

1. Stability Test: Rev.021

1.1 DDR3 SO-DIMM Test:

Procedure:

- (1) Install O.S.
- (2) Check Memory information & specification with CPU-Z.
- (3) Run 3DMark 2006 Professional Edition Build Ver.1.2.0BenchMark - 3 times or 3DMark 2006 Professional Edition Build Ver.1.2.1BenchMark - 3 times or 3DMark11 Professional Edition Ver.1.0.5 BenchMark - 3 times.
- (4) Run S1/S3/S4/S5 - 3 times.

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	Transcend	Micron	8GB	PC3-12800 (DDR3-1600)	1ZD27-D9PBC	TS1GSK64V6H 1.5V [512Mx8b-x16/1024Mx64b,CL=11]	Pass
2	Apacer	Micron	8GB	PC3-12800 (DDR3L-1600)	2ED27-D9PCP	75.C93DL.G000C 1.35V/1.5V [512Mx8b-x16/1024Mx64b,CL=11]	Pass
3	Crucial	Micron	8GB	PC3-12800 (DDR3L-1600)	2RD27D9PCP	CT102464BF160B.16FDD (MT16KTF1G64HZ-1G6D1) 1.35/1.5V [512Mx8b-x16/1024Mx64b,CL=11-11-11-30]	Pass
4	Hynix	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	HMT351S6BFR8C-PBNO 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
5	ADATA	ELPIDA	4GB	PC3-12800 (DDR3-1600)	J2108BCSE-GN-F	SU3S1600C4G11-B 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
6	Transcend	Micron	4GB	PC3-12800 (DDR3-1600)	2EM22(IYM77)-D9PFJ	TS512MSK64V6N (MT41K256M8DA) 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
7	INNODISK	Micron	4GB	PC3-12800 (DDR3L-1600)	1XM77-D9PFJ	M3SP-4GMJDL0C-M 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
8	Apacer	Micron	4GB	PC3-12800 (DDR3L-1600)	2DM77-D9PFJ	75.B83DL.G000C 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
9	Hynix	Hynix	2GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	HMT325S6BFR8C-PBNO 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass
10	ADATA	ELPIDA	2GB	PC3-12800 (DDR3-1600)	J2108BCSE-GN-F	EL74C1B08 10281590 1.5V [256Mx8b-x8/256Mx64b,CL=11-11-11]	Pass
11	Transcend	Transcend	2GB	PC3-12800 (DDR3-1600)	TK483PCW3-T1125	JJM11660000KSN--22G 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass
12	Transcend	Micron	2GB	PC3-12800 (DDR3-1600)	2IM77-D9PFJ	TS256MSK64V6N (MT41K256M8DA) 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass

13	Hynix	Hynix	1GB	PC3-12800 (DDR3-1600)	H5TQ2G63BFR PBC	HMT312S6BFR6C-PBNO 1.5V [128Mx16b-x4/128Mx64b,CL=11]	Pass
14	Transcend	Micron	8GB	PC3-10600 (DDR3-1333)	1ZD27-D9PBC	TS1GSK64V3H 1.5V [512Mx8b-x16/1024Mx64b,CL=9]	Pass
15	Transcend	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TQ2G83AFR H9C	TS512MSK64V3N 1.5V [256Mx8b/512Mx64b, Timings(Max) =9-9-9-24]	Pass
16	Kingston	ELPIDA	4GB	PC3-10600 (DDR3-1333)	J2108BASE-DJ-F	KVR1333D3S9/4G 1.5V [256Mx8b/512Mx64b, Timings(Max) =9-9-9-24]	Pass
17	DSL	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	D3SH56082XH15AA 1.5V	Pass
18	Crucial	Micron	4GB	PC3-10600 (DDR3-1333)	ICD77D9LGK	CT51264BC1339.16FR 1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
19	Transcend	SEC	4GB	PC3-10600 (DDR3-1333)	K4B2G0846D	TS512MSK64V3N 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass



No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
20	Transcend	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TQ2G83CFR PBC	TS512MSK64V3N 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass
21	Apacer	ELPIDA	4GB	PC3-10600 (DDR3L-1333)	J2108ECSE-DJ-F	78.B2GCL4210C 1.35V [256Mx8b-x16/512Mx64b,CL=9]	Pass
22	ELPIDA	SILICON	2GB	PC3-10600 (DDR3-1333)	J1108BABG-DJ-E	SP002GBSTU133S02 1.5V [128Mx8b/256Mx64b,CL=9-9-9-24]	Pass
23	DSL	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	D3SH56081XH15AA 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
24	Transcend	ELPIDA	2GB	PC3-10600 (DDR3-1333)	J1108BFBG-DJ-F	TS256MSK64V3U 1.5V [128Mx8b-*16/256Mx64b,CL=9]	Pass
25	Crucial	Micron	2GB	PC3-10600 (DDR3-1333)	OMD12D9LGK	CT25664BC1339.8FD 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
26	Transcend	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	TS256MSK64V3N 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
27	Transcend	SEC	2GB	PC3-10600 (DDR3-1333)	K4B2G0846D	TS256MSK64V3N 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
28	Transcend	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83CFR PBC	TS256MSK64V3N 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
29	Apacer	ELPIDA	2GB	PC3-10600 (DDR3L-1333)	J2108ECSE-DJ-F	78.A2GCL4200C 1.35V [256Mx8b-x8/256Mx64b,CL=9]	Pass
30	Transcend	Hynix	2GB	PC3-10600 (DDR3L-1333)	H5TQ2G83BFR-H9C	TS256MSK64W3N 1.35V/1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
31	DSL	Hynix	1GB	PC3-10600 (DDR3-1333)	H5TQ1G83BFR H9C	D3SH28081XH15AA 1.5V [128Mx8b-*8/128Mx64b,CL=9]	Pass
32	Apacer	ELPIDA	1GB	PC3-10600 (DDR3-1333)	J1108BFBG-DJ-F	78.02GC6.420 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass
33	Crucial	Micron	1GB	PC3-10600 (DDR3-1333)	0NDI2-D9LGQ	CT12864BC1339.4FD 1.5V [128Mx16b-x4/128Mx64b,CL=9]	Pass
34	Transcend	SEC	1GB	PC3-10600 (DDR3-1333)	K4B1G0846G	TS128MSK64V3U 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass
35	Kingston	ELPIDA	4GB	PC3-8500 (DDR3-1066)	J2108BASE-DJ-F	KVR1066D3S7/4G 1.5V [128Mx8bits/128Mx64bits,CL=7]	Pass
36	Apacer	Apacer	2GB	PC3-8500 (DDR3-1066)	AM5D5808MIJSBG 1.5V	AM5D5808MIJSBG 1.5V	Pass

37	G.SKILL	Nanya	2GB	PC3-8500 (DDR3-1066)	NT5CB128M8AN-CG	F3-8500CL7D-4GBSQ 1.5V [128Mx8b/256Mx64b,CL=7-7-7-20]	Pass
38	Transcend	ELPIDA	2GB	PC3-8500 (DDR3-1066)	J1108BASE-AE-E	TS256MSK64V1U 1.5V±0.75 [128Mx8bits/256Mx64bits,CL=7]	Pass
39	Kingston	ELPIDA	2GB	PC3-8500 (DDR3-1066)	J1108BABG-DJ-E	KVR1066D3S7/2G 1.5V [128Mx8bits/256Mx64bits,CL=7-7-7-20]	Pass
40	ADATA	ADATA	2GB	PC3-8500 (DDR3-1066)	AD30908C8D-18GG	AD31066002GOS (AD7YG1B16723) 1.5V [128Mx8bits/256Mx64bits,CL=7-7-7-20]	Pass
41	ADATA	Hynix	2GB	PC3-8500 (DDR3-1066)	H5TQ1G83AFPG7C	SU3S1066B2G7-B 1.5V [128Mx8bits/256Mx64bits,CL=7-7-7-20]	Pass
42	SILICON	S-POWER	2GB	PC3-8500 (DDR3-1066)	IOYT3NO	SP002GBSTU106S02 1.5V [128Mx8b/256Mx64b,CL=7-7-7-20]	Pass
43	Apacer	Apacer	1GB	PC3-8500 (DDR3-1066)	AM5D5808MIJSBG 1.5V	AM5D5808MIJSBG 1.5V	Pass
44	Transcend	SEC	1GB	PC3-8500 (DDR3-1066)	K4B1G0846D	TS128MSK64V1U 1.5V±0.75 [128Mx8bits/128Mx64bits,CL=6,7,8]	Pass
45	Kingston	ELPIDA	1GB	PC3-8500 (DDR3-1066)	J1108BABG-DJ-E	KVR1066D3S7/1G 1.5V [128Mx8bits/128Mx64bits,CL=7-7-7-20]	Pass



1.2 DDR3 SO-DIMM Test Procedures:

Procedure:

- (1) Install O.S.
- (2) Check Memory information & specification with CPU-Z.
- (3) Run 3DMark 2006 Professional Edition Build Ver.1.2.0Benchmark - 3 times or 3DMark 2006 Professional Edition Build Ver.1.2.1Benchmark - 3 times or 3DMark11 Professional Edition Ver.1.0.5 Benchmark - 3 times.
- (4) Run S1/S3/S4/S5 - 3 times.

