

# 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. Run PassMark BurnInTest and check CPU Temp. 5. Using CPU-Z check CPU info
<b>Test Criteria</b>	It should be correct for each test step

No.	CPU	Type	Idle CPU Temp.	Full Loading CPU Temp.	Result
1	Intel / 1.60GHz	Intel / Atom E3950 (SR33P) / 12W	40.0°C	54.0°C	Pass
2	Intel / 1.60GHz	Intel / Atom E3940 (SR33M) / 9.5W	35.0°C	51.0°C	Pass
3	Intel / 1.30GHz	Intel / Atom E3930 (SR33Q) / 6.5W	39.0°C	44.0°C	Pass
4	Intel / 1.10GHz	Intel / Celeron N4200 (SR2Z5) / 6W	42.0°C	54.0°C	Pass
5	Intel / 1.10GHz	Intel / Celeron N3350 (SR2Z7) / 6W	42.0°C	51.0°C	Pass

### 1.1.1 Application Test:

No.	Software	Test Keypoint	Result
1	CPU-Z v1.85	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 Build1023 1 time</li> <li>5. Run 3DMark for Windows Ver.2.5.5029 BenchMark 3 times</li> </ol>
<b>Test Criteria</b>	It should be no problem for the test

### 1.2.1 DDR4:

No.	Function	Result
1	DDR4 DIMM Slot Examine	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.7.5 Pro	1. Burn-In test 24 hours.	DDR4: DDR4-2133-2048(2pcs-1GB)/Micron-MT53B256M32D1NP-062WT:C /7UC77-D9TFT Dual Channel (On Board) O.S.: DOS	Pass
2	MemTest86 Ver.7.5 Pro	1. Burn-In test 24 hours.	DDR4: DDR4-2400-4096(2pcs-2GB)/8QC77-D9TFX Dual Channel (On Board) O.S.: DOS	

### 1.2.3 DDR4 Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	-	Micron	1GB	DDR4-2133	7UC77-D9TFT	MT53B256M32D1NP	Pass
2	-	Micron	2GB	DDR4-2400	8QC77-D9TFX	MT53B256M32D1NP	Pass

## 1.2.4 DDR4 Module Test Procedures:

No.	DDR4 Module	Test Procedures	Result
1	DDR4-2133-2048(2pcs-1GB)/ Micron- MT53B256M32D1NP-062WT:C / 7UC77-D9TFT Dual Channel (On Board)	DUT: DUT#1 Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.460 0) READ:10887 MB/s WRITE:14278 MB/s COPY:11784 MB/s  Passmark PerformanceTest 8.0 Build 1054 CPU Mark:2063 Memory Mark:727  3DMark for Windows(V 2.5.5029) 3 times Cloud Gate:2983 Ice Storm Extreme:22812 Skydiver: 1781 Fire Strike:429	Pass
2	DDR4-2133-2048(2pcs-1GB)/ Micron- MT53B256M32D1NP-062WT:C / 7UC77-D9TFT Dual Channel (On Board)	DUT: DUT#2 Test Summary: AIDA64 Cache nd Memory Benchmark(V5.97.460 0) READ:10649 MB/s WRITE:14262 MB/s COPY:11486 MB/s  Passmark PerformanceTest 8.0 Build 1054 CPU Mark:1476 Memory Mark:635  3DMark for Windows(V 2.5.5029) 3 times Cloud Gate:2214 Ice Storm Extreme:14354 Skydiver: 1129 Fire Strike:322	Pass
3	DDR4-2133-2048(2pcs-1GB)/ Micron- MT53B256M32D1NP-062WT:C / 7UC77-D9TFT Dual Channel (On Board)	DUT: DUT#3 Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.460 0) READ:8629 MB/s WRITE:9859 MB/s COPY:10251 M /s  Passmark PerformanceTest 8.0 Build 1054 CPU Mark:995 Memory Mark:636  3DMark for Windows(V 2.5.5029) 3 times Cloud Gate:1684 Ice Storm Extreme:10242 Skydiver: 930 Fire Strike:281	Pass
4	DDR4-2133-2048(2pcs-1GB)/ Micron- MT53B256M32D1NP-062WT:C / 7UC77-D9TFT Dual Channel (On Board)	DUT: DUT#4 Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.460 0) READ:9889 MB/s WRITE:10449 MB/s COPY:11573 MB/s  Passmark PerformanceTest 8.0 Build 1054 CPU Mark:1150 Memory Mark:742  3DMark for Windows(V 2.5.5029) 3 times Cloud Gate:2026 Ice Storm Extreme:11942 Skydiver: 1097 Fire Strike:326	Pass
5	DDR4-2400-4096(2pcs-2GB)/ 8QC77-D9TFX Dual Channel (On Board)	DUT: DUT#5 Test Summary: AIDA64 Cache and Memory Benchmark(V5.97.460 0) READ:9716 MB/s WRITE:10173 MB/s COPY:11346 MB/s  Passmark PerformanceTest 8.0 Build 1054 CPU Mark:1215.8 Memory Mark:829.2  3DMark for Windows(V 2.5.5029) 3 times Cloud Gate:2046 Ice Storm Extreme:11761 Skydiver: 1117 Fire Strike:361	Pass