

1. Reliability Test: 011

1.1 DDR3 SO-DIM Module Test:

Procedure:

(i) Install O.S.

(ii) Run 3DMark 2006 Professional Edition Build Ver. 1.2.0 BenchMark - 3 times.

(iii) Run S1/S3/S4/S5 - 3 times.

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
1	Apacer	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	78.B2GCJAF10C 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
2	Hynix	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	HMT351S6BFR8C-PBNO 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
3	A-Data	ELPIDA	4GB	PC3-12800 (DDR3-1600)	J2108BCSE-GN-F	SU3S1600C4G11-B 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
4	Hynix	Hynix	2GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	HMT325S6BFR8C-PBNO 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass
5	Hynix	Hynix	1GB	PC3-12800 (DDR3-1600)	H5TQ2G63BFR PBC	HMT312S6BFR6C-PBNO 1.5V [128Mx16b-x4/128Mx64b,CL=11]	Pass
6	Transcend	SEC	4GB	PC3-10600 (DDR3-1333)	K4B2G0846C	TS512MSK64V3N-I 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass
7	Transcend	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TQ2G83CFR H9C	TS512MSK64V3N 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass
8	Transcend	SEC	4GB	PC3-10600 (DDR3-1333)	K4B2G0846C	TS512MSK64V3N 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass
9	Transcend	ELPIDA	2GB	PC3-10600 (DDR3-1333)	J1108BFBG-DJ-F	TS256MSK64V3U 1.5V [128Mx8b-*16/256Mx64b,CL=9]	Pass
10	Crucial	Micron	2GB	PC3-10600 (DDR3-1333)	OMD12D9LGK	CT25664BC1339.8FD 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
11	Transcend	Hynix	1GB	PC3-10600 (DDR3-1333)	H5TQ1G83TFR H9C	TS128MSK64V3U 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass
12	Crucial	Micron	1GB	PC3-10600 (DDR3-1333)	0NDI2-D9LGQ	CT12864BC1339.4FD 1.5V [128Mx16b-x4/128Mx64b,CL=9]	Pass
13	Transcend	SEC	1GB	PC3-10600 (DDR3-1333)	K4B1G0846G	TS128MSK64V3U 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass
14	Transcend	Hynix	4GB	PC3-8500 (DDR3-1066)	H5TQ2G83AFRH9C	TS512MSK64V1N 1.5V [256Mx8b/512Mx64b,CL=7-7-7-20]	Pass

*Each memory module tested at room temperature.

2. Reliability Test: 1.0

2.1 CPU Test:

Procedure:

- (i) Install O.S.
- (ii) Check CPU information & specification with CPU-Z.
- (iii) Run 3DMark11 Professional Edition Ver.1.0.3 BenchMark - 3 times.
- (iv) Check CPU temperature in the BIOS after running 3DMark.
- (v) Run S3/S4/S5 - 3 times.

No.	CPU	Type	CPU Temp.	Result
1	AMD / 2.7GHz	Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ/Radeon HD 7520G GPU) / Socket FS1(FS1r2)	47 °C	Pass
2	AMD / 2.5GHz	Embedded R-Series R-268D (Dual Core/Bulldozer-B0/RE268DDEC23HJ/Radeon HD 7420G GPU) / Socket FS1(FS1r2)	-	Pass
3	AMD / 2.3GHz	Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ/Radeon HD 7660G GPU) / Socket FS1(FS1r2)	41 °C	Pass
4	AMD / 1.9GHz	Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ/Radeon HD 7640G GPU) / Socket FS1(FS1r2)	45 °C	Pass

2.2 DDR3 SO-DIMM Test:

Procedure:

- (i) Install O.S.
- (ii) Check Memory information & specification with CPU-Z.
- (iii) Run 3DMark 2006 Professional Edition Build Ver.1.2.0 BenchMark - 3 times or Run 3DMark11 Professional Edition Ver.1.0.3 BenchMark - 3 times.
- (iv) Run 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	Apacer	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	78.B2GCJAF10C 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
5	Hynix	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	HMT351S6BFR8C-PBNO 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
6	ADATA	ELPIDA	4GB	PC3-12800 (DDR3-1600)	J2108BCSE-GN-F	SU3S1600C4G11-B 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
7	ADATA	Micron	4GB	PC3-12800 (DDR3-1600)	2GKI2-D9PSH	AD3S1600C4G11-BMIK 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
8	INNODISK	Micron	4GB	PC3-12800 (DDR3L-1600)	1XM77-D9PFJ	M3SP-4GMJDL0C-M 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
9	Apacer	Micron	4GB	PC3-12800 (DDR3L-1600)	2DM77-D9PFJ	75.B83DL.G000C 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
10	Crucial	Micron	4GB	PC3-12800 (DDR3L-1600)	2RM77D9PFJ	CT51264BF160B.16FMR (MT16KTF51264HZ-1G6M1) 1.35V/135V [256Mx8b-x16/512Mx64b,CL=11-11-11-30]	Pass
11	Hynix	Hynix	2GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	HMT325S6BFR8C-PBNO 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass
12	ADATA	ELPIDA	2GB	PC3-12800 (DDR3-1600)	J2108BCSE-GN-F	EL74C1B08 10281590 1.5V [256Mx8b-x8/256Mx64b,CL=11-11-11]	Pass
13	Transcend	Transcend	2GB	PC3-12800 (DDR3-1600)	TK483PCW3-T1125	JJM11660000KSN--22G 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass
14	INNODISK	Micron	2GB	PC3-12800 (DDR3L-1600)	1WM77-D9PFJ	M3SP-2GMJCL0C-M 1.35V/1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
15	Hynix	Hynix	1GB	PC3-12800 (DDR3-1600)	H5TQ2G63BFR PBC	HMT312S6BFR6C-PBNO 1.5V [128Mx16b-x4/128Mx64b,CL=11]	Pass
16	Transcend	Micron	8GB	PC3-10600 (DDR3-1333)	1ZD27-D9PBC	TS1GSK64V3H 1.5V [512Mx8b-x16/1024Mx64b,CL=9]	Pass
17	INNODISK	Hynix	8GB	PC3-10600 (DDR3-1333)	H5TQ4G83MFR PBC	M3SP-8GHSDCN9-M 1.5V [512Mx8b-x16/1Gx64b,CL=9]	Pass
18	Transcend	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TQ2G83AFR H9C	TS512MSK64V3N 1.5V [256Mx8b/512Mx64b, Timings(Max)=9-9-9-24]	Pass
19	DSL	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	D3SH56082XH15AA 1.5V	Pass
20	Crucial	Micron	4GB	PC3-10600 (DDR3-1333)	ICD77D9LGK	CT51264BC1339.16FR 1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
21	Transcend	SEC	4GB	PC3-10600 (DDR3-1333)	K4B2G0846D	TS512MSK64V3N-I 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass
22	Transcend	SEC	4GB	PC3-10600 (DDR3-1333)	K4B2G0846D	TS512MSK64V3N 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass
23	INNODISK	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TC2G83EFR PBA	M3SW-4GHJDCN9-E 1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
24	Apacer	ELPIDA	4GB	PC3-10600 (DDR3L-1333)	J2108ECSE-DJ-F	78.B2GCL4210C 1.35V [256Mx8b-x16/512Mx64b,CL=9]	Pass
25	Transcend	SEC	4GB	PC3-10600 (DDR3L-1333)	K4B2G0846D	TS512MSK64W3N 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
26	ELPIDA	SILICON	2GB	PC3-10600 (DDR3-1333)	J1108BABG-DJ-E	SP002GBSTU133S02 1.5V [128Mx8b/256Mx64b,CL=9-9-9-24]	Pass
27	DSL	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	D3SH56081XH15AA 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
28	Transcend	ELPIDA	2GB	PC3-10600 (DDR3-1333)	J1108BFBG-DJ-F	TS256MSK64V3U 1.5V [128Mx8b-*16/256Mx64b,CL=9]	Pass
29	Crucial	Micron	2GB	PC3-10600 (DDR3-1333)	OMD12D9LGK	CT25664BC1339.8FD 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
30	Transcend	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	TS256MSK64V3N 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
31	Transcend	SEC	2GB	PC3-10600 (DDR3-1333)	K4B2G0846D	TS256MSK64V3N-I 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
32	Transcend	SEC	2GB	PC3-10600 (DDR3-1333)	K4B2G0846D	TS256MSK64V3N 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
33	INNODISK	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TC2G83EFR PBA	M3SW-2GHJCCN9-E 1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
34	Apacer	ELPIDA	2GB	PC3-10600 (DDR3L-1333)	J2108ECSE-DJ-F	78.A2GCL4200C 1.35V [256Mx8b-x8/256Mx64b,CL=9]	Pass
35	Transcend	Hynix	2GB	PC3-10600 (DDR3L-1333)	H5TQ2G83BFR-H9C	TS256MSK64W3N 1.35V/1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
36	INNODISK	Hynix	1GB	PC3-10600 (DDR3-1333)	H5TQ1G83DFR H9C	M3SN-1GHFC009-D 1.5V [128Mx8b-*8/128Mx64b,CL=9]	Pass

