

1. Stability Test: Rev. 011

1.1 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.5.20.3400 1 time 4. Run Passmark Performance Test 8.0 Build1047/1048 1 time 5. Run 3DMark for Windows Ver.1.5.893/1.5.915 BenchMark 3 times 6. S3/Hibernate Test 3 times
Test Criteria	It should be no problem for the test

1.1.1 DDRIII:

No.	Function	Result
1	DDRIII DIMM Slot Examine	Pass
2	Single Channel mode	Pass
3	Dual channel mode	Pass
4	DIMM Slot1	Pass
5	DIMM Slot2	Pass

1.1.2 Application Test:

No.	Software	Test Keypoint	Test Environment	Result
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<p style="text-align: center;">1</p>	<p>MemTest86 Ver.6.0.0</p>	<p>1. Burn-In test 12 hours.</p>	<p>M/B: BW968-BSN3700 Rev.1 (011) (BSF220400015) [LVDS/VGA] & COM332-B Rev.1 (011) (BSF210800020)</p> <p>M/B BIOS: Insyde 06/17/2015</p> <p>EC FW Rev.: 1.2</p> <p>M/B Driver: Demo Jun/11/2015</p> <p>CPU: Intel / Pentium-N3700 (Braswell/C0-QJ4S) / 1.6GHz</p> <p>DDR3: ADATA (ADDS1600W8G11-BMIE (10281788) 1.35V/1.5V) [512Mx8b-x16/1GBx64b,CL=11-11-11] / Micron (3DE77D9Q8J) / PC3L-12800 (DDR3L-1600) / 8GB *1</p> <p>SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5"</p> <p>Display: On Board</p> <p>DVD-ROM: Pioneer / DVD-232DW 18X SATA</p> <p>Power: FSP / RA450 450W</p> <p>O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English)</p>	<p style="text-align: center;">Pass</p>
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1.1.3 DDR3 SO-DIMM Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	Apacer	Micron	8GB	PC3L-12800 (DDR3L-1600)	2ED27-D9PCP	75.C93DL.G000C 1.35V/1.5V [512Mx8b-x16/1024Mx64b,CL=11]	Pass
2	Crucial	Micron	8GB	PC3L-12800 (DDR3L-1600)	2RD27D9PCP	CT102464BF160B.16FDD (MT16KTF1G64HZ-1G6D1) 1.35/1.5V [512Mx8b-x16/1024Mx64b,CL=11-11-11-30]	Pass
3	ADATA	Micron	8GB	PC3L-12800 (DDR3L-1600)	3KE77D9QBJ	ADDS1600W8G11-BMIE 1.35V/1.5V [512Mx8b-x16/1GBx64b,CL=11-11-11]	Pass
4	INNODISK	Micron	4GB	PC3L-12800 (DDR3L-1600)	1XM77-D9PFJ	M3SP-4GMJDL0C-M 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
5	Apacer	Micron	4GB	PC3L-12800 (DDR3L-1600)	2DM77-D9PFJ	75.B83DL.G000C 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
6	Crucial	Micron	4GB	PC3L-12800 (DDR3L-1600)	2RM77D9PFJ	CT51264BF160B.16FMR (MT16KTF51264HZ-1G6M1) 1.35V/1.35V [256Mx8b-x16/512Mx64b,CL=11-11-11-30]	Pass
7	ADATA	Micron	4GB	PC3L-12800 (DDR3L-1600)	3DE77D9Q8J	ADDS1600W4G11-BMIE (10281820) 1.35V/1.5V [512Mx8b-x8/512Mx64b,CL=11-11-11]	Pass
8	ADATA	Hynix(SK)	2GB	PC3L-12800 (DDR3L-1600)	H5TC2G83EFR PBA	ADDS1600C2G11-BHYE (10281881) 1.35V/1.5V [256Mx8b-x8/256Mx64b,CL=11-11-11]	Pass

1.1.4 DDR3 SO-DIMM Test Procedures:

No.	DDR3 Module	Test Environment	Result
1	Apacer (75.C93DL.G000C 1.35V/1.5V) [512Mx8b-x16/1024Mx64b,CL=11] / Micron (2ED27-D9PCP) / PC3L-12800 (DDR3L-1600) / 8GB *1	M/B: BW968-BSN3150 Rev.1 (011) (BSF220400005) [LVDS/VGA] & COM332-B Rev.1 (011) (BSF210800019) M/B BIOS: Insyde 06/17/2015 EC FW Rev.: 1.2 M/B Driver: Demo Jun/11/2015 CPU: Intel / Celeron N3150 (Braswell/C0-QJ4T) / 1.6GHz DDR3: DIMM-1 (Single channel) SATA HDD: Hitachi / HDP725025GLA380 SATA2 NCQ 250GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:28.2°C 1.AIDA64 Cache and Memory Benchmark Ver.5.20.3400 READ:7305 MB/s WRITE:8730 MB/s COPY:7609 MB/s 2.PassMark Performance Test 8.0 Build1047 CPU Mark:1630 Memory Mark:653 3.3DMark for Windows Ver.1.5.893 Cloud Gate:1843 Ice Storm:14260 Sky Diver:893 Strike Test:196	Pass

