

# 1. Stability Test: Rev.021/0A2

## 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) Check CPU temperature in the BIOS after running 3DMark.
- (5) Run S3/S4/S5 - 3 times.

No.	CPU	Type	CPU Temp.	Result
1	Intel / 3.5GHz	Core i7-4770K (Haswell/C0-SR147) / 84W / LGA1150	38 °C	Pass
2	Intel / 3.1GHz	Core i7-4770S (Haswell/C0-SR14H) / 65W / LGA1150	35 °C	Pass
3	Intel / 3.1GHz	Core i7-4770S (Haswell/H3-QE73) / 65W / LGA1150	48 °C	Pass
4	Intel / 2.3GHz	Core i7-4770TE (Haswell/C0-SR183) / 45W / LGA1150	36 °C	Pass
5	Intel / 2.7GHz	Core i5-4570TE (Haswell/C0-SR17Z) / 35W / LGA1150	30 °C	Pass
6	Intel / 2.7GHz	Core i5-4570TE (Haswell/C0-QEEH) / 35W / LGA1150	33 °C	Pass
7	Intel / 2.9GHz	Core i5-4570S (Haswell/H3-QE74) / 65W / LGA1150	51 °C	Pass

## 1.2 DDR3 Memory Approved List:

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	ACPIgroup	Hynix(SK)	8GB	PC3-12800 (DDR3L-1600)	H5TC4G83AFR PBA	CMA5-4GA01AAL01A00 1.35V/1.5V [512Mx8b-x16/1Gx64b,CL=9]	Pass
2	Apacer	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	78.B1GE3.AF10C 1.5V [256Mx8b-x16/512Mx64b,CL=11 ]	Pass
3	Apacer	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TC2G83EFR PBA	75.B83DE.G030C 1.5V [256Mx8b-x16/512Mx64b,CL=11 ]	Pass
4	Apacer	MICron	4GB	PC3-12800 (DDR3L-1600)	2DM77-D9PFJ	75.B83DK.G000C 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=11 ]	Pass
5	Apacer	Hynix	2GB	PC3-12800 (DDR3-1600)	H5TC2G83EFR PBA	75.A83DE.G020C 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass
6	ACPIgroup	Hynix	2GB	PC3-12800 (DDR3-1600)	H5TQ2G83EFR PBC	CMA4-4E801AAR01E00 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass

<b>7</b>	INNODISK	MICron	2GB	PC3-12800 (DDR3L-1600)	1WM77-D9PFJ	M3UP-2GMJBL0C-M 1.35V/1.5V [256Mx8b-x8/256Mx64b,CL=9]	<b>Pass</b>
<b>8</b>	ACPIgroup	Hynix(SK)	2GB	PC3-12800 (DDR3L-1600)	H5TC2G83EFR PBA	CMA5-4E801AAL01E00 1.35V/1.5V [256Mx8b-x8/256Mx64b,CL=9]	<b>Pass</b>
<b>9</b>	Transcend	MICron	8GB	PC3-10600 (DDR3-1333)	1ZD27-D9PBC/2CD27-DP9BC	TS1GLK64V3H 1.5V [512Mx8b-x16/1Gx64b,CL=9]	<b>Pass</b>

