

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 BurnIn Test 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 / 2.40GHz	Xeon Platinum 8260 (Cascade Lake/QRC3) / 165W / LGA3647-0	53.0°C / 46.0°C	87.0°C/70.0°C	Pass
2	Intel / 2.80GHz	Xeon Gold 6242 (Cascade Lake/QRAH) / 150W / LGA3647-0	52.0°C / 49.0°C	74.0°C/82.0°C	Pass
3	Intel / 2.70GHz	Xeon Gold 6226 (Cascade Lake/QS1V) / 125W / LGA3647-0	41.0°C / 38.0°C	67.0°C/63.0°C	Pass
4	Intel / 2.20GHz	Xeon Silver 4210 (Cascade Lake/SRFBL) / 85W / LGA3647-0	44.0°C / 36.0°C	55.0°C/50.0°C	Pass

1.1.1 Application Test:

No.	Software	Test Keypoint	Result
1	CPU-Z ver.1.93.0	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.6.25.5400 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. 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	Hexa Channel Mode	Pass
3	Penta Channel Mode	Pass
4	Quad Channel Mode	Pass
5	Triple Channel Mode	Pass
6	Dual channel mode	Pass
7	Single Channel mode	Pass
8	DIMM Slot1	Pass
9	DIMM Slot2	Pass
10	DIMM Slot3	Pass
11	DIMM Slot4	Pass
12	DIMM Slot5	Pass
13	DIMM Slot6	Pass

1.2.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
1	PassMark MemTest86 V8.4 Pro	1. Running test 12 hours.	DDR4: DDR4-2933(BIOS shown 2934)-196608(12pcs-16GB)/ Samsung M393A2K40CB2-CVFBY S/SEC-910-K4A8G045WC-BCVF (ECC) (DR071-1/2/3/4/5/6/7/8/9/10/11/12) (DIMM-1/2/3/4/5/6/7/8/9/10/11/12) Hexa Channel O.S.: UEFI Shell Memtest86 V8.4	Pass

1.2.3 DDR4 Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	ATP	Samsung	32GB	PC4-25600 (DDR4-3200)	SEC-013-K4A8G045WD-BCWE	X4B32QB4BNWES0-7-DR1 (ECC-REG)	Pass
2	Samsung	Samsung	16GB	PC4-23400 (DDR4-2933)	SEC-910-K4A8G045WC-BCVF	M393A2K40CB2-CVFBY S (ECC)	Pass
3	Transcend	Samsung	4GB	PC4-19200 (DDR4-2400)	SEC-725-K4A4G085WE-BCRC	TS512MHR72V4H (REG)	Pass

1.2.4 DDR4 Module Test Procedures:

No.	DDR4 Module	Test Procedures	Result
1	ATP / DDR4-3200-32GB*12 / X4B32QB4BNWES0-7-DR1 / SEC-013-K4A8G045WD-BCWE (ECC-REG)*12	CPU: Intel Xeon Platinum 8260 2.40GHz (QRC3)*2 DIMM Slot: DIMM-1/2/3/4/5/6/7/8/9/10/11/12 Test Summary: AIDA64 Cache and Memory Benchmark (Ver.6.25.5400) HEXA CHANNEL(DIMM-1/2/3/4/5/6/7/8/9/10/11/12) READ: 252.01GB/s WRITE: 158.35GB/s COPY: 207.43GB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark: 57336.0 Memory Mark: 2755.6 3DMark for Windows (Ver.2.12.6964) 3times Cloud Gate: 1106 Ice Storm: 3497 Sky Diver: 463 Fire Strike: 138 Looping under 12hrs.: Pass S5: Pass	Pass
2	ATP / DDR4-3200-32GB*12 / X4B32QB4BNWES0-7-DR1 / SEC-013-K4A8G045WD-BCWE (ECC-REG)*12	CPU: Intel Xeon Silver 4210 2.20GHz (SRFBL)*2 DIMM Slot: DIMM-1/2/3/4/5/6/7/8/9/10/11/12 Test Summary: AIDA64 Cache and Memory Benchmark (Ver.6.25.5400) HEXA CHANNEL(DIMM-1/2/3/4/5/6/7/8/9/10/11/12) READ: 155.54GB/s WRITE: 111.64GB/s COPY: 135.16GB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark: 26122.3 Memory Mark: 2628.9 3DMark for Windows (Ver.2.12.6964) 3times Cloud Gate: 920 Ice Storm: 33227 Sky Diver: 392 Fire Strike: 111 Looping under 12hrs.: Pass S5: Pass	Pass
3	Samsung / DDR4-2933-16GB*12 / M393A2K40CB2-CVFBY S / SEC-910-K4A8G045WC-BCVF (ECC)*12	CPU: Intel Xeon Gold 6226 2.70GHz (QS1V)*2 DIMM Slot: DIMM-1/2/3/4/5/6/7/8/9/10/11/12 Test Summary: AIDA64 Cache and Memory Benchmark (Ver.6.25.5400) HEXA CHANNEL(DIMM-1/2/3/4/5/6/7/8/9/10/11/12) READ: 210.55GB/s WRITE: 130.07GB/s COPY: 156.55GB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark: 36121.5 Memory Mark: 2941.0 3DMark for Windows (Ver.2.12.6964) 3times Cloud Gate: 1064 Ice Storm: 3523 Sky Diver: 488 Fire Strike: 140 Looping under 12hrs.: Pass S5: Pass	Pass
4	DDR4-2933(ECC)/ATP-X4B08QD8BNVFME-J DR1/Micron-8TJ45 D9WSM/8GB	CPU: Intel Xeon Gold 6242 2.80GHz (QRAH)*2 DIMM Slot: DIMM-1/2/3/4/5/6/7/8/9/10/11/12 Test Summary: AIDA64 Cache and Memory Benchmark (Ver.6.25.5400) HEXA CHANNEL(DIMM-1/2/3/4/5/6/7/8/9/10/11/12) READ: 198.27GB/s WRITE: 139.86GB/s COPY: 162.05GB/s Passmark PerformanceTest 10.0 Build 1008 CPU Mark: 43616.7 Memory Mark: 2860.0 3DMark for Windows (Ver.2.12.6964) 3times Cloud Gate: 1160 Ice Storm: 3658 Sky Diver: 543 Fire Strike: 154 Looping under 12hrs.: Pass S5: Pass	Pass