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
37	DSL	Hynix	1GB	PC3-10600 (DDR3-1333)	H5TQ1G83BFR H9C	D3SH28081XH15AA 1.5V [128Mx8b-*8/128Mx64b,CL=9]	Pass
38	Crucial	Micron	1GB	PC3-10600 (DDR3-1333)	0NDI2-D9LGQ	CT12864BC1339.4FD 1.5V [128Mx16b-x4/128Mx64b,CL=9]	Pass
39	Transcend	SEC	1GB	PC3-10600 (DDR3-1333)	K4B1G0846G	TS128MSK64V3U 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass
40	Apacer	Apacer	2GB	PC3-8500 (DDR3-1066)	AM5D5808MIJSBG 1.5V	AM5D5808MIJSBG 1.5V	Pass
41	Transcend	ELPIDA	2GB	PC3-8500 (DDR3-1066)	J1108BASE-AE-E	TS256MSK64V1U 1.5V±0.75 [128Mx8bits/256Mx64bits,CL=7]	Pass
42	Kingston	ELPIDA	2GB	PC3-8500 (DDR3-1066)	J1108BABG-DJ-E	KVR1066D3S7/2G 1.5V [128Mx8bits/256Mx64bits,CL=7-7-7-20]	Pass
43	ADATA	ADATA	2GB	PC3-8500 (DDR3-1066)	AD30908C8D-18GG	AD31066002GOS (AD7YG1B16723) 1.5V [128Mx8bits/256Mx64bits,CL=7-7-7-20]	Pass
44	SILICON	S-POWER	2GB	PC3-8500 (DDR3-1066)	IOYT3NO	SP002GBSTU106S02 1.5V [128Mx8b/256Mx64b,CL=7-7-7-20]	Pass
45	Transcend	SEC	1GB	PC3-8500 (DDR3-1066)	K4B1G0846D	TS128MSK64V1U 1.5V±0.75 [128Mx8bits/128Mx64bits,CL=6,7,8]	Pass
46	Kingston	ELPIDA	1GB	PC3-8500 (DDR3-1066)	J1108BABG-DJ-E	KVR1066D3S7/1G 1.5V [128Mx8bits/128Mx64bits,CL=7-7-7-20]	Pass

2.3 DDR3 SO-DIMM Test Procedures:

Procedure:

- (i) Install O.S.
- (ii) Check Memory information & specification with CPU-Z.
- (iii) Run 3DMark11 Professional Edition Ver.1.0.3 BenchMark - 3 times.
- (iv) Run 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: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Kingston / SV200S37A/64G SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: Overnight looping under 11hours	P801	Pass
2	Apacer (75.C93DL.G000C 1.35V/1.5V) [512Mx8b-x16/1024Mx64b,CL=11] / Micron (2ED27-D9PCP) / PC3-12800 (DDR3L-1600) / 8GB *1	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P765	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 *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Kingston / SV200S37A/64G SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P792	Pass
4	Apacer (78.B2GCJAF10C 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Hynix (H5TQ2G83BFR PBC) / PC3-12800 (DDR3-1600) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Kingston / SV200S37A/64G SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P801	Pass
5	Hynix (HMT351S6BFR8C-PBNO 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Hynix (H5TQ2G83BFR PBC) / PC3-12800 (DDR3-1600) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Plextor / PX-64M2S-04 SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P1304	Pass
6	ADATA (SU3S1600C4G11-B 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / ELPIDA (J2108BCSE-GN-F) / PC3-12800 (DDR3-1600) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Kingston / SV200S37A/64G SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Summary: Overnight looping under 11hours	P803	Pass
7	INNODISK (M3SP-4GMJDLOC-M 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=9] / Micron (1XM77-D9PFJ) / PC3-12800 (DDR3L-1600) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST9500420ASG SATA2 NCQ 500GB/2.5"/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P1301	Pass

No.	DDR3 Module	Test Environment	3DMark Score	Result
8	Apacer (75.B83DL.G000C 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Micron (2DM77-D9PFJ) / PC3-12800 (DDR3L-1600) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: TEAM / TG060GS25AS2M SATA3 60GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P1041	Pass
9	Crucial (CT51264BF160B.16FMR (MT16KTF51264HZ-1G6M1) 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=11-11-11-30] / Micron (2RM77D9PFJ) / PC3-12800 (DDR3L-1600) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD7500BPVT-22HXZT1 SATA2 NCQ 750GB/2.5"/5400RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P1040	Pass
10	Hynix (HMT325S6BFR8C-PBNO 1.5V) [256Mx8b-x8/256Mx64b,CL=11] / Hynix (H5TQ2G83BFR PBC) / PC3-12800 (DDR3-1600) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST9320325AS SATA SATA2 NCQ 320GB/2.5"/5400RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1035	Pass
11	Transcend (JJM11660000KSN--22G 1.5V) [256Mx8b-x8/256Mx64b,CL=11] / Transcend (TK483PCW3-T1125) / PC3-12800 (DDR3-1600) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Kingston / SV200S37A/64G SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1292	Pass
12	INNODISK (M3SP-2GMJCL0C-M 1.35V/1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Micron (1WM77-D9PFJ) / PC3-12800 (DDR3L-1600) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3160813AS SATA2 160GB Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1291	Pass

No.	DDR3 Module	Test Environment	3DMark Score	Result
13	Transcend (TS1GSK64V3H 1.5V) [512Mx8b-x16/1024Mx64b,CL=9] / Micron (1ZD27-D9PBC) / PC3-10600 (DDR3-1333) / 8GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: TEAM / TG060GS25AS2M SATA3 60GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P988	Pass
14	INNODISK (M3SP-8GHSDCN9-M 1.5V) [512Mx8b-x16/1Gx64b,CL=9] / Hynix (H5TQ4G83MFR PBC) / PC3-10600 (DDR3-1333) / 8GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Kingston / SV200S37A/64G SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P766	Pass
15	Transcend (TS512MSK64V3N 1.5V) [256Mx8b/512Mx64b, Timings(Max)=9-9-9-24] / Hynix (H5TQ2G83AFR H9C) / PC3-10600 (DDR3-1333) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: WD / WD800AAJS-00PSA0 80GB Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P999	Pass
16	Crucial (CT51264BC1339.16FR 1.5V) [256Mx8b-x16/512Mx64b,CL=9] / Micron (ICD77D9LGK) / PC3-10600 (DDR3-1333) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Transcend / TS32GSSD25S-M SATA2 32GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P1233	Pass
17	Transcend (TS512MSK64V3N-I 1.5V) [256Mx8b-x16/512Mx64b,CL=9] / SEC (K4B2G0846D) PC3-10600 (DDR3-1333) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Transcend / TS60GSSD25D-M SATA2 60GB/2.5" Display: On Board DVD-ROM: Lite-On / IT iHDS118-07 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P998	Pass