<p>2</p>	<p>Crucial (CT102464BF160B.16FDD (MT16KTF1G64HZ-1G6D1) 1.35V/1.5V) [512Mx8b-x16/1024Mx64b,CL=11-11-11-30] / Micron (2RD27D9PCP) / PC3L-12800 (DDR3L-1600) / 8GB *1</p>	<p>M/B: BW968-BSN3050 Rev.1 (011) (BSF220600021) [eDP/DDI] & COM332-B Rev.1 (011) (BSF210800006) M/B BIOS: Insyde 06/17/2015 EC FW Rev.: 1.2 M/B Driver: Demo Jun/11/2015 CPU: Intel / Celeron N3050 (Braswell/C0-SR2A9) / 1.6GHz DDR3: DIMM-1 (Single channel) SATA HDD: Seagate / ST500DM002 SATA3 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Lite-On / IT iHDS118-07 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:27.1℃ 1.AIDA64 Cache and Memory Benchmark Ver.5.20.3400 READ:6124 MB/s WRITE:7357 MB/s COPY:7052 MB/s 2.PassMark Performance Test 8.0 Build1047 CPU Mark:866 Memory Mark:596 3.3DMark for Windows Ver.1.5.893 Cloud Gate:1405 Ice Storm:12313 Sky Diver:952 Strike Test:195</p>	<p>Pass</p>
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No.	DDR3 Module	Test Environment	Result
3	ADATA (ADDS1600W8G11-BMIE 1.35V/1.5V) [512Mx8b-x16/1GBx64b,CL=11-11-11] / Micron (3KE77D9QBJ) / PC3L-12800 (DDR3L-1600) / 8GB *1	M/B: BW968-BSN3700 Rev.1 (011) (BSF220400015) [LVDS/VGA] & COM332-B Rev.1 (011) (BSF210800020) M/B BIOS: Insyde 06/17/2015 EC FW Rev.: 1.2 M/B Driver: Demo Jun/11/2015 CPU: Intel / Pentium-N3700 (Braswell/C0-QJ4S) / 1.6GHz DDR3: DIMM-1 (Single channel) SSD: Intel / SSDSC2BW120A401 SATA3 120GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-232DW 18X SATA Power: FSP / RA450 450W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:28.7°C CPU Temp.:42°C CPU Temp. after 3DMark:42°C 1.AIDA64 Cache and Memory Benchmark Ver.5.20.3400 READ:7288 MB/s WRITE:8718 MB/s COPY:7653 MB/s 2.PassMark Performance Test 8.0 Build1047 CPU Mark:1772 Memory Mark:691 3.3DMark for Windows Ver.1.5.893 Cloud Gate:1925 Ice Storm:15140 Sky Diver:938 Strike Test:198	Pass



4	<p>INNODISK (M3SP-4GMJDL0C-M 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=9] / Micron (1XM77-D9PFJ) / PC3L-12800 (DDR3L-1600) / 4GB *2</p>	<p>M/B: BW968-BSN3050 Rev.1 (011) (BSF220600021) [eDP/DDI] & COM332-B Rev.1 (011) (BSF210800006)</p> <p>M/B BIOS: Insyde 06/17/2015</p> <p>EC FW Rev.: 1.2</p> <p>M/B Driver: Demo Jun/11/2015</p> <p>CPU: Intel / Celeron N3050 (Braswell/C0-SR2A9) / 1.6GHz</p> <p>DDR3: DIMM-1/2 (Dual channel)</p> <p>SATA HDD: Seagate / ST500DM002 SATA3 NCQ 500GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-ROM: Lite-On / IT iHDS118-07 18X SATA</p> <p>Power: Delta / GPS-500BB 500W</p> <p>O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English)</p> <p>Test Summary: Environment Temp.:28.1℃</p> <p>1.AIDA64 Cache and Memory Benchmark Ver.5.20.3400</p> <p style="padding-left: 20px;">READ:7073 MB/s</p> <p style="padding-left: 20px;">WRITE:8160 MB/s</p> <p style="padding-left: 20px;">COPY:9110 MB/s</p> <p>2.PassMark Performance Test 8.0 Build1047</p> <p style="padding-left: 20px;">CPU Mark:869</p> <p style="padding-left: 20px;">Memory Mark:629</p> <p>3.3DMark for Windows Ver.1.5.893</p> <p style="padding-left: 20px;">Cloud Gate:1555</p> <p style="padding-left: 20px;">Ice Storm:13094</p> <p style="padding-left: 20px;">Sky Diver:1048</p> <p style="padding-left: 20px;">Strike Test:243</p>	Pass
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No.	DDR3 Module	Test Environment	Result
5	Apacer (75.B83DL.G000C 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Micron (2DM77-D9PFJ) / PC3L-12800 (DDR3L-1600) / 4GB *2	M/B: BW968-BSN3050 Rev.1 (011) (BSF220600021) [eDP/DDI] & COM332-B Rev.1 (011) (BSF210800006) M/B BIOS: Insyde 06/17/2015 EC FW Rev.: 1.2 M/B Driver: Demo Jun/11/2015 CPU: Intel / Celeron N3050 (Braswell/C0-SR2A9) / 1.6GHz DDR3: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST500DM002 SATA3 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Lite-On / It iHDS118-07 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:28.1℃ 1.AIDA64 Cache and Memory Benchmark Ver.5.20.3400 READ:7064 MB/s WRITE:8125 MB/s COPY:9139 MB/s 2.PassMark Performance Test 8.0 Build1047 CPU Mark:871 Memory Mark:618 3.3DMark for Windows Ver.1.5.893 Cloud Gate:1572 Ice Storm:13052 Sky Diver:1043 Strike Test:242	Pass

