

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 PassMark BurnInTest 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 / 1.6GHz	Atom E3950 (ApolloLake/SREK9) / 12W / BGA1296	27.0°C	45.0°C	Pass
2	Intel / 1.3GHz	Atom E3930 (ApolloLake /SREKA) / 6.5W / BGA1296	26.0°C	44.0°C	Pass
3	Intel / 1.1GHz	Pentium N4200 (ApolloLake/SRGVZ) / 6W / BGA1296	26.0°C	44.0°C	Pass

1.1.1 Application Test:

No.	Software	Test Keypoint	Result
1	CPU-Z Ver.1.94.8	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 drivers 3. Run AIDA64 Cache and Memory Benchmark Ver.6.32.5600 - 1 time 4. Run PassMark Performance Test 10.0 Build1010 - 1 time 5. Run 3DMark for Windows Ver.2.15.7088 BenchMark - 3 times 6. S3(Sleep)/S4(Hibernate)/S5(Shutdown) 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	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.9.0 Pro	1. Burn-In test 24 hours.	DUT: DUT#1 DDR4: DDR4-2400/Micron-0LD77 D9WQK/8GB (On Board) O.S.: UEFI Shell	Pass

1.2.3 DDR4 Approved List:

No.	Chip	Size	Type	Chip Model No.	Result
1	Micron	8GB	DDR4-2400	0LD77 D9WQK	Pass
2	NANYA	4GB	DDR4-2133	NT6AN256T32AV	Pass
3	SEC	8GB	DDR4-2400	K4F6E3S4HM MGCJ	Pass

1.2.4 DDR4 Module Test Procedures:

No.	DDR4 Module	Test Procedures	Result
1	DDR4-2400/Micron-0LD77 D9WQK/8GB	DUT: Test Summary: DUT#1 AIDA64 Cache and Memory Benchmark(V6.32.5600) DUAL CHANNEL(DIMM-0/1/2/3) READ:12370 MB/s WRITE:16883 MB/s COPY:14465 MB/s Passmark PerformanceTest 10.0 Build 1010 CPU Mark:1731.1 Memory Mark:834 3DMark for Windows(V 2.15.7088)3times Cloud Gate:3494 Ice Storm:26566 Sky diver:2054 Fire Strike:509	Pass
2	DDR4-2133/NANYANT6AN256T32AV/ 4GB	DUT: Test Summary: DUT#3 AIDA64 Cache and Memory Benchmark(V6.32.5600) DUAL CHANNEL(DIMM-0/1/2/3) READ:8977 MB/s WRITE:8766 MB/s COPY:12533 MB/s Passmark PerformanceTest 10.0 Build 1010 CPU Mark:769.4 Memory Mark:633.8 3DMark for Windows(V 2.15.7088)3times Cloud Gate:1709 Ice Storm:12574 Sky diver:1079 Fire Strike:332	Pass
3	DDR4-2400/SEC-K4F6E3S4HM MGCJ/8GB	DUT: Test Summary: DUT#4 AIDA64 Cache and Memory Benchmark(V6.32.5600) DUAL CHANNEL(DIMM-0/1/2/3) READ:12026 MB/s WRITE:14206 MB/s COPY:14502 MB/s Passmark PerformanceTest 10.0 Build 1010 CPU Mark:1281.2 Memory Mark:655.7 3DMark for Windows(V 2.15.7088)3times Cloud Gate:2638 Ice Storm:19792 Sky diver:2165 Fire Strike:505	Pass