No.	DDR3 Module	Test Environment	3DMark Score	Result
18	Transcend (TS512MSK64V3N 1.5V) [256Mx8b-*16/512Mx64b,CL=9] / SEC (K4B2G0846D) / PC3-10600 (DDR3-1333) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD7500BPVT-22HXZT1 SATA2 NCQ 750GB/2.5"/5400RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P996	Pass
19	INNODISK (M3SW-4GHJDCN9-E 1.5V) [256Mx8b-x16/512Mx64b,CL=9] / Hynix (H5TC2G83EFR PBA) / PC3-10600 (DDR3-1333) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST9500420ASG SATA2 NCQ 500GB/2.5"/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P994	Pass
20	Apacer (78.B2GCL4210C 1.35V) [256Mx8b-x16/512Mx64b,CL=9] / ELPIDA (J2108ECSE-DJ-F) / PC3-10600 (DDR3L-1333) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD3200YS SATA2 NCQ 320GB/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P717	Pass
21	Transcend (TS512MSK64W3U 1.35V/1.5V) [256Mx8b-x16/512Mx64b,CL=9] / SEC (K4B2G0846D) / PC3-10600 (DDR3L-1333) / 4GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Seagate / ST9500420ASG SATA2 NCQ 500GB/2.5"/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	P1239	Pass
22	Transcend (TS256MSK64V3U 1.5V) [128Mx8b-*16/256Mx64b,CL=9] / ELPIDA (J1108BFBG-DJ-F) / PC3-10600 (DDR3-1333) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: TEAM / TG060GS25AS2M SATA3 60GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P776	Pass

No.	DDR3 Module	Test Environment	3DMark Score	Result
23	Crucial (CT25664BC1339.8FD 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Micron (OMD12D9LGK) / PC3-10600 (DDR3-1333) / 2GB *1	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1 (Single channel) SATA HDD: WD / WD7500BPVT-22HXZT1 SATA2 NCQ 750GB/2.5"/5400RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 Test Summary: Overnight looping under 11hours	P714	Pass
24	Transcend (TS256MSK64V3N 1.5V) [256Mx8b-*8/256Mx64b,CL=9] / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 2GB *1	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: WD / WD7500BPVT-22HXZT1 SATA2 NCQ 750GB/2.5"/5400RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1 Test Summary: Overnight looping under 13hours	P710	Pass
25	Transcend (TS256MSK64V3N-I 1.5V) [256Mx8b-*8/256Mx64b,CL=9] / SEC (K4B2G0846D) / PC3-10600(DDR3-1333) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD7500BPVT-22HXZT1 SATA2 NCQ 750GB/2.5"/5400RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P991	Pass
26	Transcend (TS256MSK64V3N 1.5V) [256Mx8b-*8/256Mx64b,CL=9] / SEC (K4B2G0846D) / PC3-10600 (DDR3-1333) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Transcend / TS64GSSD500 16GB SATA2/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P992	Pass
27	INNODISK (M3SW-2GHJCCN9-E 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Hynix (H5TC2G83EFR PBA) / PC3-10600(DDR3-1333) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD7500BPVT-22HXZT1 SATA2 NCQ 750GB/2.5"/5400RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P990	Pass

