

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 / 2.3GHz	Xeon Gold 5218 (Cascade Lake/QRA9) / 125W / LGA3647-0	37.0°C	59.0°C	Pass
2	Intel / 2.1GHz	Xeon Silver 4208 (Cascade Lake/QPJG) / 85W / LGA3647-0	36.0°C	58.0°C	Pass
3	Intel / 1.9GHz	Xeon Bronze 3204 (Cascade Lake/QPJK) / 85W / LGA3647-0	31.5°C	54.0°C	Pass

1.1.1 Application Test:

No.	Software	Test Keypoint	Result
1	CPU-Z Ver.1.89.0	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.6.20.5300 1 time 4. Run Passmark Performance Test 9.0 Build1035 1 time 5. Run 3DMark for Windows Ver.2.11.6846 BenchMark 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	Warning beep sound when no memory install	Pass

1.2.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
1	PassMark MemTest86 V8.3 Pro	1. Running test 12 hours.	DUT: DUT#1 DDR4: DDR4-2933(ECC)/SAMSUNG-M393A2K40CB2-CVFBY/SEC-K4A8G045WC-BCVF/16GB*6/DR071-1/2/3/4/5/6 (DIMM-1/2/3/4/5/6) DUAL CHANNEL O.S.: UEFI Shell	Pass

1.2.3 DDR4 Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	SAMSUNG	SEC	16GB	DDR4-2933 (ECC)	K4A8G045WC-BCVF	M393A2K40CB2-CVFBY	Pass
2	Transcend	SEC	4GB	DDR4-2400	K4A4G085WE-BCRC	TS512MHR72V4H	Pass

1.2.4 DDR4 Module Test Procedures:

No.	DDR4 Module	Test Procedures	Result
1	DDR4-2933(ECC)/SAMSUNG-M393A2K40CB2-CVFBY/SEC-K4A8G045WC-BCVF/16GB*6	DUT: DUT#1 CPU: Intel Xeon Gold 5218 CPU @ 2.30GHz (QRA9) DIMM Slot: DIMM-1/2/3/4/6 Dual Channel Test Summary: AIDA64 Cache and Memory Benchmark(V6.20.5300) DUAL CHANNEL(DIMM-1/2/3/4/5/6) READ:110.20 MB/s WRITE:80162 MB/s COPY:93537 MB/s Passmark PerformanceTest 9.0 Build 1035 CPU Mark:17503.8 Memory Mark:2362.1 3DMark for Windows(V 2.11.6846)3times Cloud Gate:979 Ice Storm:3254 Sky diver:378 Fire Strike:117	Pass
2	DDR4-2933(ECC)/SAMSUNG-M393A2K40CB2-CVFBY/SEC-K4A8G045WC-BCVF/16GB*4	DUT: DUT#1 CPU: Intel Xeon Silver 4208 CPU @ 2.10GHz (QPJG) DIMM Slot: DIMM-1/2//4/5 Dual Channel Test Summary: AIDA64 Cache and Memory Benchmark(V6.20.5300) DUAL CHANNEL(DIMM-1/2/4/5) READ:66145 MB/s WRITE:61588 MB/s COPY:56097 MB/s Passmark PerformanceTest 9.0 Build 1035 CPU Mark:10568.4 Memory Mark:2129 3DMark for Windows(V 2.11.6846)3times Cloud Gate:583 Ice Storm:2240 Sky diver:177 Fire Strike:56	Pass
3	DDR4-2933(ECC)/SAMSUNG-M393A2K40CB2-CVFBY/SEC-K4A8G045WC-BCVF/16GB*6	DUT: DUT#1 CPU: Intel Xeon Bronze 3204 CPU @ 1.90GHz (QPJK) DIMM Slot: DIMM-1/2/3/4/6 Dual Channel Test Summary: AIDA64 Cache and Memory Benchmark(V6.20.5300) DUAL CHANNEL(DIMM-1/2/3/4/5/6) READ:50867 MB/s WRITE:58993 MB/s COPY:52918 MB/s Passmark PerformanceTest 9.0 Build 1035 CPU Mark:6603 Memory Mark:1926.3 3DMark for Windows(V 2.11.6846)3times Cloud Gate:383 Ice Storm:1449 Sky diver:104 Fire Strike:0	Pass