

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. CPU-Z check CPU info 4. Run AIDA64 Cache and Memory Benchmark Ver.5.20.34 0 1 time 5. Run Passmark Performance Test 8.0 Build1040 1 time 6. Run 3DMark for Windows Ver.1.5.884 BenchMark or 3DMark 2006 Demo Edition Build Ver.1.2.1 BenchMark - 3 times 7. S3/Hibernate Test 3 times
Test Criteria	It should be correct for each test step

No.	CPU	Type	CPU Temp.	Result
1	Intel / 1.91GHz	Atom-E3845 (BayTrail-I/D0-SR1X6) / 10W / FCBGA1170	46 °C	Pass
2	Intel / 1.46GHz	Atom-E3826 (BayTrail-I/D0-SR1X8) / 7W / FCBGA1170	45 °C	Pass
3	Intel / 2.0GHz	Celeron J1900 (Ba Trail-D/C0-SR1UT) / 10W / FCBGA1170	40 °C	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.5.00.33 0/5.20.3400 1 time 4. Run Passmark Performance Test 8.0 Build1040 1 time 5. Run 3DMark for Windows Ver.1.4.828/1.5.84 BenchMark or 3DMark 2006 Demo Edition Build Ver.1.2.1 BenchMark - 3 times 6. S3/Hibernate Test 3 times
Test Criteria	It should be no problem for the test

1.2.1 DDRIII:

No.	Function	Result
1	DDRIII DIMM Slot Examine	Pass
2	Single Channel mode	Pass

1.2.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
1	MemTest86 Ver.4.3.7	1. Stress test 24 hours.	M/B: BT551-NB-41E45 Rev.2 (021) (BSF160700002) M/B BIOS: Insyde 05/12/2015 M/B Driver: 1.0 (2014-11-17) EC FW Rev.: Demo Mar/23/2015 CPU: Intel / Atom-E3845 (BayTrail-I/D0-SR1X6) / 1.91G Hz DDR3: On Board (DDR3L-1600/4GB) SSD: Silicon Power / SP120GBSS3V6 0S25 SATA3 120GB/2.5" Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Power: FSP / FSP060-1AD101C O.S.: DOS	Pass

1.2.4 DDR3 Module Test Procedures:

No.	DDR3 Module	Test Procedures	Result
1	NANYA / NT5CC256M16CP-DI 4Gb DDR3L DRAM (256Mx16b(32Mbitx16 I/Ox8 Banks,Clock:800MHz, Data Rate:DDR3L-1600 Bb/s, 96 Ball BGA)	M/B: BT551 Rev.1 (011) (BSE450700007) M/B BIOS: Insyde 12/23/2014 EC FW Rev.: 1.0 (2014-11-17) M/B Driver: Demo Dec/09/2015 CPU: Intel / Atom-E3826 (BayTrail-I/D0-SR1X8) / 1. 46GHz DDR3: *4pcs (DDR3L-1600/2GB) SSD: Intel / SSDSC2CW060A3K5 SATA3 60GB/2.5" Display: On Board DVD-RW: Pioneer / DVR-XT11T USB2.0 Power: EDAC / EA11001F-190 O.S.: Windows 8.1 Embedded Pro 2Bit (with update 1) (English) Test Summary: Environment Temp.:24°C CPU Temp.:28°C CPU Temp. after 3DMark:38°C 1. AIDA64 Cache and Memory Benchmark Ver. 5.00.3300 READ:7108 MB/s WRITE:7290 MB/s COPY:6927 MB/s 2. Passmark Performance Test 8.0 Build 1045 CPU Mark:725 Memory Mark:535 3. 3DMark for Windows Ver.1.4.828 Cloud Gate:---- Ice Storm Extreme:8079 Skydiver:---- Fire Strike:----	Pass
		M/B: BT551-NB-41E45 Rev.2 (021) (BSF160700002) M/B BIOS: Insyde 05/12/2015 EC FW Rev.: 1.0 (2014-11-17) M/B Driver: Demo Mar/23/2015 CPU: Intel / Atom-E3845 (BayTrail-I/D0-SR1X6) / 1. 91GHz DDR3: *8pcs (DDR3L-1600/4GB) SSD: Silicon Power / SP120GBSS3V60S25 SATA3 120 GB/2.5" Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3 0 Power: FSP / FSP060-1AD101C O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: Environment Temp.:28.3°C CPU Temp.:31°C CPU Temp. after 3DMark:46°C 1. AIDA64 Cache and Memory Benchmark Ver.5 .20.3400 READ:13596 MB/s WRITE:10198 MB/s COPY:11841 MB/s 2. Passmark Performance Test 8.0 Build 1040 CPU Mark:1738 Memory Mark:771 3. 3DMark 2006 Ver.1.2.1 Score:2150	Pass
		M/B: BT553-NB-41J00 Rev.2 (021) (BSF161400005) M/B BIOS: Insyde 05/12/2015 EC FW Rev.: 1.0 (2014-11-17) M/B Driver: Demo Mar/23/2015 CPU: Intel / Celeron J1900 (BayTrail-D/C0-SR1UT) / 2.0GHz DDR3: *8pcs (DDR3L-1600/4GB) SSD HDD: Seagate / ST500DM002 SATA3 NCQ 500GB/7200RPM Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3 0 Power: FSP / FSP120-1ADE21 O.S.: Windows 8.1 Embedded Pro 4Bit (with update 1) (English) Test Summary: Environment Temp.:26.9°C CPU Temp.:40°C CPU Temp. after 3DMark:40°C 1. AIDA64 Cache and Memory Benchmark Ver.5 .20.3400 READ:13931 MB/s WRITE:10180 MB/s COPY:12092 MB/s 2. Passmark Performance Test 8.0 Build 1040 CPU Mark:1446 Memory Mark:568 3. 3DMark for Windows Ver.1.5.884 Cloud Gate:1624 Ice Storm Extreme:11645 Skydiver:618 Fire Strike:169	Pass

		M/B: BT551-NB-21E26 Rev.2 (021) (BSF160600007) M/B BIOS: Insyde 05/12/2015 EC FW Rev.: 1.0 (2014-11-17) M/B Driver: Demo Mar/23/2015 CPU: Intel / Atom-E3826 (BayTrail-I/D0-SR1X8) / 1.46GHz DDR3: *4pcs (DDR3L-1600/2GB) SSD HDD: Seagate / ST9200420AS SAT 2 NCQ 200GB/72 00RPM/2.5" Display: On Board DVD-RW: Asus / SDRW-08D2S-U/BLK/G/AS USB2.0 Power: EDAC / EA10521C-120 O.S.: Windows 7 Ultimate 32Bit (English) & SP1 Test Summary: Environment Temp.:27.7°C CPU Temp.:30°C CPU Temp. after 3DMark:45°C 1. AIDA64 Cache and Memory Benchmark Ver.5 .20.3400 READ:7153 MB/s WRITE:7434 MB/s COPY:6929 MB/s 2. Passmark Performance Test 8.0 Build 1040 CPU Mark:485.1 Memory Mark:351.1 3. 3DMark 2006 Ver.1.2.1 Score:1650	Pass
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