No.	DDR3 Module	Test Environment	3DMark Score	Result
28	Apacer (78.A2GCL4200C 1.35V) [256Mx8b-x8/256Mx64b,CL=9] / ELPIDA (J2108ECSE-DJ-F) / PC3-10600 (DDR3L-1333) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Maxtor / STM3160813AS SATA2 160GB Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1224	Pass
29	Transcend (TS256MSK64W3N 1.35V/1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Hynix (H5TQ2G83BFR-H9C) / PC3-10600 (DDR3L-1333) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Plextor / PX-64M2S-04 SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1222	Pass
30	Crucial (CT12864BC1339.4FD 1.5V) [128Mx16b-x4/128Mx64b,CL=9] / Micron (0NDI2-D9LGQ) / PC3-10600 (DDR3-1333) / 1GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD7500BPVT-22HXZT1 SATA2 NCQ 750GB/2.5"/5400RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1219	Pass
31	Apacer (AM5D5808MIJSBG 1.5V) / Apacer (AM5D5808MIJSBG 1.5V) / PC3-8500 (DDR3-1066) / 2GB *1	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: ADATA / ASE1032GSAMPL SATA2 32GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P644	Pass
32	Transcend (TS256MSK64V1U 1.5V±0.75) [128Mx8bits/256Mx64bits,CL=7] / ELPIDA (J1108BASE-AE-E) / PC3-8500 (DDR3-1066) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3160813AS SATA2 160GB Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1129	Pass

No.	DDR3 Module	Test Environment	3DMark Score	Result
33	Kingston (KVR1066D3S7/2G 1.5V) [128Mx8bits/256Mx64bits,CL=7-7-7-20] / ELPIDA (J1108BAG-DJ-E) / PC3-8500 (DDR3-1066) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Memoright / MRV022F032GTS251 SATA2 32GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1131	Pass
34	SILICON (SP002GBSTU106S02 1.5V) [128Mx8b/256Mx64b,CL=7-7-7-20] / S-POWER (IOYT3NO) / PC3-8500 (DDR3-1066) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD800AAJS-00PSA0 80GB Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P931	Pass
35	Kingston (KVR1066D3S7/1G 1.5V) [128Mx8bits/128Mx64bits,CL=7-7-7-20] / ELPIDA (J1108BAG-DJ-E) / PC3-8500 (DDR3-1066) / 1GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: ADATA / AS396S-60GM-C SATA2 60GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	P1131	Pass

- (i) Install O.S.
- (ii) Check Memory information & specification with CPU-Z.
- (iii) Run 3DMark 2006 Professional Edition Build Ver.1.2.0 BenchMark - 3 times.
- (iv) Run S3/S4/S5 - 3 times.

No.	DDR3 Module	Test Environment	3DMark Score	Result
1	ADATA (AD3S1600C4G11-BMIK 1.5V) [256Mx8b-x16/512Mx64b,CL=11] / Micron (2GK12-D9PSH) / PC3-12800 (DDR3-1600) / 4GB *1	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-2 (Single channel) SATA HDD: Seagate / ST9500420ASG SATA2 NCQ 500GB/2.5"/7200RPM Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows XP Professional 32Bit (English) & SP3 Test Summary: Overnight looping under 39hours	4590	Pass
2	ADATA (EL74C1B08 10281590 1.5V) [256Mx8b-x8/256Mx64b,CL=11-11-11] / ELPIDA (J2108BCSE-GN-F) / PC3-12800 (DDR3-1600) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Kingston / SV200S37A/64G SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows XP Professional 32Bit (English) & SP3	6008	Pass
3	Hynix (HMT312S6BFR6C-PBNO 1.5V) [128Mx16b-x4/128Mx64b,CL=11] / Hynix (H5TQ2G63BFR PBC) / PC3-12800 (DDR3-1600) / 1GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: TEAM / TG060GS25AS2M SATA3 60GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows XP Professional 32Bit (English) & SP3	6844	Pass
4	DSL (D3SH56082XH15AA 1.5V) / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 4GB *1	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ) / 2.7GHz DIMM Slot: DIMM-1 (Single channel) SSD: Kingston / SV200S37A/64G SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows XP Professional 32Bit (English) & SP3 Test Summary: Overnight looping under 14hours	4001	Pass
5	ELPIDA (SP002GBSTU133S02 1.5V) [128Mx8b/256Mx64b,CL=9-9-9-24] / SILICON (J1108BAG-DJ-E) / PC3-10600 (DDR3-1333) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD800AAJS-00PSA0 80GB Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows XP Professional 32Bit (English) & SP3	5925	Pass