No.	DDR3 Module	Test Environment	3DMark Score	Result
1	Transcend (TS1GSK64V6H 1.5V) [512Mx8b-x16/1024Mx64b,CL=11] / Micron (1ZD27-D9PBC) / PC3-12800 (DDR3-1600) / 8GB *2	M/B: CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-B810E / 1.6GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0 Test Summary: Overnight looping under 11 hours	1662	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 A.P.: 3DMark11 Ver.1.0.5	P560	Pass

2	<p>Apacer (75.C93DL.G000C 1.35V/1.5V) [512Mx8b-x16/1024Mx64b,CL=11] / Micron (2ED27-D9PCP) / PC3-12800 (DDR3L-1600) / 8GB *2</p>	<p>M/B: CR960-HM76BS0-827E Rev.2 (021) & COM331-B Rev.A (0A2)</p> <p>M/B BIOS: AMI-UEFI 06/17/2013</p> <p>M/B Driver: Demo May/13/2013</p> <p>CPU: Intel / Celeron-827E / 1.4GHz</p> <p>DIMM Slot: DIMM-1/2 (Dual channel)</p> <p>SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-ROM: Pioneer / DVD-231DW 18X SATA</p> <p>Power: Jagier / KY-580ATX 480W</p> <p>O.S.: Windows 7 Ultimate 64Bit (English) & SP1</p> <p>A.P.: 3DMark 2006 Build Ver.1.2.0</p>	1791	Pass
	<p>M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2)</p> <p>M/B BIOS: AMI-Aptio 09/04/2013</p> <p>M/B Driver: Demo Jun/25/2013</p> <p>CPU: Intel / Core i3-3120ME / 2.4GHz</p> <p>DIMM Slot: DIMM-1/2 (Dual channel)</p> <p>SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-ROM: Asus / DVD-E818A6T 18X SATA</p> <p>Power: SeaSonic / SS-400ET 400W</p> <p>O.S.: Windows XP Professional 64Bit Edition (English) & SP2</p> <p>A.P.: 3DMark 2006 Build Ver.1.2.1</p>	4361	Pass	



No.	DDR3 Module	Test Environment	3DMark Score	Result
3	Crucial (CT102464BF160B.16FDD) (MT16KTF1G64HZ-1G6D1) 1.35V/1.5V) [512Mx8b-x16/1024Mx64b,CL=11-11-11-30] / Micron (2RD27D9PCP) / PC3-12800 (DDR3L-1600) / 8GB *1	M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Core i3-3120ME (IvyBridge) / 2.4GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 64Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0	3824	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 A.P.: 3DMark11 Ver.1.0.5 Test Summary: Overnight looping under 11 hours	P530	Pass

4	<p>Hynix (HMT351S6BFR8C-PBNO 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Hynix (H5TQ2G83BFR PBC) / PC3-12800 (DDR3-1600) / 4GB *1</p>	<p>M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2)</p> <p>M/B BIOS: AMI-UEFI 06/17/2013</p> <p>M/B Driver: Demo May/13/2013</p> <p>CPU: Intel / Celeron-847E / 1.1GHz</p> <p>DIMM Slot: DIMM-2 (Single channel)</p> <p>SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-ROM: Asus / DVD-E818A6T 18X SATA</p> <p>Power: Delta / GPS-500BB 500W</p> <p>O.S.: Windows 7 Ultimate 64Bit (English) & SP1</p> <p>A.P.: 3DMark 2006 Build Ver.1.2.0</p> <p>Test Summary: Overnight looping under 11 hours</p>	1974	Pass
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No.	DDR3 Module	Test Environment	3DMark Score	Result
5	ADATA (SU3S1600C4G11-B 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / ELPIDA (J2108BCSE-GN-F) / PC3-12800 (DDR3-1600) / 4GB *2	M/B: CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-B810E / 1.6GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD15EADS-00R6B0 SATA2 NCQ 1.5TB/7200RPM Display: On Board DVD-RW: Lite-On / It iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 64Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0	2604	Pass
	ADATA (SU3S1600C4G11-B 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / ELPIDA (J2108BCSE-GN-F) / PC3-12800 (DDR3-1600) / 4GB *1	M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Archgon / MD-3107-U3 USB3.0 Power: SeaSonic / SS-400ET 400W O.S.: Windows 8 Enterprise 32Bit (English) A.P.: 3DMark11 Ver.1.0.5	P526	Pass



6	Transcend (TS512MSK64V6N (MT41K256M8DA) / 1.5V)	M/B:	CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2)	4792	Pass
	[56Mx8b-x16/512Mx64b,CL=11] /	M/B BIOS:	AMI-UEFI 06/17/2013		
	Micron (2EM22(IYM77)-D9PFJ) /	M/B Driver:	Demo May/13/2013		
	PC3-12800 (DDR3-1600) /	CPU:	Intel / Core i3-3120ME (IvyBridge) / 2.4GHz		
	4GB *2	DIMM Slot:	DIMM-1/2 (Dual channel)		
		SATA HDD:	Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM		
		Display:	On Board		
		DVD-RW:	Pioneer / DVD-231DW 18X SATA		
		Power:	Jagier / KY-580ATX 480W		
		O.S.:	Windows 7 Ultimate 64Bit (English) & SP1		
	A.P.:	3DMark 2006 Build Ver.1.2.0			

