

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 |

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 | Pass |
| 2 | Apacer | Micron | 8GB | PC3-12800 (DDR3L-1600) | 2ED27-D9PCP | 75.C93DL.G000C 1.35V/1.5V | Pass |
| 3 | Apacer | Hynix | 4GB | PC3-12800 (DDR3-1600) | H5TQ2G83BFR PBC | 78.B2GC.JAF10C 1.5V | Pass |
| 4 | Hynix | Hynix | 4GB | PC3-12800 (DDR3-1600) | H5TQ2G83BFR PBC | HMT351S6BFR8C-PBNO 1.5V | Pass |
| 5 | A-Data | ELPIDA | 4GB | PC3-12800 (DDR3-1600) | J2108BCSE-GN-F | SU3S1600C4G11-B 1.5V | Pass |
| 6 | INNODISK | Micron | 4GB | PC3-12800 (DDR3L-1600) | 1XM77-D9PFJ | M3SP-4GMJDL0C-M 1.35V/1.5V | Pass |
| 7 | Apacer | Micron | 4GB | PC3-12800 (DDR3L-1600) | 2DM77-D9PFJ | 75.B83DL.G000C 1.35V/1.5V | Pass |
| 8 | Hynix | Hynix | 2GB | PC3-12800 (DDR3-1600) | H5TQ2G83BFR PBC | HMT325S6BFR8C-PBNO 1.5V | Pass |
| 9 | A-Data | ELPIDA | 2GB | PC3-12800 (DDR3-1600) | J2108BCSE-GN-F | EL74C1B08 10281590 1.5V | Pass |
| 10 | INNODISK | Micron | 2GB | PC3-12800 (DDR3L-1600) | 1WM77-D9PFJ | M3SP-2GMJCL0C-M 1.35V/1.5V | Pass |
| 11 | Hynix | Hynix | 1GB | PC3-12800 (DDR3-1600) | H5TQ2G63BFR PBC | HMT312S6BFR6C-PBNO 1.5V | Pass |
| 12 | Panram | NB | 8GB | PC3-10600 (DDR3-1333) | K2BASESF | 200D38G328 1.5V | Pass |
| 13 | Transcend | Micron | 8GB | PC3-10600 (DDR3-1333) | 1ZD27-D9PBC | TS1GSK64V3H 1.5V | Pass |
| 14 | A-Data | ELPIDA | 8GB | PC3-10600 (DDR3-1333) | J4208BBBG-GN-F | EL7311D167HZ1 1.5V | Pass |
| 15 | Transcend | Hynix | 4GB | PC3-10600 (DDR3-1333) | H5TQ2G83AFR H9C | TS512MSK64V3N 1.5V | Pass |
| 16 | Kingston | ELPIDA | 4GB | PC3-10600 (DDR3-1333) | J2108BASE-DJ-F | KVR1333D3S9/4G 1.5V | 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 | Pass |
| 19 | Transcend | SEC | 4GB | PC3-10600 (DDR3-1333) | K4B2G0846C | TS512MSK64V3N-I 1.5V | Pass |
| 20 | Transcend | Hynix | 4GB | PC3-10600 (DDR3-1333) | H5TQ2G83CFR H9C | TS512MSK64V3N 1.5V | Pass |

