

# 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 3DMark for Windows Ver.1.2.1 BenchMark 3 times 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 (E3940 / SR33M)	35.0°C	57.0°C	Pass
2	Intel / 1.30GHz	Intel / Atom (E3930 / SR33Q)	44.0°C	51.0°C	Pass
3	Intel / 1.10GHz	Intel / Celeron (N3350 / SR2Z7)	36.0°C	60.0°C	Pass

### 1.1.1 Application Test:

No.	Software	Test Keypoint	Result
1	CPU-Z	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.5.97.4500 1 time</li> <li>4. Run Passmark Performance Test 9.0 Build1023 1 time</li> <li>5. Run 3DMark for Windows Ver.1.2.1 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	Warning beep sound when no memory install	Pass

### 1.2.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
1	MemTest86 Ver.7.5.0	1. Stress test 24 hours.	DDR4: DDR4-2133 1GB *2/7ZC77-D9TFT (MICRON) O.S.: DOS	Pass

### 1.2.3 DDR4 Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	-	Micron	2GB	DDR4-3200	7ZC77-D9TFT	-	Pass
2	-	Micron	4GB	DDR4-2400	7TE77-D9TFW	-	Pass (was:ID15288)

### 1.2.4 DDR4 Module Test Procedures:

No.	DDR4 Module	Test Procedures	Result
1	DDR4-2133-2048(2pcs-1GB)/7ZC77- D9TFT (MICRON)	Test Summary: AIDA64 Cache nd Memory Benchmark(V5.95.450 0) READ:10588 MB/s WRITE:13274 MB/s COPY:11185 M /s  Passmark PerformanceTest 9.0 Build 1023 CPU Mark:1806.6 Memory Mark:687.8  Running for 3DMark 2006 (ver.1.2.1) (3 times):35 29	Pass
2	DDR4-2133/Micron-7JC77-D9TFW/4GB (2048MB-2pcs)	M/B: ALF51-BN-23H50 Rev.2 (021) (B 1131110001) Test Summary: AIDA64 Cache nd Memory Benchmark(V5.97.460 0) READ:10360 MB/s WRITE:10489 MB/s COPY:12547 M /s  Passmark PerformanceTest 9.0 Build 1023 CPU Mark:1275 Memory Mark:889.1  3DMark for Windows(V 2.4.4264)3times Cloud Gate:2117 Ice Storm:12507 Sky diver:1123 Fire Strike:330	Pass (was:ID15288)