No.	DDR3 Module	Test Environment	3DMark Score	Result
7	INNODISK (M3SP-4GMJDL0C-M 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=9] / Micron (1XM77-D9PFJ) / PC3-12800 (DDR3L-1600) / 4GB *2	M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-847E / 1.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-XD01 8X USB2.0 Slim Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 64Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0	2098	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T/BLK/G/AS 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 A.P.: 3DMark 2006 Build Ver.1.2.1 Test Summary: Overnight looping under 11 hours	4526	Pass

8	<p>Apacer (75.B83DL.G000C 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Micron (2DM77-D9PFJ) / PC3-12800 (DDR3L-1600) / 4GB *2</p>	<p>M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2)</p> <p>M/B BIOS: AMI-UEFI 06/17/2013</p> <p>M/B Driver: Demo May/13/2013</p> <p>CPU: Intel / Celeron-847E / 1.1GHz</p> <p>DIMM Slot: DIMM-1/2 (Dual channel)</p> <p>SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-ROM: Asus / DVD-E818A6T 18X SATA</p> <p>Power: Delta / GPS-500BB 500W</p> <p>O.S.: Windows XP Professional 64Bit Edition (English) & SP2</p> <p>A.P.: 3DMark 2006 Build Ver.1.2.0</p>	2114	Pass
	<p>Apacer (75.B83DL.G000C 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Micron (2DM77-D9PFJ) / PC3-12800 (DDR3L-1600) / 4GB *1</p>	<p>M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2)</p> <p>M/B BIOS: AMI-Aptio 09/04/2013</p> <p>M/B Driver: Demo Jun/25/2013</p> <p>CPU: Intel / Core i3-3120ME / 2.4GHz</p> <p>DIMM Slot: DIMM-2 (Single channel)</p> <p>SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-ROM: Archgon / MD-3107-U3 USB3.0</p> <p>Power: SeaSonic / SS-400ET 400W</p> <p>O.S.: Windows XP Professional 64Bit Edition (English) & SP2</p> <p>A.P.: 3DMark 2006 Build Ver.1.2.1</p>	3517	Pass



No.	DDR3 Module	Test Environment	3DMark Score	Result
9	Hynix (HMT325S6BFR8C-PBNO 1.5V) [256Mx8b-x8/256Mx64b,CL=11] / Hynix (H5TQ2G83BFR PBC) / PC3-12800 (DDR3-1600) / 2GB *2	M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-847E / 1.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0	1698	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 8 Enterprise 32Bit (English) A.P.: 3DMark11 Ver.1.0.5	P557	Pass

<p>10</p>	<p>ADATA (EL74C1B08 10281590 1.5V) [256Mx8b-x8/256Mx64b,CL=11-11-11] / ELPIDA (J2108BCSE-GN-F) / PC3-12800 (DDR3-1600) / 2GB *2</p>	<p>M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-847E / 1.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-XD01 8X USB2.0 Slim Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 32Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>2081</p>	<p>Pass</p>
<p>11</p>	<p>Transcend (JJM11660000KSN--22G 1.5V) [256Mx8b-x8/256Mx64b,CL=11] / Transcend (TK483PCW3-T1125) / PC3-12800 (DDR3-1600) / 2GB *2</p>	<p>M/B: CR960-HM76BS0-827E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-827E / 1.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>1786</p>	<p>Pass</p>



12	Transcend (TS256MSK64V6N (MT41K256M8DA) 1.5V) [256Mx8b-x8/256Mx64b,CL=11] / Micron (2IM77-D9PFJ) / PC3-12800 (DDR3-1600) / 2GB *2	M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2)	1888	Pass
	M/B BIOS: AMI-UEFI 06/17/2013			
	M/B Driver: Demo May/13/2013			
	CPU: Intel / Celeron-847E / 1.1GHz			
	DIMM Slot: DIMM-1/2 (Dual channel)			
	SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM			
	Display: On Board			
	DVD-ROM: Asus / DVD-E818A6T 18X SATA			
	Power: Delta / GPS-500BB 500W			
	O.S.: Windows XP Professional 32Bit (English) & SP3			
A.P.: 3DMark 2006 Build Ver.1.2.0				

No.	DDR3 Module	Test Environment	3DMark Score	Result
13	Hynix (HMT312S6BFR6C-PBNO 1.5V) [128Mx16b-x4/128Mx64b,CL=11] / Hynix (H5TQ2G63BFR PBC) / PC3-12800 (DDR3-1600) / 1GB *2	M/B: CR960-HM76BS0-827E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-827E / 1.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 32Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0	1698	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark11 Ver.1.0.5	P553	Pass

14	Transcend (TS1GSK64V3H 1.5V) [512Mx8b-x16/1024Mx64b,CL=9] / Micron (1ZD27-D9PBC) / PC3-10600 (DDR3-1333) / 8GB *2	M/B: CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-B810E / 1.6GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 64Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0	2589	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ Display: 500GB/7200RPM DVD-ROM: On Board Power: Asus / DVD-E818A6T 18X SATA O.S.: SeaSonic / SS-400ET 400W A.P.: Windows 7 Ultimate 64Bit (English) & SP1 3DMark11 Ver.1.0.5	P558	Pass