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
<b>10</b>	Transcend	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TQ2G83CFR PBC	TS512MLK64V3N 1.5V [256Mx8b-x16/512Mx64b,CL=9]	<b>Pass</b>
<b>11</b>	Apacer	ELPIDA	4GB	PC3-10600 (DDR3L-1333)	J2108ECSE-DJ-F	78.B1GEG.4210C 1.35V [256Mx8b-x16/512Mx64b,CL=9]	<b>Pass</b>
<b>12</b>	Transcend	SEC	2GB	PC3-10600 (DDR3-1333)	K4B1G0846D	TS256MLK64V3U 1.5V [128Mx8b/256Mx64b,CL=7]	<b>Pass</b>
<b>13</b>	ADATA	ADATA	2GB	PC3-10600 (DDR3-1333)	AD30908C8D-151G	AD31333002GOU(AD63I1B16) 1.5V±0.75 [2GX16,CL=9]	<b>Pass</b>
<b>14</b>	Elixir	Elixir	2GB	PC3-10600 (DDR3-1333)	M2Y2G64CB8HA9N-CG 1.5V	M2Y2G64CB8HA9N-CG 1.5V [256Mx64b,CL=9-9-9-25]	<b>Pass</b>
<b>15</b>	INNODISK	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ1G83BFR H9C	M3UN-2GHFAC09-B 1.5V [128Mx8b/256Mx64b]	<b>Pass</b>
<b>16</b>	DSL	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	D3UH56081XH15AA 1.5V [256Mx8b-x8/256Mx64b,CL=9]	<b>Pass</b>
<b>17</b>	Crucial	MICron	2GB	PC3-10600 (DDR3-1333)	MT8JTF25664AZ-1G4D1	CT25664BA1339.8FD 1.5V [256Mx8b-x8/256Mx64b,CL=9]	<b>Pass</b>
<b>18</b>	Kingston	ELPIDA	1GB	PC3-10600 (DDR3-1333)	J1108BABG-DJ-E	KVR1333D3N9/1G 1.5V	<b>Pass</b>
<b>19</b>	ACPIgroup	Hynix	1GB	PC3-10600 (DDR3-1333)	H5TQ1G83DFR H9C	CMA4-3D501AAR01D001.5V [128Mx8b-x8/128Mx64b,CL=9]	<b>Pass</b>
<b>20</b>	INNODISK	Hynix	2GB	PC3-8500 (DDR3-1066)	H5TQ1G83BFR H9C	M3UN-2GHFACM7-B 1.5V [128Mx8b/256Mx64b]	<b>Pass</b>
<b>21</b>	Hynix	Hynix	2GB	PC3-8500 (DDR3-1066)	H5TQ2G83BFR-G7C	HMT325U6BFR8C-G7 1.5V [256Mx8b-8/256Mx64b,CL=7]	<b>Pass</b>
<b>22</b>	ADATA	ELPIDA	1GB	PC3-8500 (DDR3-1066)	J1108BABG-DJ-E	SU3U1066B1G7-B 1.5V [1Gx8,CL=7]	<b>Pass</b>



### 1.3 DDR3 Module 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 S3/S4/S5 - 3 times.**

No.	DDR3 Module	Test Environment	3DMark Score	Result
<b>1</b>	ACPIgroup (CMA5-4GA01AAL01A00 1.35V/1.5V) [512Mx8b-x16/1Gx64b,CL=9] / Hynix(SK) (H5TC4G83AFR PBA) / PC3-12800 (DDR3L-1600) / 8GB *4	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2/3/4 (Dual channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	<b>P1086</b>	<b>Pass</b>



No.	DDR3 Module	Test Environment	3DMark Score	Result
2	Apacer (78.B1GE3.AF10C 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Hynix (H5TQ2G83BFR PBC) / PC3-12800 (DDR3-1600) / 4GB *3	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core DIMM Slot: DIMM-1/2/3 (Dual channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 64Bit (English)	P763	Pass
3	Apacer (75.B83DE.G030C 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Hynix (H5TC2G83EFR PBA) / PC3-12800 (DDR3-1600) / 4GB *1	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-4 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P1084	Pass
4	Apacer (75.B83DK.G000C 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=11] / MICron (2DM77-D9PFJ) / PC3-12800 (DDR3L-1600) / 4GB *1	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 64Bit (English)	P1034	Pass