6	<p>Crucial (CT51264BF160B.16FMR (MT16KTF51264HZ-1G6M1) 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=11-11-11-30] / Micron (2RM77D9PFJ) / PC3L-12800 (DDR3L-1600) / 4GB *2</p>	<p>M/B: BW968-BSN3000 Rev.1 (011) (BSF220600002) [eDP/DDI] & COM332-B Rev.1 (011) (BSF210800012) M/B BIOS: Insyde 06/17/2015 EC FW Rev.: 1.2 M/B Driver: Demo Jun/11/2015 CPU: Intel / Celeron N3000 (Braswell/C0-QJ4W) / 1.04GHz DDR3: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST500DM002 SATA3 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A9T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:30.0°C 1.AIDA64 Cache and Memory Benchmark Ver.5.20.3400 READ:7098 MB/s WRITE:8061 MB/s COPY:9147 MB/s 2.PassMark Performance Test 8.0 Build1047 CPU Mark:840 Memory Mark:619 3.3DMark for Windows Ver.1.5.893 Cloud Gate:1569 Ice Storm:13326 Sky Diver:1059 Strike Test:242</p>	Pass
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No.	DDR3 Module	Test Environment	Result
7	ADATA (ADDS1600W4G11-BMIE (10281820) 1.35V/1.5V) [512Mx8b-x8/512Mx64b,CL=11-11-11] / Micron (3DE77D9Q8J) / PC3L-12800 (DDR3L-1600) / 4GB *2	M/B: BW968-BSN3000 Rev.1 (011) (BSF220600011) [eDP/DDI] & COM332-B Rev.1 (011) (BSF210800015) M/B BIOS: Insyde 07/13/2015 EC FW Rev.: 1.0.3 M/B Driver: Demo Jul/01/2015 CPU: Intel / Celeron N3000 (Braswell/C0-QJ4W) / 1.04GHz DDR3: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST9200420AS SATA2 NCQ 200GB/7200RPM/2.5" Display: On Board DVD-RW: Lite-On / It iHAS324-07 SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:27.6°C CPU Temp.:26°C CPU Temp. after 3DMark:27°C 1.AIDA64 Cache and Memory Benchmark Ver.5.20.3400 READ:6788 MB/s WRITE:8000 MB/s COPY:8648 MB/s 2.Passmark Performance Test 8.0 Build1048 CPU Mark:840 Memory Mark:599 3.3DMark for Windows Ver.1.5.915 Cloud Gate:1516 Ice Storm Extreme:10164 Skydiver:1034 Fire Strike:229	Pass

8	<p>ADATA (ADDS1600C2G11-BHYE (10281881) 1.35V/1.5V) [256Mx8b-x8/256Mx64b,CL=11-11-11] / Hynix(SK) (H5TC2G83EFR PBA) / PC3L-12800(DDR3L-1600) / 2GB *2</p>	<p>M/B: BW968-BSN3050 Rev.1 (011) (BSF220600021) [eDP/DDI] & COM332-B Rev.1 (011) (BSF210800006) M/B BIOS: Insyde 06/17/2015 EC FW Rev.: 1.2 M/B Driver: Demo Jun/11/2015 CPU: Intel / Celeron N3050 (Braswell/C0-SR2A9) / 1.6GHz DDR3: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST500DM002 SATA3 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Lite-On / IT iHDS118-07 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8.1 Embedded Pro 64Bit (with update 1) (English) Test Summary: Environment Temp.:27.1℃ 1.AIDA64 Cache and Memory Benchmark Ver.5.20.3400 READ:6943 MB/s WRITE:8070MB/s COPY:8764 MB/s 2.PassMark Performance Test 8.0 Build1047 CPU Mark:853 Memory Mark:570 3.3DMark for Windows Ver.1.5.893 Cloud Gate:1563 Ice Storm:13075 Sky Diver:1044 Strike Test:236</p>	Pass
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