

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	38.0°C	Pass
2	Intel / 1.3GHz	Atom E3930 (ApolloLake/SREKA) / 6.5W / BGA1296	26.0°C	36.0°C	Pass

1.1.1 Application Test:

No.	Software	Test Keypoint	Result
1	CPU-Z Ver1.93	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.6.25.5400 - 1 time 4. Run PassMark Performance Test 10.0 Build1008 - 1 time 5. Run 3DMark for Windows Ver.2.12.6964 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 DDR3:

No.	Function	Result
1	On Board memory	Note ID35030
2	DIMM Slot	Pass

1.2.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
1	MemTest86 Ver.8.4 Pro	1. Burn-In test 24 hours.	DUT: DUT#1 DDR3: DDR3L-1866(BIOS-1600)-4096(1pc-4GB)/1930ZVG-V73CBG08168RFPK13I (On Board) DDR3: DDR3L-1600 Apacer/Micron/8GB (2Rank 75.C93DL.G000C 2ED27-D9PCP) O.S.: UEFI Shell	Pass

1.2.3 DDR3 Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	-	Pomos	4GB	DDR3L-1866	1930ZVG-V73CBG08168RFPK13I	-	Pass
2	-	SEC	2GB	DDR3L-1866	K4B4G1646E-BYMA	-	Pass
3	ADATA	Micron	8GB	DDR3L-1600	3DE77 D9Q8J	ADDS1600W8G11-BMIE	Pass
4	Kingston	Kingston	4GB	DDR3L-1600	D5128EETBPGBU	CBD16D3LS1KBG	Pass
5	Crucial	Micron	4GB	DDR3L-1600	2RM77D9PFJ	CT51264BF160B.16FMR (MT16KTF51264HZ-1G6M1)	Pass
6	ADATA	Hynix(SK)	2GB	DDR3L-1600	H5TC2G83EFR PBA	ADDS1600C2G11-BHYE	Pass
7	Kingston	Kingston	2GB	DDR3L-1600	D2516ECMDXGJD	CBD16D3LFS1KDG	Pass

1.2.4 DDR3 Test Procedures:

No.	DDR4 Module	Test Procedures	Result
1	DDR3L-1866/Pomos 1930ZVG-V73CBG08168RFPK13I / 4GB	DUT: DUT#1 Test Summary: AIDA64 Cache and Memory Benchmark(V6.25.5400) READ:10505 MB/s WRITE:10149 MB/s COPY:9021 MB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark:1733.7 Memory Mark:763.3 3DMark for Windows(V 2.12.6964)3times Cloud Gate:2447 Ice Storm:19061 Sky diver:1558 Fire Strike:356	Pass
2	DDR3L-1866/ SEC-K4B4G1646E-BYMA/ 2GB	DUT: DUT#2 Test Summary: AIDA64 Cache and Memory Benchmark(V6.25.5400) READ:10075 MB/s WRITE:9402 MB/s COPY:9584 MB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark:1046.3 Memory Mark:684.3 3DMark for Windows(V 2.12.6964)3times Cloud Gate:1510 Ice Storm:11218 Sky diver:970 Fire Strike:268	Pass
3	ADATA (ADD51600W8G11-BMIE (10281788) 1.35V/1.5V) [512Mx8b-x16/1GBx64b,CL=11-11-11] /Micron (3DE77D9Q8J) / PC3L-12800 (DDR3L-1600) / 8GB	DUT: DUT#1 Test Summary: AIDA64 Cache and Memory Benchmark(V6.25.5400) READ:13572 MB/s WRITE:16071 MB/s COPY:14720 MB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark:2249.9 Memory Mark:981 3DMark for Windows(V 2.12.6964)3times Cloud Gate:3484 Ice Storm:26445 Sky diver:2011 Fire Strike:487	Pass
4	DDR3L-1600/ Kingston- CBD16D3LS1KBG/ Kingston- D5128EETBPGBU/ 4GB	DUT: DUT#1 Test Summary: AIDA64 Cache and Memory Benchmark(V6.25.5400) READ:13401 MB/s WRITE:15851 MB/s COPY:14487 MB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark:2251.6 Memory Mark:955.3 3DMark for Windows(V 2.12.6964)3times Cloud Gate:3441 Ice Storm:26264 Sky diver:2021 Fire Strike:483	Pass
5	Crucial (CT51264BF160B.16FMR (MT16KTF51264HZ-1G6M1) 1.35V/1.5V)[256Mx8b-x16/ 512Mx64b,CL=11-11-11-30] / Micron (2RM77D9PFJ)/ PC3L-12800 (DDR3L-1600) / 4GB	DUT: DUT#1 Test Summary: AIDA64 Cache and Memory Benchmark(V6.25.5400) READ:13547 MB/s WRITE:16185 MB/s COPY:14631 MB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark:2260.4 Memory Mark:954.6 3DMark for Windows(V 2.12.6964)3times Cloud Gate:3460 Ice Storm:26358 Sky diver:2035 Fire Strike:496	Pass

6	ADATA (ADDS1600C2G11-BHYE (10281881) 1.35V/1.5V) [256Mx8b-x8/256Mx64b,CL=11-11-11] /Hynix(SK) (H5TC2G83EFR PBA) / PC3L-12800(DDR3L-1600) / 2GB	DUT: DUT#1 Test Summary: AIDA64 Cache and Memory Benchmark(V6.25.5400) READ:10714 MB/s WRITE:10220 MB/s COPY:9239 MB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark:2154.9 Memory Mark:937.9 3DMark for Windows(V 2.12.6964)3times Cloud Gate:3052 Ice Storm:23741 Sky diver:1948 Fire Strike:481	
7	DDR3L-1600/ Kingston- CBD16D3LFS1KDG/ Kingston- D2516ECMDXGJD/ 2GB	DUT: DUT#2 Test Summary: AIDA64 Cache and Memory Benchmark(V 6.25.5400) READ:11783 MB/s WRITE:9865 MB/s COPY:13974 MB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark:1064.6 Memory Mark:790.7 3DMark for Windows(V 2.12.6964)3times Cloud Gate:2043 Ice Storm:14110 Sky diver:1123 Fire Strike:331	