<p><b>5</b></p>	<p>Apacer (75.A83DE.G020C 1.5V) [256Mx8b-x8/256Mx64b,CL=11] / Hynix (H5TC2G83EFR PBA) / PC3-12800 (DDR3-1600) / 2GB *1</p>	<p>M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-3 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 32Bit (English) Test Summary: Overnight looping under 11 hours</p>	<p><b>P1052</b></p>	<p><b>Pass</b></p>
<p><b>6</b></p>	<p>ACPIgroup (CMA4-4E801AAR01E00 1.5V) [256Mx8b-x8/256Mx64b,CL=11] / Hynix (H5TQ2G83EFR PBC) / PC3-12800 (DDR3-1600) / 2GB *1</p>	<p>M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 32Bit (English)</p>	<p><b>P1046</b></p>	<p><b>Pass</b></p>
<p><b>7</b></p>	<p>INNODISK (M3UP-2GMJBL0C-M 1.35V/1.5V) [256Mx8b-x8/256Mx64b,CL=9] / MICron (1WM77-D9PFJ) / PC3-12800 (DDR3L-1600) / 2GB *1</p>	<p>M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-3 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) &amp; SP1</p>	<p><b>P1050</b></p>	<p><b>Pass</b></p>



No.	DDR3 Module	Test Environment	3DMark Score	Result
8	ACPIgroup (CMA5-4E801AAL01E00 1.35V/1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Hynix(SK) (H5TC2G83EFR PBA) / PC3L-12800(DDR3L-1600) / 2GB*1	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-3 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1048	Pass
9	Transcend (TS1GLK64V3H 1.5V) [512Mx8b-x16/1Gx64b,CL=9] / MICron (1ZD27-D9PBC/2CD27-DP9BC) / PC3-10600 (DDR3-1333) / 8GB *2	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770K (Haswell/C0-SR147) / 3.5GHz DIMM Slot: DIMM-1/2 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: Overnight looping under 11 hours	P1262	Pass
10	Transcend (TS512MLK64V3N 1.5V) [256Mx8b-x16/512Mx64b,CL=9] / Hynix (H5TQ2G83CFR PBC) / PC3-10600 (DDR3-1333) / 4GB *1	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i5-4570TE (Haswell/C0-SR17Z) / 2.7GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: Overnight looping under 11 hours	P758	Pass

<p><b>11</b></p>	<p>Apacer (78.B1GEG.4210C 1.35V) [256Mx8b-x16/512Mx64b,CL=9] / ELPIDA (J2108ECSE-DJ-F) / PC3-10600 (DDR3L-1333) / 4GB *1</p>	<p>M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) &amp; SP1</p>	<p><b>P1051</b></p>	<p><b>Pass</b></p>
<p><b>12</b></p>	<p>Transcend (TS256MLK64V3U 1.5V) [128Mx8b/256Mx64b,CL=7] / SEC (K4B1G0846D) / PC3-10600 (DDR3-1333) / 2GB *1</p>	<p>M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) &amp; SP1</p>	<p><b>P1043</b></p>	<p><b>Pass</b></p>
<p><b>13</b></p>	<p>ADATA (AD31333002GOU(AD63I1B16) 1.5V±0.75) [2GX16,CL=9] / ADATA (AD30908C8D-151G) / PC3-10600 (DDR3-1333) / 2GB *2</p>	<p>M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-2/3 (Dual channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) &amp; SP1</p>	<p><b>P1099</b></p>	<p><b>Pass</b></p>



No.	DDR3 Module	Test Environment	3DMark Score	Result
14	Elixir (M2Y2G64CB8HA9N-CG 1.5V) [256Mx64b,CL=9-9-9-25] / Elixir (M2Y2G64CB8HA9N-CG 1.5V) / PC3-10600 (DDR3-1333) / 2GB *4	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2/3/4 (Dual channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P1082	Pass
15	INNODISK (M3UN-2GHFAC09-B 1.5V) [128Mx8b/256Mx64b] / Hynix (H5TQ1G83BFR H9C) / PC3-10600 (DDR3-1333) / 2GB *2	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-2/3 (Dual channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 32Bit (English)	P1095	Pass
16	DSL (D3UH56081XH15AA 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 2GB *4	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/2/3/4 (Dual channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1102	Pass