No.	DDR3 Module	Test Environment	3DMark Score	Result
15	Transcend (TS512MSK64V3N 1.5V) [256Mx8b/512Mx64b, Timings(Max)=9-9-9-24] / Hynix (H5TQ2G83AFR H9C) / PC3-10600 (DDR3-1333) / 4GB *2	M/B: CR960-HM76BS0-827E Rev.2 (021) & COM331-B Rev.A (0A2)	1806	Pass
		M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-827E / 1.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 32Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0		
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2)	P556	Pass
		M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 8 Enterprise 64Bit (English) A.P.: 3DMark11 Ver.1.0.5		



<p>16</p>	<p>Kingston (KVR1333D3S9/4G 1.5V) [256Mx8b/512Mx64b, Timings(Max)=9-9-9-24] / ELPIDA (J2108BASE-DJ-F) / PC3-10600 (DDR3-1333) / 4GB *2</p>	<p>M/B: CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-B810E / 1.6GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>2603</p>	<p>Pass</p>
<p>17</p>	<p>DSL (D3SH56082XH15AA 1.5V) / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 4GB *2</p>	<p>M/B: CR960-HM76BS0-827E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-827E / 1.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>1805</p>	<p>Pass</p>



	DSL (D3SH56082XH15AA 1.5V) / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 4GB *1	M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 8 Enterprise 64Bit (English) A.P.: 3DMark11 Ver.1.0.5 Test Summary: Overnight looping under 11 hours	P511	Pass
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No.	DDR3 Module	Test Environment	3DMark Score	Result
18	Crucial (CT51264BC1339.16FR 1.5V) [256Mx8b-x16/512Mx64b,CL=9] / Micron (ICD77D9LGK) / PC3-10600 (DDR3-1333) / 4GB *2	M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-847E / 1.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-XD01 8X USB2.0 Slim Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0	2083	Pass
19	Transcend (TS512MSK64V3N 1.5V) [256Mx8b-*16/512Mx64b,CL=9] / SEC (K4B2G0846D) / PC3-10600 (DDR3-1333) / 4GB *2	M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Core i3-3120ME (IvyBridge) / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 A.P.: 3DMark 2006 Build Ver.1.2.0	3950	Pass

	<p>Transcend (TS512MSK64V3N 1.5V) [256Mx8b-*16/512Mx64b,CL=9] / SEC (K4B2G0846D) / PC3-10600 (DDR3-1333) / 4GB *1</p>	<p>M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark11 Ver.1.0.5</p>	<p>P513</p>	<p>Pass</p>
<p>20</p>	<p>Transcend (TS512MSK64V3N 1.5V) [256Mx8b-*16/512Mx64b,CL=9] / Hynix (H5TQ2G83CFR PBC) / PC3-10600 (DDR3-1333) / 4GB *2</p>	<p>M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-847E / 1.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 64Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>2091</p>	<p>Pass</p>



No.	DDR3 Module	Test Environment	3DMark Score	Result
21	Apacer (78.B2GCL4210C 1.35V) [256Mx8b-x16/512Mx64b,CL=9] / ELPIDA (J2108ECSE-DJ-F) / PC3-10600 (DDR3L-1333) / 4GB *2	M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-847E / 1.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-RW: Archgon / MD-3107-U3 USB3.0 Power: Delta / GPS-500BB 500W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 A.P.: 3DMark 2006 Build Ver.1.2.0 Test Summary: Overnight looping under 12 hours	2574	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T/BLK/G/AS 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 64Bit Edition (English) & SP2 A.P.: 3DMark 2006 Build Ver.1.2.1	4366	Pass



22	ELPIDA (SP002GBSTU133S02 1.5V) [128Mx8b/256Mx64b,CL=9-9-9-24] / SILICON (J1108BABG-DJ-E) / PC3-10600 (DDR3-1333) / 2GB *2	M/B:	CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2)	2741	Pass
	M/B BIOS:	AMI-UEFI 06/17/2013			
	M/B Driver:	Demo May/13/2013			
	CPU:	Intel / Celeron-B810E / 1.6GHz			
	DIMM Slot:	DIMM-1/2 (Dual channel)			
	SATA HDD:	Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM			
	Display:	On Board			
	DVD-ROM:	Asus / DVD-E818A6T 18X SATA			
	Power:	Jagier / KY-580ATX 480W			
	O.S.:	Windows XP Professional 32Bit (English) & SP3			
	A.P.:	3DMark 2006 Build Ver.1.2.0			

No.	DDR3 Module	Test Environment	3DMark Score	Result
23	DSL (D3SH56081XH15AA 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 2GB *2	M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-847E / 1.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 8 Enterprise 32Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0	2080	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark11 Ver.1.0.5 Test Summary: Overnight looping under 11 hours	P549	Pass

