

1. Qualified Vendor List: 021/0A1/0A3

1.1 CPU 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.	CPU	Type	Result
1	Intel / 2.3GHz	Core i7-3610QE (Ivy Bridge/E0-QC0Z) / PGA988B	Pass
2	Intel / 2.7GHz	Core i7-2620M (Sandy Bridge/J1-SR03F) / PGA988B	Pass
3	Intel / 2.2GHz	Core i7-2720QM (Sandy Bridge/D2-SR014) / PGA988B	Pass
4	Intel / 2.1GHz	Core i7-2710QE (Sandy Bridge/D2-SR02T) / PGA988B	Pass
5	Intel / 2.6GHz	Core i5-2540M (Sandy Bridge/J1-SR044) / PGA988B	Pass
6	Intel / 2.5GHz	Core i5-2520M (Sandy Bridge/J1-SR048) / PGA988B	Pass
7	Intel / 2.5GHz	Core i5-2510E (Sandy Bridge/D2-SR02U) / PGA988B	Pass
8	Intel / 2.2GHz	Core i3-2330E (Sandy Bridge/J1-SR02V) / PGA988B	Pass
9	Intel / 2.1GHz	Core i3-2310M (Sandy Bridge/J1-SR04R) / PGA988B	Pass

1.2 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	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	Apacer	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	78.B2GCJAF10C 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
4	Hynix	Hynix	4GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	HMT351S6BFR8C-PBNO 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
5	A-Data	ELPIDA	4GB	PC3-12800 (DDR3-1600)	J2108BCSE-GN-F	SU3S1600C4G11-B 1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
6	INNODISK	Micron	4GB	PC3-12800 (DDR3L-1600)	1XM77-D9PFJ	M3SP-4GMJDL0C-M 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
7	Apacer	Micron	4GB	PC3-12800 (DDR3L-1600)	2DM77-D9PFJ	75.B83DL.G000C 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=11]	Pass
8	Hynix	Hynix	2GB	PC3-12800 (DDR3-1600)	H5TQ2G83BFR PBC	HMT325S6BFR8C-PBNO 1.5V [256Mx8b-x8/256Mx64b,CL=11]	Pass
9	A-Data	ELPIDA	2GB	PC3-12800 (DDR3-1600)	J2108BCSE-GN-F	EL74C1B08 10281590 1.5V [256Mx8b-x8/256Mx64b,CL=11-11-11]	Pass
10	INNODISK	Micron	2GB	PC3-12800 (DDR3L-1600)	1WM77-D9PFJ	M3SP-2GMJCL0C-M 1.35V/1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
11	Hynix	Hynix	1GB	PC3-12800 (DDR3-1600)	H5TQ2G63BFR PBC	HMT312S6BFR6C-PBNO 1.5V [128Mx16b-x4/128Mx64b,CL=11]	Pass
12	Panram	NB	8GB	PC3-10600 (DDR3-1333)	K2BASESF	200D38G328 1.5V [512Mx8b-x16/1024Mx64b,CL=9]	Pass
13	Transcend	Micron	8GB	PC3-10600 (DDR3-1333)	1ZD27-D9PBC	TS1GSK64V3H 1.5V [512Mx8b-x16/1024Mx64b,CL=9]	Pass
14	A-Data	ELPIDA	8GB	PC3-10600 (DDR3-1333)	J4208BBBG-GN-F	EL7311D167HZ1 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)	K4B2G0846C	TS512MSK64V3N-I 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass
20	Transcend	Hynix	4GB	PC3-10600 (DDR3-1333)	H5TQ2G83CFR H9C	TS512MSK64V3N 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass
21	Transcend	SEC	4GB	PC3-10600 (DDR3-1333)	K4B2G0846C	TS512MSK64V3N 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
22	Transcend	Micron	4GB	PC3-10600 (DDR3-1333)	IBD22D9LGK	TS512MSK64V3N 1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
23	Apacer	ELPIDA	4GB	PC3-10600 (DDR3L-1333)	J2108ECSE-DJ-F	78.B2GCL4210C 1.35V [256Mx8b-x16/512Mx64b,CL=9]	Pass
24	Transcend	Hynix	4GB	PC3-10600 (DDR3L-1333)	H5TQ2G83BFR-H9C	TS512MSK64W3N 1.35V/1.5V [256Mx8b-x16/512Mx64b,CL=9]	Pass
25	G.SKILL	Nanya	2GB	PC3-10600 (DDR3-1333)	NT5CB128M8AN-CG	F3-10666CL9S-2GBSQ 1.5V [128Mx8b/256Mx64b,CL=9-9-9-24]	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	SEC	2GB	PC3-10600 (DDR3-1333)	K4B2G0846C	TS256MSK64V3N-I 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
31	Transcend	Micron	2GB	PC3-10600 (DDR3-1333)	OXD72D9LGK	TS256MSK64V3N 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
32	Transcend	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83BFR H9C	TS256MSK64V3N 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
33	Transcend	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83CFR H9C	TS256MSK64V3N 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
34	Transcend	SEC	2GB	PC3-10600 (DDR3-1333)	K4B2G0846C	TS256MSK64V3N 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
35	Apacer	Hynix	2GB	PC3-10600 (DDR3-1333)	H5TQ2G83CFR H9C	75.A83C7.G040C 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
36	Apacer	ELPIDA	2GB	PC3-10600 (DDR3L-1333)	J2108ECSE-DJ-F	78.A2GCL4200C 1.35V [256Mx8b-x8/256Mx64b,CL=9]	Pass
37	Transcend	Hynix	2GB	PC3-10600 (DDR3L-1333)	H5TQ2G83BFR-H9C	TS256MSK64W3N 1.35V/1.5V [256Mx8b-x8/256Mx64b,CL=9]	Pass
38	Transcend	Hynix	1GB	PC3-10600 (DDR3-1333)	H5TQ1G83TFR H9C	TS128MSK64V3U 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass



No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
39	DSL	Hynix	1GB	PC3-10600 (DDR3-1333)	H5TQ1G83BFR H9C	D3SH28081XH15AA 1.5V [128Mx8b-*8/128Mx64b,CL=9]	Pass
40	Apacer	ELPIDA	1GB	PC3-10600 (DDR3-1333)	J1108BFBG-DJ-F	78.02GC6.420 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass
41	Crucial	Micron	1GB	PC3-10600 (DDR3-1333)	0NDI2-D9LGQ	CT12864BC1339.4FD 1.5V [128Mx16b-x4/128Mx64b,CL=9]	Pass
42	Transcend	Hynix	1GB	PC3-10600 (DDR3-1333)	H5TQ1G83TFR H9C	TS128MSK64V3U 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass
43	Transcend	SEC	1GB	PC3-10600 (DDR3-1333)	K4B1G0846G	TS128MSK64V3U 1.5V [128Mx8b-x8/128Mx64b,CL=9]	Pass
44	Transcend	Hynix	4GB	PC3-8500 (DDR3-1066)	H5TQ2G83AFRH9C	TS512MSK64V1N 1.5V [256Mx8b/512Mx64b,CL=7-7-7-20]	Pass
45	Kingston	ELPIDA	4GB	PC3-8500 (DDR3-1066)	J2108BASE-DJ-F	KVR1066D3S7/4G 1.5V [128Mx8bits/128Mx64bits,CL=7]	Pass
46	Apacer	Apacer	2GB	PC3-8500 (DDR3-1066)	AM5D5808MIJSBG 1.5V	AM5D5808MIJSBG 1.5V	Pass
47	G.SKILL	Nanya	2GB	PC3-8500 (DDR3-1066)	NT5CB128M8AN-CG	F3-8500CL7D-4GBSQ 1.5V [128Mx8b/256Mx64b,CL=7-7-7-20]	Pass
48	Transcend	ELPIDA	2GB	PC3-8500 (DDR3-1066)	J1108BASE-AE-E	TS256MSK64V1U 1.5V±0.75 [128Mx8bits/256Mx64bits,CL=7]	Pass
49	Kingston	ELPIDA	2GB	PC3-8500 (DDR3-1066)	J1108BABG-DJ-E	KVR1066D3S7/2G 1.5V [128Mx8bits/256Mx64bits,CL=7-7-7-20]	Pass
50	A-Data	A-Data	2GB	PC3-8500 (DDR3-1066)	AD30908C8D-18GG	AD31066002GOS (AD7YG1B16723) 1.5V [128Mx8bits/256Mx64bits,CL=7-7-7-20]	Pass
51	SILICON	S-POWER	2GB	PC3-8500 (DDR3-1066)	IOYT3NO	SP002GBSTU106S02 1.5V [128Mx8b/256Mx64b,CL=7-7-7-20]	Pass
52	Apacer	Apacer	1GB	PC3-8500 (DDR3-1066)	AM5D5808MIJSBG 1.5V	AM5D5808MIJSBG 1.5V	Pass
53	Transcend	SEC	1GB	PC3-8500 (DDR3-1066)	K4B1G0846D	TS128MSK64V1U 1.5V±0.75 [128Mx8bits-*8/128Mx64bits,CL=6,7,8]	Pass
54	Kingston	ELPIDA	1GB	PC3-8500 (DDR3-1066)	J1108BABG-DJ-E	KVR1066D3S7/1G 1.5V [128Mx8bits/128Mx64bits,CL=7-7-7-20]	Pass