<p><b>17</b></p>	<p>Crucial (CT25664BA1339.8FD 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / MICron (MT8JTF25664AZ-1G4D1) / PC3-10600 (DDR3-1333) / 2GB *4</p>	<p>M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011)  M/B BIOS: AMI-Aptio 08/06/2013  M/B Driver: Demo Aug/06/2013  CPU: Intel / Core i5-4570S (Haswell/H3-QE74) / 2.9GHz  DIMM Slot: DIMM-1/2/3/4 (Dual channel)  SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM  Display: On Board  DVD-RW: Lite-On / iHAS324-U32D SATA  Power: Delta / GPS-500BB 500W  O.S.: Windows 7 Ultimate 64Bit (English) &amp; SP1</p>	<p><b>P1318</b></p>	<p><b>Pass</b></p>
<p><b>18</b></p>	<p>Kingston (KVR1333D3N9/1G 1.5V) / ELPIDA (J1108BABG-DJ-E) / PC3-10600 (DDR3-1333) / 1GB *4</p>	<p>M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C2)(BSD250200008)  M/B BIOS: AMI-Aptio 08/06/2013  M/B Driver: Demo Aug/06/2013  CPU: Intel / Core i7-4770S (Haswell/H3-QE73) / 3.1GHz  DIMM Slot: DIMM-1/2/3/4 (Dual channel)  SSD: Intel / SSDSC2CW120A3K5 SATA3 120GB/2.5"  Display: On Board  DVD-RW: Lite-On / iHAS324-U32D SATA  Power: Delta / GPS-500BB 500W  O.S.: Windows 7 Ultimate 32Bit (English) &amp; SP1  Test  Summary: Overnight looping under 10 hours</p>	<p><b>P1387</b></p>	<p><b>Pass</b></p>
<p><b>19</b></p>	<p>ACPIgroup (CMA4-3D501AAR01D001.5V) [128Mx8b-x8/128Mx64b,CL=9] / Hynix (H5TQ1G83DFR H9C) / PC3-10600(DDR3-1333) / 1GB*4</p>	<p>M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011)  M/B BIOS: AMI-Aptio 08/06/2013  M/B Driver: Demo Aug/06/2013  CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz  DIMM Slot: DIMM-1/2/3/4 (Dual channel)  SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM  Display: On Board  DVD-RW: Lite-On / iHAS324-U32D SATA  Power: Delta / GPS-500BB 500W  O.S.: Windows 8 Enterprise 32Bit (English)</p>	<p><b>P1090</b></p>	<p><b>Pass</b></p>



No.	DDR3 Module	Test Environment	3DMark Score	Result
20	INNODISK (M3UN-2GHFACM7-B 1.5V) [128Mx8b/256Mx64b] / Hynix (H5TQ1G83BFR H9C) / PC3-8500 (DDR3-1066) / 2GB *1	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-4 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 32Bit (English)	P995	Pass
21	Hynix (HMT325U6BFR8C-G7 1.5V) [256Mx8b-8/256Mx64b,CL=7] / Hynix (H5TQ2G83BFR-G7C) / PC3-8500 (DDR3-1066) / 2GB *2	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-3/4 (Single channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P997	Pass
22	ADATA (SU3U1066B1G7-B 1.5V) [1Gx8,CL=7] / ELPIDA (J1108BABG-DJ-E) / PC3-8500 (DDR3-1066) / 1GB *2	M/B: HD631-Q87CRM Rev.2 (021) (PCH R.C1)(BSD250200011) M/B BIOS: AMI-Aptio 08/06/2013 M/B Driver: Demo Aug/06/2013 CPU: Intel / Core i7-4770TE (Haswell/C0-SR183) / 2.3GHz DIMM Slot: DIMM-1/4 (Dual channel) SATA HDD: Seagate / ST3750640SV SATA2 NCQ 750GB/7200RPM Display: On Board DVD-RW: Lite-On / iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1093	Pass