

1. Stability Test:

1.1 CPU Function Test:

Test Purpose	Test CPU functions work normally under Windows Operating System
Test Procedure	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
Test Criteria	It should be correct for each test step

No.	CPU	Type	Idle CPU Temp.	Full Loading CPU Temp.	Result
1	Intel / 2.8GHz	Core i7-7600U (KabyLake/SR33Z) / 15W / FCBGA1356	52.0°C	58.0°C	Pass
2	Intel / 2.6GHz	Core i5-7300U (KabyLake/SR430) / FCBGA1356	50.5°C	57.5°C	Pass
3	Intel / 2.4GHz	Core i3-7100U (KabyLake/SR343) / 15W / FCBGA1356	45.5°C	50.0°C	Pass
4	Intel / 2.2GHz	Celeron 3965U (KabyLake/SR34A) / 15W / FCBGA1356	48.0°C	55.5°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:

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.5.97.4600 1 time 4. Run Passmark Performance Test 9.0 Build1023 1 time 5. Run 3DMark for Windows Ver.2.4.4264 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	DDR4 DIMM Slot Examine	Pass
2	Single Channel mode	Pass
3	Warning beep sound when no memory install	Pass

1.2.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
1	PassMark Memtest86 V7.4 Pro	1. Stress test 24 hours.	DDR4: DDR4:PC4-19200(DDR4-2400)/Kingston-CBD24D4S7 D8ME-16/ Micron-7UE75D9VPP/16GB*/1070108F-1 SINGLE CHANNEL O.S.: DOS	Pass

1.2.3 DDR4 Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	Kingston	Micron	16GB	DDR4-2400	7UE75D9VPP	CBD2 4D4S7D8ME-16	Pass
2	TLA	SEC	8GB	DDR4-2400	K4A4G085WE-BCRC	AD4SS T8GT1WB-FQGE	Pass
3	TLA	SEC	8GB	DDR4-2400	K4A8G165WB-BCRC	AD4SS Z8GT6WB-FQGB	Pass
4	Kingston	Micron	8GB	DDR4-2400	7TE77D9VPP	CBD 24D4S7S8ME-8	Pass
5	TLA	SEC	4GB	DDR4-2400	K4A8G165WB-BCRC	AD4SS Z4GT2WB-FQGB	Pass
6	Transcend	SEC	4GB	DDR4-2133	K4A4G085WD-BCPB	TS5 12MSH64V1H	Pass
7	Kingston	Micron	4GB	DDR4-2400	7VE75D9WFH	CBD 24D4S7S1ME-4	Pass
8	TLA	SEC	4GB	DDR4-2400	K4A4G085WE-BCRC	AD4SS T4GT5WB-FQGE	Pass

1.2.4 DDR4 Module Test Procedures:

No.	DDR4 Module	Test Procedures	Result
1	DDR4-2400/ Kingston- CBD24D4S7D8ME-16/ Micron- 7UE75D9VPP/ 16GB*	DUT: DUT#1 M/B: KU553-EN-7600U Rev.1 (011) (BSI131610002) CPU: Intel Core i7-7600U CPU @ 2.80 Hz (SR33Z) Test Summary: AIDA64 Cache and Memory Benchmark(V5.95.450 0) SINGLE CHANNEL(DIMM-1) READ:15549 MB/s WRITE:15320 MB/s COPY:15251 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:5521.1 Memory Mark:2042.5 3DMark for Windows(V 2.4.4264)3times Cloud Gate:5955 Ice Storm:39100 Sky diver:3930 Fire Strike:866	Pass
2	DDR4-2400/TLA-AD4SS8GT1WB- FQGE/ SEC-K4A4G085WE-BCRC/ 8GB*	DUT: DUT#2 M/B: KU553-BN-7300U Rev.1 (011) (BSI131510008) CPU: Intel Core i5-7300U CPU @ 2.60 Hz (SR430) Test Summary: AIDA64 Cache and Memory Benchmark(V5.95.450 0) SINGLE CHANNEL(DIMM-1) READ:15711 MB/s WRITE:15524 MB/s COPY:15755 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:5368.8 Memory Mark:1987.4 3DMark for Windows(V 2.4.4264)3times Cloud Gate:5939 Ice Storm:36742 Sky diver:3952 Fire Strike:849	Pass
3	DDR4-2400/TLA-AD4SS8GT6WB- FQGB/ SEC- K4A8G165WB-BCRC/ 8GB*	DUT: DUT#5 M/B: KU553-BN-7100U Rev.1 (011) (BSI131510013) CPU: Intel Core i3-7100U CPU @ 2.40 Hz (SR343) Test Summary: AIDA64 Cache and Memory Benchmark(V5.95.450 0) SINGLE CHANNEL(DIMM-1) READ:15037 MB/s WRITE:14517 MB/s COPY:14531 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:3894.8 Memory Mark:1713.3 3DMark for Windows(V 2.4.4264)3times Cloud Gate:5225 Ice Storm:34151 Sky diver:3488 Fire Strike:746	Pass
4	DDR4-2400/ Kingston- CBD24D4S7S8ME-8/ Micron- 7TE77D9VPP/ 8GB*	DUT: DUT#1 M/B: KU553-EN-7600U Rev.1 (011) (BSI131610002) CPU: Intel Core i7-7600U CPU @ 2.80 Hz (SR33Z) Test Summary: AIDA64 Cache and Memory Benchmark(V5.95.450 0) SINGLE CHANNEL(DIMM-1) READ:15347 MB/s WRITE:15248 MB/s COPY:15038 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:4539 Memory Mark:1829.7 3DMark for Windows(V 2.4.4264)3times Cloud Gate:5334 Ice Storm:34138 Sky diver:3833 Fire Strike:803	Pass