No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
55	A-Data	A-Data	1GB	PC3-8500 (DDR3-1066)	AD30908C8D-18GG	AD31066001GOS (AD7YG1A08703) 1.5V [128Mx8bits/128Mx64bits,CL=7-7-20]	Pass

2. Qualified Vendor List: 0A3

2.1 CPU Test:

Procedure:

- (i) Install O.S.
- (ii) Check CPU information & specification with CPU-Z.
- (iii) Run 3DMark 2006 Professional Edition Build Ver.1.2.0 BenchMark - 3 times.
- (iv) Check CPU temperature in the BIOS after running 3DMark.
- (v) Run S1/S3/S4/S5 - 3 times.

No.	CPU	Type	CPU Temp.	Result
1	Intel / 2.6GHz	Core i7-3720QM (Ivy Bridge/E1-SR0ML) / PGA988B	35 °C	Pass
2	Intel / 2.2GHz	Core i7-2720QM (Sandy Bridge/D2-SR014) / PGA988B	38 °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.
- (iv) 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	ADATA	ELPIDA	2GB	PC3-12800 (DDR3-1600)	J2108BCSE-GN-F	EL74C1B08 10281590 1.5V [256Mx8b-x8/256Mx64b,CL=11-11-11]	Pass
3	Hynix	Hynix	1GB	PC3-12800 (DDR3-1600)	H5TQ2G63BFR PBC	HMT312S6BFR6C-PBNO 1.5V [128Mx16b-x4/128Mx64b,CL=11]	Pass
4	INNODISK	Hynix	8GB	PC3-10600 (DDR3-1333)	H5TQ4G83MFR PBC	M3SP-8GHSDCN9-M 1.5V [512Mx8b-x16/1Gx64b,CL=9]	Pass

No.	Brand	Chip	Size	Type	Chip Model No.	Vendor Part No.	Result
5	Transcend	SEC	4GB	PC3-10600 (DDR3-1333)	K4B2G0846C	TS512MSK64V3N 1.5V [256Mx8b-*16/512Mx64b,CL=9]	Pass
6	Apacer	ELPIDA	4GB	PC3-10600 (DDR3L-1333)	J2108ECSE-DJ-F	78.B2GCL4210C 1.35V [256Mx8b-*16/512Mx64b,CL=9]	Pass
7	Transcend	SEC	2GB	PC3-10600 (DDR3-1333)	K4B2G0846C	TS256MSK64V3N 1.5V [256Mx8b-*8/256Mx64b,CL=9]	Pass
8	SILICON	S-POWER	2GB	PC3-8500 (DDR3-1066)	IOYT3NO	SP002GBSTU106S02 1.5V [128Mx8b/256Mx64b,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 3DMark 2006 Professional Edition Build Ver.1.2.0 BenchMark - 3 times.
- (iv) 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	CPU: Intel / Core i7-2720QM (SandyBridge/D2-SR014) / 2.2GHz DIMM Slot: Dimm-1/2 SATA HDD: WD / WD1200BEVS SATA1 NCQ (120GB,2.5",5400RPM,8MB Cache) Display: On Board DVD-ROM: Lite-On / It/iHDS118-07 18X SATA Power: Delta / GPS-500BB 500W LCD: GreatWall / L929 18.5" O.S.: Windows 7 Ultimate 64Bit (English) & SP1 Test Result: Overnight test is PASS under 11 hours	4083	Pass
2	ADATA (EL74C1B08 10281590 1.5V) [256Mx8b-x8/256Mx64b,CL=11-11-11] / ELPIDA (J2108BCSE-GN-F) / PC3-12800 (DDR3-1600) / 2GB *1	CPU: Intel / Core i7-3720QM (IvyBridge/E1-SR0ML) / 2.6GHz DIMM Slot: Dimm-1 SATA HDD: WD / WD1200BEVS SATA1 NCQ (120GB,2.5",5400RPM) Display: On Board DVD-RW: Lite-On / It/iHAS524 SATA Power: Delta / GPS-500BB C 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	4516	Pass

