

# 1. Stability Test: Rev.011

## 1.1 CPU Test:

**Procedure:**

- (1) Install O.S.
- (2) Check CPU information & specification with CPU-Z.
- (3) Run 3DMark11 Demo Edition Ver.1.0.5 BenchMark - 3 times.
- (4) Run Passmark Performance Test 8.0 Build1027 - 1 time.
- (5) Run AIDA64 Cache and Memory Benchmark Ver.4.00.2700 - 1 time.
- (6) Check CPU temperature in the BIOS after running 3DMark.
- (7) Run S3/S4/S5 - 3 times.

No.	CPU	Type	CPU Temp.	Result
1	Intel / 1.6GHz	Core i5-4402E (Haswell) / 25W / FCBGA1364	35 °C	Pass
2	Intel / 2.7GHz	Core i5-4400E (Haswell) / 37W / FCBGA1364	40 °C	Pass
3	Intel / 2.4GHz	Core i3-4100E (Haswell) / 37W / FCBGA1364	32 °C	Pass

## 1.2 DDR3 SO-DIMM Test:

**Procedure:**

- (1) Install O.S.
- (2) Check Memory information & specification with CPU-Z.
- (3) Run 3DMark11 Demo Edition Ver.1.0.5 BenchMark - 3 times.
- (4) Run Passmark Performance Test 8.0 Build1027 - 1 time.
- (5) Run AIDA64 Cache and Memory Benchmark Ver.4.00.2700 - 1 time.
- (6) Run S3/S4/S5 - 3 times.

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	ADATA	Micron	8GB	PC3L-12800 (DDR3L-1600)/ECC	3KEI7-D9QBJ	ADDB1600W8G11-BMIE 1.35V [512Mx8b-x18/1024Mx72b,CL=11]	Pass
2	ADATA	Micron	4GB	PC3L-12800 (DDR3L-1600)/ECC	3KEI7-D9QBJ	ADDB1600W4G11-BMIE 1.35V [512Mx8b-x9/512Mx72b,CL=11]	Pass
3	ADATA	Micron	2GB	PC3L-12800 (DDR3L-1600)/ECC	3NK77-D9PSH	ADDB1600W2G11-BMIE 1.35V [256Mx8b-x9/256Mx72b,CL=11]	Pass



### 1.3 DDR3 SO-DIMM Test Procedures:

**Procedure:**

- (1) Install O.S.**
- (2) Check Memory information & specification with CPU-Z.**
- (3) Run 3DMark11 Demo Edition Ver.1.0.5 BenchMark - 3 times.**
- (4) Run Passmark Performance Test 8.0 Build1027 - 1 time.**
- (5) Run AIDA64 Cache and Memory Benchmark Ver.4.00.2700 - 1 time.**
- (6) Run S3/S4/S5 - 3 times.**

No.	DDR3 Module	Test Environment	Result
<b>1</b>	ADATA (ADDB1600W8G11-BMIE 1.35V) [512Mx8b-x18/1024Mx72b,CL=11] / Micron (3KEI7-D9QBJ) / PC3L-12800(DDR3L-1600)/ECC / 8GB*2	M/B: HM961-HM86BS0-4700EQ Rev.1 (011) (BSD490600001) & COM331-B Rev.A (0A2) (BMC150100042) M/B BIOS: AMI-Aptio 12/10/2013 EC FW Rev.: 1.5 (2013.10.03) M/B Driver: Demo Dec/19/2013 CPU: Intel / Core i7-4700EQ (Haswell) / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Intel / SSDSC2CW060A3K5 SATA3 60GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: 1.3DMark11 Score:P923 2.Passmark Performance Test Memory Mark:2223 3.AIDA64 Cache and Memory Benchmark: READ:23886MB/s WRITE:25016MB/s COPY:23283MB/s	<b>Pass</b>

<p style="text-align: center;"><b>2</b></p>	<p>ADATA (ADDB1600W4G11-BMIE 1.35V) [512Mx8b-x9/512Mx72b,CL=11] / Micron (3KEI7-D9QBJ) / PC3L-12800(DDR3L-1600)/ECC / 4GB*2</p>	<p>M/B: HM961-QM87BS0-4402E Rev.1 (011) (BSD490900001) &amp; COM331-B Rev.A (0A2) (BMC150100033)</p> <p>M/B BIOS: AMI-Aptio 12/10/2013</p> <p>EC FW Rev.: 1.5 (2013.10.03)</p> <p>M/B Driver: Demo Dec/19/2013</p> <p>CPU: Intel / Core i5-4402E (Haswell) / 1.6GHz</p> <p>DIMM Slot: DIMM-1/2 (Dual channel)</p> <p>SSD: Intel / SSDSC2CW060A3K5 SATA3 60GB/2.5"</p> <p>Display: On Board</p> <p>DVD-ROM: Pioneer / DVD-230DW 18X SATA</p> <p>Power: Jagier / KY-580ATX 480W</p> <p>O.S.: Windows 8 Enterprise 64Bit (English)</p> <p>Test Summary: 1.3DMark11 Score:P714</p> <p>2.Passmark Performance Test Memory Mark:1410</p> <p>3.AIDA64 Cache and Memory Benchmark:</p> <p>READ:17037MB/s</p> <p>WRITE:18563MB/s</p> <p>COPY:18177MB/s</p>	<p style="text-align: center;"><b>Pass</b></p>
<p style="text-align: center;"><b>3</b></p>	<p>ADATA (ADDB1600W2G11-BMIE 1.35V) [256Mx8b-x9/256Mx72b ,L=11] / Micron (3NK77-D9PSH) / PC3L-12800(DDR3L-1600)/ECC / 2GB*2</p>	<p>M/B: HM961-QM87BS0-4100E Rev.1 (011) (BSD491100002) &amp; COM331-B Rev.A (0A2) (BMC150100014)</p> <p>M/B BIOS: AMI-Aptio 12/10/2013</p> <p>EC FW Rev.: 1.5 (2013.10.03)</p> <p>M/B Driver: Demo Dec/19/2013</p> <p>CPU: Intel / Core i3-4100E (Haswell) / 2.4GHz</p> <p>DIMM Slot: DIMM-1/2 (Dual channel)</p> <p>SSD: Intel / SSDSC2CW060A3K5 SATA3 60GB/2.5"</p> <p>Display: On Board</p> <p>DVD-ROM: Pioneer / DVD-230DW 18X SATA</p> <p>Power: Jagier / KY-580ATX 480W</p> <p>O.S.: Windows 7 Ultimate 32Bit (English) &amp; SP1</p> <p>Test Summary: 1.3DMark11 Score:P710</p> <p>2.Passmark Performance Test Memory Mark:1702</p> <p>3.AIDA64 Cache and Memory Benchmark:</p> <p>READ:19815MB/s</p> <p>WRITE:22942MB/s</p> <p>COPY:19798MB/s</p>	<p style="text-align: center;"><b>Pass</b></p>