No.	DDR3 Module	Test Environment	3DMark Score	Result
6	DSL (D3SH56081XH15AA 1.5V) [256Mx8b-x8/256Mx64b,CL=9] / Hynix (H5TQ2G83BFR H9C) / PC3-10600 (DDR3-1333) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Transcend / TS64GSSD500 SATA2 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows XP Professional 32Bit (English) & SP3	6467	Pass
7	INNODISK (M3SN-1GHFCC09-D 1.5V) [128Mx8b-*8/128Mx64b,CL=9] / Hynix (H5TQ1G83DFR H9C) / PC3-10600 (DDR3-1333) / 1GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD7500BPVT-22HXZT1 SATA2 NCQ 750GB/2.5"/5400RPM Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows XP Professional 32Bit (English) & SP3	6469	Pass
8	DSL (D3SH28081XH15AA 1.5V) [128Mx8b-*8/128Mx64b,CL=9] / Hynix (H5TQ1G83BFR H9C) / PC3-10600 (DDR3-1333) / 1GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Kingston / SV200S37A/64G SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows XP Professional 32Bit (English) & SP3	5731	Pass
9	Transcend (TS128MSK64V3U 1.5V) [128Mx8b-x8/128Mx64b,CL=9] / SEC (K4B1G0846G) / PC3-10600 (DDR3-1333) / 1GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-272F (Dual Core/Bulldozer-B0/RE272FDEC23HJ) / 2.7GHz DIMM Slot: DIMM-1/2 (Dual channel) SSD: Kingston / SV200S37A/64G SATA3 64GB/2.5" Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows XP Professional 32Bit (English) & SP3	5742	Pass
10	ADATA (AD31066002GOS (AD7YG1B16723) 1.5V) [128Mx8bits/256Mx64bits,CL=7-7-7-20] / ADATA (AD30908C8D-18GG) / PC3-8500 (DDR3-1066) / 2GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-460H (Quad Core/Bulldozer-B0/RE460HDEC44HJ) / 1.9GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: WD / WD800AAJS-00PSA0 80GB Display: On Board DVD-ROM: Pioneer / DVD-230DW 18X SATA Power: Delta / GPS-500BB 500W O.S.: Windows XP Professional 32Bit (English) & SP3	5837	Pass

11	Transcend (TS128MSK64V1U 1.5V±0.75) [128Mx8bits/128Mx64bits,CL=6,7,8] / SEC (K4B1G0846D) / PC3-8500 (DDR3-1066) / 1GB *2	M/B: CM901-B Rev.A (0A1) & COM331-B Rev.A (0A2) M/B BIOS: AMI-UEFI 02/08/2013 M/B Driver: Demo Feb/20/2013 CPU: AMD / Embedded R-Series R-464L (Quad Core/Bulldozer-B0/RE464LDEC44HJ) / 2.3GHz DIMM Slot: DIMM-1/2 (Dual channel) SATA HDD: Maxtor / STM3160813AS SATA2 160GB Display: On Board DVD-ROM: Pioneer / DVD-231DW 18X SATA Power: Jagier / KY-580ATX 480W O.S.: Windows XP Professional 32Bit (English) & SP3	6174	Pass
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*Each memory module tested at room temperature.