

SABERTOOTH 990FX R3.0

DDR3 1333 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | | |
|-----------------|-----------------------|-----------------|-------|------------|-------------------|----------|-----------|--------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| A-DATA | AD63I1B0823EV | 2GB | SS | A-DATA | 3CCA-1509A | - | - | • | • | • |
| A-DATA | AD63I1C1624EV | 4GB | DS | A-DATA | 3CCA-1509A | - | - | • | • | • |
| A-DATA | AXDU1333GC2G9(XMP) | 2GB | SS | - | - | 9-9-9-24 | 1.25~1.35 | • | • | • |
| A-DATA | SU3U1333W8G9(XMP) | 8GB | DS | ELPIDA | J4208BASE-DJ-F | - | - | • | • | • |
| Apacer | 78.A1GC6.9L1 | 2GB | DS | Apacer | AM5D5808FEQSBG | 9 | - | • | • | • |
| Apacer | 78.B1GDE.9L10C | 4GB | DS | Apacer | AM5D5908CEHSBG | 9 | - | • | • | • |
| CORSAIR | CMX8GX3M2A1333C9(XMP) | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.5 | • | • | • |
| CORSAIR | TW3X4G1333C9A | 4GB (2x 2GB) | DS | - | - | 9-9-9-24 | 1.5 | • | • | • |
| G.SKILL | F3-10600CL9D-4GBNT | 4GB (2x 2GB) | DS | G.SKILL | D3 128M8CE9 2GB | 9-9-9-24 | 1.5 | • | • | • |
| G.SKILL | F3-10666CL9D-8GBRL | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.5 | • | • | • |
| G.SKILL | F3-10666CL9D-8GBXL | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.5 | • | • | • |
| GEIL | GB34GB1333C7DC | 4GB(2 x 2GB) | DS | GEIL | GL1L128M88BA15FW | 7-7-7-24 | 1.5 | • | • | • |
| GEIL | GET316GB1333C9QC | 16GB (4x 4GB) | DS | - | - | 9-9-9-24 | 1.5 | • | • | • |
| GEIL | GG34GB1333C9DC | 4GB (2x 2GB) | DS | GEIL | GL1L128M88BA115FW | 9-9-9-24 | 1.3 | • | • | • |
| GEIL | GG34GB1333C9DC | 4GB (2x 2GB) | DS | GEIL | GL1L128M88BA15B | 9-9-9-24 | 1.3 | • | • | • |
| GEIL | GVP34GB1333C9DC | 4GB (2x 2GB) | DS | - | - | 9-9-9-24 | 1.5 | • | • | • |
| GEIL | GVP38GB1333C7QC | 8GB (4x 2GB) | DS | - | - | 7-7-7-24 | 1.5 | • | • | • |
| GEIL | GVP38GB1333C9DC | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.5 | • | • | • |
| Hynix | HMT125U6TFR8A-H9 | 2GB | DS | Hynix | H5TC1G83TFR | - | - | • | • | • |
| KINGMAX | FLFE85F-B8KL9 | 2GB | DS | KINGMAX | KFB8FNLXL-BNF-15A | - | - | • | • | • |
| KINGMAX | FLFE85F-C8KL9 | 2GB | SS | KINGMAX | KFC8FNLBF-GXX-12A | - | - | • | • | • |
| KINGMAX | FLFE85F-C8KL9 | 2GB | SS | KINGMAX | KFC8FNLXF-DXX-15A | - | - | • | • | • |
| KINGMAX | FLFE85F-C8KM9 | 2GB | SS | Kingmax | KFC8FNMXF-BXX-15A | - | - | • | • | • |
| KINGMAX | FLFF65F-C8KL9 | 4GB | DS | KINGMAX | KFC8FNLBF-GXX-12A | - | - | • | • | • |
| KINGMAX | FLFF65F-C8KL9 | 4GB | DS | KINGMAX | KFC8FNLXF-DXX-15A | - | - | • | • | • |
| KINGMAX | FLFF65F-C8KM9 | 4GB | DS | Kingmax | KFC8FNMXF-BXX-15A | - | - | • | • | • |
| KINGSTON | KVR1333D3E9S/4G | 4GB | DS | Elpida | J2108ECSE-DJ-F | 9 | 1.5 | • | • | • |
| KINGSTON | KVR1333D3N9/2G | 2GB | DS | Kingston | D1288JPNDPLD9U | 9 | 1.5 | • | • | • |
| KINGSTON | KVR1333D3N9H/8G | 8GB | DS | ELPIDA | J4208EASE-DJ-F | 9-9-9-24 | 1.5 | • | • | • |
| KINGSTON | KVR1333D3N9K2/4G | 4GB (2x 2GB) | DS | KINGSTON | D1288JEMFPGD9U | - | 1.5 | • | • | • |
| KINGSTON | KVR1333D3S8N9/2G | 2GB | SS | Micron | IFD77 D9LGK | - | 1.5 | • | • | • |
| KINGSTON | KVR13N9S8H/4 | 4GB | SS | ELPIDA | J4208BBBG-GN-F | 9-9-9-24 | 1.5 | • | • | • |
| MICRON | MT16KTF51264AZ-1G6M1 | 4GB | DS | MICRON | D9PFJ | - | - | • | • | • |
| MICRON | MT8JTF25664AZ-1G4M1 | 2GB | SS | MICRON | D9PFJ | - | - | • | • | • |
| MICRON | MT8KTF25664AZ-1G6M1 | 2GB | SS | MICRON | D9PFJ | - | - | • | • | • |
| OCZ | OCZ3G1333LV4GK | 4GB (2x 2GB) | DS | - | - | 9-9-9 | 1.65 | • | • | • |