<p>24</p>	<p>Transcend (TS256MSK64V3U 1.5V) [128Mx8b-*16/256Mx64b,CL=9] / ELPIDA (J1108BFBG-DJ-F) / PC3-10600 (DDR3-1333) / 2GB *2</p>	<p>M/B: CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-B810E / 1.6GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Transcend / TS32GSSD500 SATA2 32GB/2.5" Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>2595</p>	<p>Pass</p>
<p>25</p>	<p>Crucial (CT25664BC1339.8FD 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Micron (OMD12D9LGK) / PC3-10600 (DDR3-1333) / 2GB *1</p>	<p>M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-847E / 1.1GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>1928</p>	<p>Pass</p>



No.	DDR3 Module	Test Environment	3DMark Score	Result
26	Transcend (TS256MSK64V3N 1.5V) [256Mx8b-*8/256Mx64b,CL=9] / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 2GB *1	M/B: CR960-HM76BS0-827E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-827E / 1.4GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 32Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0 Test Summary: Overnight looping under 12 hours	1707	Pass
27	Transcend (TS256MSK64V3N 1.5V) [256Mx8b-*8/256Mx64b,CL=9] / SEC (K4B2G0846D) / PC3-10600 (DDR3-1333) / 2GB *2	M/B: CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-B810E / 1.6GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0	2565	Pass

28	Transcend (TS256MSK64V3N 1.5V) [256Mx8b-*8/256Mx64b,CL=9] /	M/B:	CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2)	1441	Pass
	Hynix (H5TQ2G83CFR PBC) /	M/B BIOS:	AMI-UEFI 06/17/2013		
	PC3-10600 (DDR3-1333) /	M/B Driver:	Demo May/13/2013		
	2GB *2	CPU:	Intel / Core i3-3120ME (IvyBridge) / 2.4GHz		
		DIMM Slot:	DIMM-1/2 (Dual channel)		
		SATA HDD:	Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM		
		Display:	On Board		
		DVD-ROM:	Pioneer / DVD-231DW 18X SATA		
		Power:	Jagier / KY-580ATX 480W		
		O.S.:	Windows XP Professional 32Bit (English) & SP3		
	A.P.:	3DMark 2006 Build Ver.1.2.0			

No.	DDR3 Module	Test Environment	3DMark Score	Result
29	Apacer (78.A2GCL4200C 1.35V) [256Mx8b-x8/256Mx64b,CL=9] / ELPIDA (J2108ECSE-DJ-F) / PC3-10600 (DDR3L-1333) / 2GB *2	M/B: CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-B810E / 1.6GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD15EADS-00R6B0 SATA2 NCQ 1.5TB/7200RPM Display: On Board DVD-RW: Lite-On / It iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0 Test Summary: Overnight looping under 12 hours	2574	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T/BLK/G/AS 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 32Bit (English) & SP3 A.P.: 3DMark 2006 Build Ver.1.2.1	4526	Pass

30	<p>Transcend (TS256MSK64W3N 1.35V/1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Hynix (H5TQ2G83BFR-H9C) / PC3-10600 (DDR3L-1333) / 2GB *2</p>	<p>M/B: CR960-HM76BS0-827E Rev.2 (021) & COM331-B Rev.A (0A2)</p> <p>M/B BIOS: AMI-UEFI 06/17/2013</p> <p>M/B Driver: Demo May/13/2013</p> <p>CPU: Intel / Celeron-827E / 1.4GHz</p> <p>DIMM Slot: DIMM-1/2 (Dual channel)</p> <p>SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-ROM: Pioneer / DVD-231DW 18X SATA</p> <p>Power: Jagier / KY-580ATX 480W</p> <p>O.S.: Windows XP Professional 32Bit (English) & SP3</p> <p>A.P.: 3DMark 2006 Build Ver.1.2.0</p> <p>Test Summary: Overnight looping under 12 hours</p>	1606	Pass
	<p>M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2)</p> <p>M/B BIOS: AMI-Aptio 09/04/2013</p> <p>M/B Driver: Demo Jun/25/2013</p> <p>CPU: Intel / Core i3-3120ME / 2.4GHz</p> <p>DIMM Slot: DIMM-1/2 (Dual channel)</p> <p>SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-ROM: Asus / DVD-E818A6T 18X SATA</p> <p>Power: SeaSonic / SS-400ET 400W</p> <p>O.S.: Windows 8 Enterprise 32Bit (English)</p> <p>A.P.: 3DMark11 Ver.1.0.5</p>	P546	Pass	



No.	DDR3 Module	Test Environment	3DMark Score	Result
31	DSL (D3SH28081XH15AA 1.5V) [128Mx8b-*8/128Mx64b,CL=9] / Hynix (H5TQ1G83BFR H9C) / PC3-10600 (DDR3-1333) / 1GB *2	M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Core i3-3120ME (IvyBridge) / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0	1717	Pass
32	Apacer (78.02GC6.420 1.5V) [128Mx8b-x8/128Mx64b,CL=9] / ELPIDA (J1108BFBG-DJ-F) / PC3-10600 (DDR3-1333) / 1GB *2	M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Core i3-3120ME (IvyBridge) / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 8 Enterprise 32Bit (English) A.P.: 3DMark 2006 Build Ver.1.2.0	3610	Pass