No.	DDR3 Module	Test Environment	3DMark Score	Result
3	Hynix (HMT312S6BFR6C-PBNO 1.5V) [128Mx16b-x4/128Mx64b,CL=11] / Hynix (H5TQ2G63BFR PBC) / PC3-12800 (DDR3-1600) / 1GB *1	CPU: Intel / Core i7-3720QM (IvyBridge/E1-SR0ML) / 2.6GHz DIMM Slot: Dimm-1 SATA HDD: Seagate / ST3640323AS SATA2 NCQ 640GB Display: On Board DVD-RW: Lite-On / It/iHAS524 SATA Power: Delta / GPS-500BB C 500W O.S.: Windows XP Professional 32Bit (English) & SP3 Test Result: Running overnight looping for 10 hours and 40 minutes	3668	Pass
4	INNODISK (M3SP-8GHSDCN9-M 1.5V) [512Mx8b-x16/1Gx64b,CL=9] / Hynix (H5TQ4G83MFR PBC) / PC3-10600 (DDR3-1333) / 8GB *1	CPU: Intel / Core i7-3720QM (IvyBridge/E1-SR0ML) / 2.6GHz DIMM Slot: Dimm-2 SATA HDD: Seagate / ST3640323AS SATA2 NCQ 640GB Display: On Board DVD-RW: Lite-On / It/iHAS524 SATA Power: Delta / GPS-500BB C 500W O.S.: Windows XP Professional 64Bit Edition (English) & SP1	3364	Pass
5	Transcend (TS512MSK64V3N 1.5V) [256Mx8b-*16/512Mx64b,CL=9] / SEC (K4B2G0846C) / PC3-10600 (DDR3-1333) / 4GB *2	CPU: Intel / Core i7-2720QM (SandyBridge/D2-SR014) / 2.2GHz DIMM Slot: Dimm 1/2 SATA HDD: WD / WD1200BEVS SATA1 NCQ (120GB,2.5",5400RPM) Display: On Board DVD-ROM: Lite-On / It/iHAS524 SATA Power: Delta / GPS-500BB C 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	4207	Pass
6	Apacer (78.B2GCL4210C 1.35V) [256Mx8b-x16/512Mx64b,CL=9] / ELPIDA (J2108ECSE-DJ-F) / PC3-10600 (DDR3L-1333) / 4GB *2	CPU: Intel / Core i7-3720QM (IvyBridge/E1-SR0ML) / 2.6GHz DIMM Slot: Dimm-1/2 SATA HDD: Seagate / ST3640323AS SATA2 NCQ 640GB Display: On Board DVD-ROM: Lite-On / It/iHAS524 SATA Power: Delta / GPS-500BB C 500W O.S.: Windows 7 Ultimate 64Bit (English) & SP1	6656	Pass

No.	DDR3 Module	Test Environment	3DMark Score	Result
7	Transcend (TS256MSK64V3N 1.5V) [256Mx8b*8/256Mx64b,CL=9] / SEC (K4B2G0846C) / PC3-10600 (DDR3-1333) / 2GB *2	CPU: Intel / Core i7-3720QM (IvyBridge/E1-SR0ML) / 2.6GHz DIMM Slot: Dimm-1/2 SATA HDD: WD / WD1200BEVS SATA1 NCQ (120GB,2.5",5400RPM) Display: On Board DVD-ROM: Lite-On / It/iHAS524 SATA Power: Delta / GPS-500BB C 500W O.S.: Windows XP Professional 32Bit (English) & SP3	4824	Pass
8	SILICON (SP002GBSTU106S02 1.5V) [128Mx8b/256Mx64b,CL=7-7-7-20] / S-POWER (IOYT3NO) / PC3-8500 (DDR3-1066) / 2GB *2	CPU: Intel / Core i7-2720QM (SandyBridge/D2-SR014) / 2.2GHz DIMM Slot: Dimm-1/2 SATA HDD: Seagate / ST3640323AS SATA2 NCQ 640GB Display: On Board DVD-RW: Lite-On / It/iHAS524 SATA Power: Delta / GPS-500BB C 500W O.S.: Windows 7 Ultimate 32Bit (English) & SP1	4136	Pass