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|-----|-----------|---------|------|---------------------------|-----------------|--------------------------|--------|
| 21 | Transcend | SEC | 4GB | PC3-10600 (DDR3-1333) | K4B2G0846C | TS512MSK64V3N 1.5V | Pass |
| 22 | Transcend | Micron | 4GB | PC3-10600 (DDR3-1333) | IBD22D9LGK | TS512MSK64V3N 1.5V | Pass |
| 23 | Apacer | ELPIDA | 4GB | PC3-10600 (DDR3-1333) | J2108ECSE-DJ-F | 78.B2GCL4210C 1.35V | Pass |
| 24 | Transcend | Hynix | 4GB | PC3-10600 (DDR3-1333) | H5TQ2G83BFR-H9C | TS512MSK64W3N 1.35V/1.5V | Pass |
| 25 | G.SKILL | Nanya | 2GB | PC3-10600 (DDR3-1333) | NT5CB128M8AN-CG | F3-10666CL9S-2GBSQ 1.5V | Pass |
| 26 | ELPIDA | SILICON | 2GB | PC3-10600 (DDR3-1333) | J1108BABG-DJ-E | SP002GBSTU133S02 1.5V | Pass |
| 27 | DSL | Hynix | 2GB | PC3-10600 (DDR3-1333) | H5TQ2G83BFR H9C | D3SH56081XH15AA 1.5V | Pass |
| 28 | Transcend | ELPIDA | 2GB | PC3-10600 (DDR3-1333) | J1108BFBG-DJ-F | TS256MSK64V3U 1.5V | Pass |
| 29 | Transcend | SEC | 2GB | PC3-10600 (DDR3-1333) | K4B1G0846F | TS256MSK64V3U 1.5V | Pass |
| 30 | Crucial | Micron | 2GB | PC3-10600 (DDR3-1333) | OMD12D9LGK | CT25664BC1339.8FD 1.5V | Pass |
| 31 | Transcend | SEC | 2GB | PC3-10600 (DDR3-1333) | K4B2G0846C | TS256MSK64V3N-I 1.5V | Pass |
| 32 | Transcend | Micron | 2GB | PC3-10600 (DDR3-1333) | OXD72D9LGK | TS256MSK64V3N 1.5V | Pass |
| 33 | Transcend | Hynix | 2GB | PC3-10600 (DDR3-1333) | H5TQ2G83BFR H9C | TS256MSK64V3N 1.5V | Pass |
| 34 | Transcend | Hynix | 2GB | PC3-10600 (DDR3-1333) | H5TQ2G83CFR H9C | TS256MSK64V3N 1.5V | Pass |
| 35 | Transcend | SEC | 2GB | PC3-10600 (DDR3-1333) | K4B2G0846C | TS256MSK64V3N 1.5V | Pass |
| 36 | Apacer | Hynix | 2GB | PC3-10600 (DDR3-1333) | H5TQ2G83CFR H9C | 75.A83C7.G040C 1.5V | Pass |
| 37 | Apacer | ELPIDA | 2GB | PC3-10600 (DDR3L-1333) | J2108ECSE-DJ-F | 78.A2GCL4200C 1.35V | Pass |
| 38 | Transcend | Hynix | 2GB | PC3-10600 (DDR3L-1333) | H5TQ2G83BFR-H9C | TS256MSK64W3N 1.35V/1.5V | Pass |
| 39 | Transcend | Hynix | 1GB | PC3-10600 (DDR3-1333) | H5TQ1G83TFR H9C | TS128MSK64V3U 1.5V | Pass |
| 40 | DSL | Hynix | 1GB | PC3-10600 (DDR3-1333) | H5TQ1G83BFR H9C | D3SH28081XH15AA 1.5V | Pass |
| 41 | Apacer | ELPIDA | 1GB | PC3-10600 (DDR3-1333) | J1108BFBG-DJ-F | 78.02GC6.420 1.5V | Pass |
| 42 | Crucial | Micron | 1GB | PC3-10600 (DDR3-1333) | 0NDI2-D9LGQ | CT12864BC1339.4FD 1.5V | Pass |
| 43 | Transcend | Hynix | 1GB | PC3-10600 (DDR3-1333) | H5TQ1G83TFR H9C | TS128MSK64V3U 1.5V | Pass |

| No. | Brand | Chip | Size | Type | Chip Model No. | Vendor Part No. | Result |
|-----|-----------|---------|------|--------------------------|------------------------------|--------------------------------------|--------|
| 44 | Transcend | SEC | 1GB | PC3-10600 (DDR3-1333) | K4B1G0846G | TS128MSK64V3U 1.5V | Pass |
| 45 | Transcend | Hynix | 4GB | PC3-8500 (DDR3-1066) | H5TQ2G83AFRH9C | TS512MSK64V1N 1.5V | Pass |
| 46 | Kingston | ELPIDA | 4GB | PC3-8500 (DDR3-1066) | J2108BASE-DJ-F | KVR1066D3S7/4G 1.5V | Pass |
| 47 | Apacer | Apacer | 2GB | PC3-8500 (DDR3-1066) | AM5D5808MIJSBG 1.5V | AM5D5808MIJSBG 1.5V | Pass |
| 48 | G.SKILL | Nanya | 2GB | PC3-8500 (DDR3-1066) | NT5CB128M8AN-CG | F3-8500CL7D-4GBSQ 1.5V | Pass |
| 49 | Transcend | ELPIDA | 2GB | PC3-8500 (DDR3-1066) | J1108BASE-AE-E | TS256MSK64V1U 1.5V±0.75 | Pass |
| 50 | Kingston | ELPIDA | 2GB | PC3-8500 (DDR3-1066) | J1108BABG-DJ-E | KVR1066D3S7/2G 1.5V | Pass |
| 51 | A-Data | A-Data | 2GB | PC3-8500 (DDR3-1066) | AD30908C8D-18GG | AD31066002GOS (AD7YG1B16723) 1.5V | Pass |
| 52 | SILICON | S-POWER | 2GB | PC3-8500 (DDR3-1066) | IOYT3NO | SP002GBSTU106S02 1.5V | Pass |
| 53 | Apacer | Apacer | 1GB | PC3-8500 (DDR3-1066) | 1066) AM5D5808MIJSBG 1.5V | AM5D5808MIJSBG 1.5V | Pass |
| 54 | Transcend | ELPIDA | 1GB | PC3-8500 (DDR3-1066) | J1108BFBG-DJ-F | TS128MSK64V1U 1.5V | Pass |
| 55 | Transcend | SEC | 1GB | PC3-8500 (DDR3-1066) | K4B1G0846D | TS128MSK64V1U 1.5V±0.75 | Pass |
| 56 | Kingston | ELPIDA | 1GB | PC3-8500 (DDR3-1066) | J1108BABG-DJ-E | KVR1066D3S7/1G 1.5V | Pass |
| 57 | A-Data | A-Data | 1GB | PC3-8500 (DDR3-1066) | AD30908C8D-18GG | AD31066001GOS (AD7YG1A08703) 1.5V | Pass |

*Each memory module tested at room temperature.