33	Crucial (CT12864BC1339.4FD 1.5V) [128Mx16b-x4/128Mx64b,CL=9] / Micron (0NDI2-D9LGQ) / PC3-10600 (DDR3-1333) / 1GB *2	M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-847E / 1.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-XD01 8X USB2.0 Slim Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0	2071	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ Display: 500GB/7200RPM DVD-ROM: On Board Power: Asus / DVD-E818A6T 18X SATA O.S.: SeaSonic / SS-400ET 400W A.P.: Windows 7 Ultimate 32Bit (English) & SP1 3DMark11 Ver.1.0.5	P550	Pass



34	Transcend (TS128MSK64V3U 1.5V) [128Mx8b-x8/128Mx64b,CL=9] / SEC (K4B1G0846G) / PC3-10600 (DDR3-1333) / 1GB *2	M/B:	CR960-HM76BS0-827E Rev.2 (021) & COM331-B Rev.A (0A2)	1708	Pass
	M/B BIOS:	AMI-UEFI 06/17/2013			
	M/B Driver:	Demo May/13/2013			
	CPU:	Intel / Celeron-827E / 1.4GHz			
	DIMM Slot:	DIMM-1/2 (Dual channel)			
	SATA HDD:	Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM			
	Display:	On Board			
	DVD-ROM:	Pioneer / DVD-231DW 18X SATA			
	Power:	Jagier / KY-580ATX 480W			
	O.S.:	Windows 8 Enterprise 32Bit (English)			
A.P.:	3DMark 2006 Build Ver.1.2.0				

No.	DDR3 Module	Test Environment	3DMark Score	Result	
35	Kingston (KVR1066D3S7/4G 1.5V) [128Mx8bits/128Mx64bits,CL=7] / ELPIDA (J2108BASE-DJ-F) / PC3-8500 (DDR3-1066) / 4GB *2	M/B:	CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2)	1219	Pass
	M/B BIOS:	AMI-UEFI 06/17/2013			
	M/B Driver:	Demo May/13/2013			
	CPU:	Intel / Core i3-3120ME (IvyBridge) / 2.4GHz			
	DIMM Slot:	DIMM-1/2 (Dual channel)			
	SATA HDD:	Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM			
	Display:	On Board			
	DVD-ROM:	Pioneer / DVD-231DW 18X SATA			
	Power:	Jagier / KY-580ATX 480W			
	O.S.:	Windows 8 Enterprise 64Bit (English)			
A.P.:	3DMark 2006 Build Ver.1.2.0				



	<p>Kingston (KVR1066D3S7/4G 1.5V) [128Mx8bits/128Mx64bits,CL=7] / ELPIDA (J2108BASE-DJ-F) / PC3-8500 (DDR3-1066) / 4GB *1</p>	<p>M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ Display: 500GB/7200RPM DVD-ROM: On Board Power: Archgon / MD-3107-U3 USB3.0 O.S.: SeaSonic / SS-400ET 400W A.P.: Windows XP Professional 32Bit (English) & SP3 3DMark 2006 Build Ver.1.2.1</p>	<p>2947</p>	<p>Pass</p>
<p>36</p>	<p>Apacer (AM5D5808MIJSBG 1.5V) / Apacer (AM5D5808MIJSBG 1.5V) / PC3-8500 (DDR3-1066) / 2GB *1</p>	<p>M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Core i3-3120ME (IvyBridge) / 2.4GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows XP Professional 32Bit (English) & SP3 A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>1534</p>	<p>Pass</p>



<p>37</p>	<p>G.SKILL (F3-8500CL7D-4GBSQ 1.5V) [128Mx8b/256Mx64b,CL=7-7-7-20] / Nanya (NT5CB128M8AN-CG) / PC3-8500 (DDR3-1066) / 2GB *2</p>	<p>M/B: CR960-HM76BS0-827E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-827E / 1.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>1789</p>	<p>Pass</p>
<p>38</p>	<p>Transcend (TS256MSK64V1U 1.5V±0.75) [128Mx8bits/256Mx64bits,CL=7] / ELPIDA (J1108BASE-AE-E) / PC3-8500 (DDR3-1066) / 2GB *2</p>	<p>M/B: CR960-HM76BS0-847E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-847E / 1.1GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows XP Professional 32Bit (English) & SP3 A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>2066</p>	<p>Pass</p>



No.	DDR3 Module	Test Environment	3DMark Score	Result
39	Kingston (KVR1066D3S7/2G 1.5V) [128Mx8bits/256Mx64bits,CL=7-7-7-20] / ELPIDA (J1108BABG-DJ-E) / PC3-8500 (DDR3-1066) / 2GB *2	M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Core i3-3120ME (IvyBridge) / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0	2142	Pass
		M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-Aptio 09/04/2013 M/B Driver: Demo Jun/25/2013 CPU: Intel / Core i3-3120ME / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD5000AAKS SATA2 NCQ 500GB/7200RPM Display: On Board DVD-ROM: Asus / DVD-E818A6T/BLK/G/AS 18X SATA Power: SeaSonic / SS-400ET 400W O.S.: Windows XP Professional 32Bit (English) & SP3 A.P.: 3DMark 2006 Build Ver.1.2.1	4243	Pass