5	DDR4-2400/ TLA-AD4SSZ4GT2WB- FQGB/ SEC-K4A8G165WB-BCRC/ 4GB*	DUT: DUT#3 M/B: KU553-BN-3965U Rev.1 (011) (BS1131510005) CPU: Intel Celeron CPU 3965U @ 2.20GHz (SR34A) Test Summary: AIDA64 Cache and Memory Benchmark(V5.95.450 0) SINGLE CHANNEL(DIMM-1) READ:14298 MB/s WRITE:14098 MB/s COPY:12636 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:2402.5 Memory Mark:1405.8 3DMark for Windows(V 2.4.4264)3times Cloud Gate:3143 Ice Storm:19377 Sky diver:1967 Fire Strike:439	Pass
6	DDR4-2133/ Transcend- TS512MSH64V1H/ SEC-K4A4G085WD- BCPB/ 4GB*	DUT: DUT#1 M/B: KU553-EN-7600U Rev.1 (011) (BS1131610002) CPU: Intel Core i7-7600U CPU @ 2.80 Hz (SR33Z) Test Summary: AIDA64 Cache and Memory Benchmark(V5.95.450 0) SINGLE CHANNEL(DIMM-1) READ:15424 MB/s WRITE:15338 MB/s COPY:14760 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:4498 Memory Mark:1615.4 3DMark for Windows(V 2.4.4264)3times Cloud Gate:5903 Ice Storm:37679 Sky diver:3965 Fire Strike:802	Pass
7	DDR4-2400/ Kingston- CBD24D4S7S1ME-4/ Micron- 7VE75D9WFH/ 4GB*	DUT: DUT#5 M/B: KU553-BN-7100U Rev.1 (011) (BS1131510013) CPU: Intel Core i3-7100U CPU @ 2.40 Hz (SR343) Test Summary: AIDA64 Cache and Memory Benchmark(V5.95.450 0) SINGLE CHANNEL(DIMM-1) READ:15111 MB/s WRITE:14923 MB/s COPY:13070 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:3756.5 Memory Mark:1482.9 3DMark for Windows(V 2.4.4264)3times Cloud Gate:4666 Ice Storm:30197 Sky diver:3193 Fire Strike:624	Pass
8	DDR4-2400/ TLA-AD4SST4GT5WB- FQGE/ SEC-K4A4G085WE-BCRC/ 4GB*	DUT: DUT#1 M/B: KU553-EN-7600U Rev.1 (011) (BS1131610002) CPU: Intel Core i7-7600U CPU @ 2.80 Hz (SR33Z) Test Summary: AIDA64 Cache and Memory Benchmark(V5.95.450 0) SINGLE CHANNEL(DIMM-1) READ:15334 MB/s WRITE:14888 MB/s COPY:13996 MB/s Passmark PerformanceTest 9.0 Build 1023 CPU Mark:4518.9 Memory Mark:1631.9 3DMark for Windows(V 2.4.4264)3times Cloud Gate:5842 Ice Storm:37199 Sky diver:3910 Fire Strike:808	Pass