| | | | | | | | | | | |
|------------------|--------------------------|----------------|----|-----------|-----------------|------------|------|---|---|---|
| OCZ | OCZ3G1333LV8GK | 8GB (2x 4GB) | DS | - | - | 9-9-9 | 1.65 | • | • | • |
| OCZ | OCZ3G1333LV8GK | 8GB (2x 4GB) | DS | - | - | 9-9-9 | 1.65 | • | • | |
| OCZ | OCZ3RPR1333C9LV8GK | 8GB (2x 4GB) | DS | - | - | 9-9-9 | 1.65 | • | • | |
| SAMSUNG | M378B1G73AH0-CH9 | 8GB | DS | SAMSUNG | K4B4G0846A-HCH9 | - | - | • | • | • |
| SAMSUNG | M378B5273CH0-CH9 | 4GB | DS | SAMSUNG | K4B2G0846C | K4B2G0846C | - | • | • | • |
| SAMSUNG | M378B5673FH0-CH9 | 2GB | DS | SAMSUNG | K4B1G0846F | - | - | • | • | • |
| Transcend | JM1333KLN-2G | 2GB | SS | Transcend | TK483PCW3 | - | - | | • | • |
| Transcend | JM1333KLN-2G (582670) | 2GB | SS | Micron | ICD77 C9LGK | - | - | | | • |
| Transcend | JM1333KLN-4G | 4GB | DS | Transcend | TK483PCW3 | - | - | • | • | • |
| Transcend | JM1333KLN-4G (583782) | 4GB | DS | Transcend | TK483PCW3 | 9 | - | • | • | |
| Transcend | TS256MLK64V3N (585541) | 2GB | SS | Micron | ICD77 D9LGK | 9 | - | • | • | • |
| Transcend | TS256MLK64V3N (566577) | 2GB | SS | Hynix | H5TQ2G83BFR | 9 | - | • | • | • |
| Transcend | TS256MLK64V3N (574206) | 2GB | SS | Micron | D9LGK | 9 | - | • | • | • |
| Transcend | TS256MLK64V3NL | 2GB | SS | Hynix | H5TQ2G83CFRH9C | - | - | | | • |
| Transcend | TS512MLK64V3N (574831) | 4GB | DS | Micron | D9LGK | 9 | - | | • | |
| Transcend | TS1GLK64V3H(620053) | 8GB | DS | MICRON | D9QBJ | 9-9-9-24 | N/A | • | • | |

DDR3 1600 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | | |
|----------------|----------------------------------|-----------------|-------|------------|-------------------|-------------------|-----------|--------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| Apacer | 78.B1GET.9K00C | 4GB | SS | Apacer | AM5D6008BQQSCK | 11-11-11-28 | 1.5 | • | • | |
| Apacer | 78.C1GET.9K10C | 8GB | DS | Apacer | AM5D6008BQQSCK | 11-11-11-31 | N/A | • | • | |
| Apacer | AHU08GFA60CBT3R | 8GB | DS | N/A | Heat-Sink Package | 10-10-10-28 | N/A | • | • | |
| A-DATA | AM2U16BC2P1 | 2GB | SS | A-DATA | 3CCD-1509A | - | - | • | • | • |
| A-DATA | AM2U16BC4P2 | 4GB | DS | A-DATA | 3CCD-1509A | - | - | • | • | • |
| A-DATA | AX3U1600GC4G9(XMP) | 4GB | DS | - | - | - | 1.55~1.75 | • | • | • |
| A-DATA | AX3U1600PC4G8(XMP) | 4GB | DS | - | - | 8-8-8-24 | 1.55~1.75 | • | • | • |
| A-DATA | AD3U1600W8G11 | 8GB | DS | A-DATA | 3WCD-1211A | 11-11-11-28 | N/A | • | • | |
| A-DATA | AX3U1600GW8G9 | 16GB (2x 8GB) | DS | N/A | Heat-Sink Package | 9-9-9-24 | 1.5 | • | • | |
| AEXEA | AXA3PS4GK1600S18V(XMP) | 4GB (2x 2GB) | DS | - | - | - | 1.65 | • | • | • |
| AMD | AP38G1608U2K(XMP) | 8GB (2x 4GB) | DS | - | - | 9-9-9-28 | 1.65 | • | • | • |
| Asint | SLA302G08-EGG1C(XMP) | 4GB | DS | Asint | 302G08-GG1C | 9-9-9-27 | - | • | • | • |
| Asint | SLA302G08-EGJ1C(XMP) | 4GB | DS | Asint | 302G08-GJ1C | 9-9-9-27 | - | • | • | |
| Asint | SLA302G08-EGN1C | 4GB | DS | ASint | 302G08-GN1C | - | - | • | • | • |
| Asint | SLB304G08-EGN1B | 8GB | DS | ASint | 304G08-GN1B | - | - | • | • | • |
| Asint | SLZ302G08-EGN1C | 2GB | SS | ASint | 302G08-GN1C | - | - | • | • | • |
| Asint | SLZ3128M8-EGJ1D(XMP) | 2GB | DS | Asint | 3128M8-GJ1D | - | - | • | • | • |
| ATP | AQ12M64B8BKK0S | 4GB | DS | SAMSUNG | K4B2G08460 | - | NO | • | • | • |
| CORSAIR | CMG4GX3M2A1600C6 | 4GB (2x 2GB) | DS | - | - | 6-6-6-18 | 1.65 | • | • | • |
| CORSAIR | CML16GX3M4X1600C8(Ver 2.12)(XMP) | 16GB (4x 4GB) | DS | - | - | Heat-Sink Package | 1.5 | • | • | • |

