

# 1. Stability Test:

## 1.1 CPU Function Test:

<b>Test Purpose</b>	Test CPU functions work normally under Windows Operating System
<b>Test Procedure</b>	1. Install Windows operating system 2. Install M/B device drivers 3. Check CPU temperature in BIOS setup menu 4. Using CPU-Z check CPU info
<b>Test Criteria</b>	It should be correct for each test step

No.	CPU	Type	Result
1	Intel / 2.00GHz	Xeon Gold 6138 (SkyLake/SR3B5) / 125W / LGA3647-0	Pass
2	Intel / 2.30GHz	Xeon Gold 5118 (SkyLake/QMXH) / 105W / LGA3647-0	Pass
3	Intel / 2.20GHz	Xeon Gold 5120T (SkyLake/QMXL) / 105W / LGA3647-0	Pass
4	Intel / 1.70GHz	Xeon Bronze 3106 (SkyLake/SR3GL) / 85W / LGA3647-0	Pass
5	Intel / 2.10GHz	Xeon Silver 4110 (SkyLake/SR3GL) / 85W / LGA3647-0	Pass

### 1.1.1 Application Test:

No.	Software	Test Keypoint	Result
1	CPU-Z Ver1.86.0	1. Check all information.	Pass

## 1.2 Memory Function Test:

<b>Test Purpose</b>	Test Memory functions work normally under Windows Operating System
<b>Test Procedure</b>	<ol style="list-style-type: none"> <li>1. Install Windows Operating System</li> <li>2. Install M/B Device Driver</li> <li>3. Run AIDA64 Cache and Memory Benchmark Ver.5.97.4600 1 time</li> <li>4. Run Passmark Performance Test 9.0 Build1029 1 time</li> <li>5. Run 3DMark for Windows Ver.2.8.6546 BenchMark 3 times</li> <li>6. S3/Hibernate Test 3 times</li> </ol>
<b>Test Criteria</b>	It should be no problem for the test

### 1.2.1 DDR4:

No.	Function	Result
1	Dual Channel mode	Pass
2	Single Channel mode	Pass
3	DDR4 DIMM Slot Examine	Pass
4	DIMM Slot1	Pass
5	DIMM Slot2	Pass
6	DIMM Slot3	Pass
7	DIMM Slot4	Pass
8	DIMM Slot5	Pass
9	DIMM Slot6	Pass

### 1.2.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
1	PassMark MemTest86 V8.1 Pro	1. Stress test 12 hours.	DDR4: DDR4-2400/Transcend-TS512MHR72V4H/SEC-K4A4G085WE-BCRC/4GB*6/DR45-11/12/13/14/15/16 (DIMM-1/2/3/4) Dual Channel O.S.: UEFI Shell Memtest86 V8.1	Pass

### 1.2.3 DDR4 Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	Transcend	SEC	4GB	DDR4-2400	K4A4G085WE-BCRC	TS512MHR72V4H	Pass

## 1.2.4 DDR4 Module Test Procedures:

No.	DDR4 Module	Test Procedures	Result
1	DDR4-2400/ Transcend-TS512MHR72V4H/SEC- K4A4G085WE-BCRC/ 4GB*6	CPU: Intel Xeon Gold 6138 2.00GHz (SR3B5) DIMM Slot: DIMM-1/2/3/4/5/6 Dual Channel Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.4600) Dual Channel(DIMM-1/2/3/4/5/6) READ:102068 MB/s WRITE:84348 MB/s COPY:89395 MB/s Passmark PerformanceTest 9.0 Build 1029 CPU Mark:25739.7 Memory Mark:2752.9 3DMark for Windows(V 2.8.6546)3times Cloud Gate:727 Ice Storm:2845 Sky diver:301 Fire Strike:83	Pass
2	DDR4-2400/Transcend- TS512MHR72V4H/SEC-K4A4G085WE-BCRC/ 4GB*3	CPU: Intel Xeon Bronze 3106 1.70GHz (SR3GL) DIMM Slot: DIMM-1/2/3 Single Channel Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.4600) SINGLE CHANNEL(DIMM-1/2/3) READ:41755 MB/s WRITE:42186 MB/s COPY:41569 MB/s Passmark PerformanceTest 9.0 Build 1029 CPU Mark:7431.1 Memory Mark:1656.4 3DMark for Windows(V 2.8.6546)3times Cloud Gate:424 Ice Storm:1647 Sky diver:121 Fire Strike:40	Pass
3	DDR4-2400/Transcend- TS512MHR72V4H/SEC-K4A4G085WE-BCRC/ 4GB*3	CPU: Intel Xeon Gold 5118 2.30GHz (QMXH) DIMM Slot: DIMM-4/5/6 Single Channel Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.4600) SINGLE CHANNEL(DIMM-4/5/6) READ:54013 MB/s WRITE:47393 MB/s COPY:47687 MB/s Passmark PerformanceTest 9.0 Build 1029 CPU Mark:14579.7 Memory Mark:2033.6 3DMark for Windows(V 2.8.6546)3times Cloud Gate:741 Ice Storm:2720 Sky diver:269 Fire Strike:78	Pass
4	DDR4-2400/Transcend- TS512MHR72V4H/SEC-K4A4G085WE-BCRC/ 4GB*4	CPU: Intel Xeon Gold 5120T 2.20GHz (QMXL) DIMM Slot: DIMM-1/2/4/5 Dual Channel Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.4600) Dual Channel(DIMM-1/2/4/5) READ:70771 MB/s WRITE:62062 MB/s COPY:62909 MB/s Passmark PerformanceTest 9.0 Build 1029 CPU Mark:15521.7 Memory Mark:2081.6 3DMark for Windows(V 2.8.6546)3times Cloud Gate:875 Ice Storm:3012 Skydiver:333 Fire Strike:97	Pass

5	DDR4-2400/Transcend-TS512MHR72V4H/SEC-K4A4G085WE-BCRC/4GB*2	CPU: Intel Xeon Silver 4110 2.10GHz (SR3GH) DIMM Slot: DIMM-3/6 Dual Channel Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.4600) Dual Channel(DIMM-3/6) READ:36902 MB/s WRITE:33429 MB/s COPY:32891 MB/s Passmark PerformanceTest 9.0 Build 1029 CPU Mark:9034.4 Memory Mark:1836.5 3DMark for Windows(V 2.8.6546)3times Cloud Gate:516 Ice Storm:1857 Sky diver:146 Fire Strike:49	Pass
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