<p>40</p>	<p>ADATA (AD31066002GOS (AD7YG1B16723) 1.5V) [128Mx8bits/256Mx64bits,CL=7-7-7-20] / ADATA (AD30908C8D-18GG) / PC3-8500 (DDR3-1066) / 2GB *2</p>	<p>M/B: CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2)</p> <p>M/B BIOS: AMI-UEFI 06/17/2013</p> <p>M/B Driver: Demo May/13/2013</p> <p>CPU: Intel / Celeron-B810E / 1.6GHz</p> <p>DIMM Slot: DIMM-1/2 (Dual channel)</p> <p>SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-ROM: Asus / DVD-E818A6T 18X SATA</p> <p>Power: Delta / GPS-500BB 500W</p> <p>O.S.: Windows 8 Enterprise 32Bit (English)</p> <p>A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>2553</p>	<p>Pass</p>
<p>41</p>	<p>ADATA (SU3S1066B2G7-B 1.5V) [128Mx8bits/256Mx64bits,CL=7-7-7-20] / Hynix (H5TQ1G83AFPG7C) / PC3-8500 (DDR3-1066) / 2GB *2</p>	<p>M/B: CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2)</p> <p>M/B BIOS: AMI-UEFI 06/17/2013</p> <p>M/B Driver: Demo May/13/2013</p> <p>CPU: Intel / Celeron-B810E / 1.6GHz</p> <p>DIMM Slot: DIMM-1/2 (Dual channel)</p> <p>SATA HDD: Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM</p> <p>Display: On Board</p> <p>DVD-ROM: Asus / DVD-E818A6T 18X SATA</p> <p>Power: Delta / GPS-500BB 500W</p> <p>O.S.: Windows 8 Enterprise 32Bit (English)</p> <p>A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>2562</p>	<p>Pass</p>



<p>42</p>	<p>SILICON (SP002GBSTU106S02 1.5V) [128Mx8b/256Mx64b,CL=7-7-7-20] / S-POWER (IOYT3NO) / PC3-8500 (DDR3-1066) / 2GB *2</p>	<p>M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Core i3-3120ME (IvyBridge) / 2.4GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 A.P.: 3DMark 2006 Build Ver.1.2.0</p>	<p>2443</p>	<p>Pass</p>
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No.	DDR3 Module	Test Environment	3DMark Score	Result
43	Apacer (AM5D5808MIJSBG 1.5V) / Apacer (AM5D5808MIJSBG 1.5V) / PC3-8500 (DDR3-1066) / 1GB *1	M/B: CR960-QM77BS0-3120ME Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Core i3-3120ME (IvyBridge) / 2.4GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: Seagate / ST3320620SV SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows XP Professional 32Bit (English) & SP3 A.P.: 3DMark 2006 Build Ver.1.2.0 Test Summary: Overnight looping under 12 hours	1105	Pass
44	Transcend (TS128MSK64V1U 1.5V±0.75) [128Mx8bits/128Mx64bits,CL=6,7,8] / SEC (K4B1G0846D) / PC3-8500 (DDR3-1066) / 1GB *2	M/B: CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 06/17/2013 M/B Driver: Demo May/13/2013 CPU: Intel / Celeron-B810E / 1.6GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD15EADS-00R6B0 SATA2 NCQ 1.5TB/7200RPM Display: On Board DVD-RW: Lite-On / It iHAS324-U32D SATA Power: Delta / GPS-500BB 500W O.S.: Windows XP Professional 32Bit (English) & SP3 A.P.: 3DMark 2006 Build Ver.1.2.0	2699	Pass

45	Kingston (KVR1066D3S7/1G 1.5V) [128Mx8bits/128Mx64bits,CL=7-7-7-20] / ELPIDA (J1108BABG-DJ-E) / PC3-8500 (DDR3-1066) / 1GB *2	M/B:	CR960-HM76BS0-810E Rev.2 (021) & COM331-B Rev.A (0A2)	2517	Pass
	M/B BIOS:	AMI-UEFI 06/17/2013			
	M/B Driver:	Demo May/13/2013			
	CPU:	Intel / Celeron-B810E / 1.6GHz			
	DIMM Slot:	DIMM-1/2 (Dual channel)			
	SATA HDD:	Maxtor / STM3320614AS SATA2 NCQ 320GB/7200RPM			
	Display:	On Board			
	DVD-RW:	Asus / DVD-E818A6T 18X			
	Power:	Delta / GPS-500BB 500W			
	O.S.:	Windows 7 Ultimate 32Bit (English) & SP1			
A.P.:	3DMark 2006 Build Ver.1.2.0				

