP / 16GB*1 (Non ECC)	M/B: KD600-H110 Rev.2 (021) (BSI191510017) M/B BIOS: B183.07B (Insyde) CPU: Intel Pentium G4400 Processor 3.3GHz(SR2DC) (CP073-3) DIMM Slot: DIMM-1 Single Channel Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.4600) SINGLE CHANNEL(DIMM-1) READ:15492 MB/s WRITE:15210 MB/s COPY:15127 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:3627.8 Memory Mark:2048.5 3DMark for Windows(V 2.4.4264)3times Cloud Gate:4340 Ice Storm Extreme:25685 Skydiver: 2292 Fire Strike:563	Pass
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