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|------------------|---------------------------------|-----------------|----|---------|---------------|----------|------|---|---|---|
| CORSAIR | CMP6GX3M3A1600C8(XMP) | 6GB (3x 2GB) | DS | - | - | 8-8-8-24 | 1.65 | ● | ● | ● |
| CORSAIR | CMP6GX3M3A1600C8(XMP) | 6GB (3x 2GB) | DS | - | - | 8-8-8-24 | 1.65 | ● | ● | ● |
| CORSAIR | CMX6GX3M3C1600C7(XMP) | 6GB (3x 2GB) | DS | - | - | 7-8-7-20 | 1.65 | ● | ● | ● |
| CORSAIR | CMZ16GX3M4A1600C9(XMP) | 16GB (4x 4GB) | DS | - | - | 9-9-9-24 | 1.5 | ● | ● | ● |
| CORSAIR | CMZ8GX3M2A1600C8(XMP) | 8GB (2x 4GB) | DS | - | - | 8-8-8-24 | 1.5 | ● | ● | ● |
| CORSAIR | CMZ8GX3M2A1600C9(XMP) | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.5 | ● | ● | ● |
| CORSAIR | CMZ8GX3M4X1600C9(Ver 2.12)(XMP) | 8GB (4x 2GB) | SS | - | - | 9-9-9-24 | 1.5 | ● | ● | ● |
| CORSAIR | HX3X12G1600C9(XMP) | 12GB (6x 2GB) | DS | - | - | 9-9-9-24 | 1.6 | ● | ● | ● |
| Crucial | BL12864BN1608.8FF(XMP) | 2GB(2x 1GB) | SS | - | - | 8-8-8-24 | 1.65 | ● | ● | ● |
| Crucial | BLT4G3D1608DT1TX0.16FM(XMP) | 4GB | DS | - | - | 8-8-8-24 | 1.5 | ● | ● | ● |
| EK Memory | EKM324L28BP8-I16(XMP) | 4GB(2x 2GB) | DS | - | - | 9 | - | ● | ● | ● |
| EK Memory | EKM324L28BP8-I16(XMP) | 4GB(2 x 2GB) | DS | - | - | 9 | - | ● | ● | ● |
| Elixir | M2X2G64CB88G7N-DG(XMP) | 2GB | SS | Elixir | N2CB2G80GN-DG | 9-9-9-28 | - | ● | ● | ● |
| Elixir | M2X4G64CB8HG5N-DG(XMP) | 4GB | DS | Elixir | N2CB2G80GN-DG | 9-9-9-28 | - | ● | ● | ● |
| G.SKILL | F3-12800CL7D-8GBRH(XMP) | 8GB (2x 4GB) | DS | - | - | 7-8-7-24 | 1.6 | ● | ● | ● |
| G.SKILL | F3-12800CL7Q-16GBXH(XMP) | 16GB (4x 4GB) | DS | - | - | 7-8-7-24 | 1.6 | ● | ● | ● |
| G.SKILL | F3-12800CL8D-8GBECO(XMP) | 8GB (2x4GB) | DS | - | - | 8-8-8-24 | 1.35 | ● | ● | ● |
| G.SKILL | F3-12800CL9D-8GBRL(XMP) | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.5 | ● | ● | ● |
| G.SKILL | F3-12800CL9D-8GBSR2(XMP) | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.25 | ● | ● | ● |
| G.SKILL | F3-12800CL9Q-16GBXL(XMP) | 16GB (4x 4GB) | DS | - | - | 9-9-9-24 | 1.5 | ● | ● | ● |
| G.Skill | F3-12800CL9Q-16GBZL(XMP) | 16GB (4x 4GB) | DS | - | - | 9-9-9-24 | 1.5 | ● | ● | ● |
| GEIL | GET316GB1600C9QC(XMP) | 16GB (4x 4GB) | DS | - | - | 9-9-9-28 | 1.6 | ● | ● | ● |
| GEIL | GUP34GB1600C7DC(XMP) | 4GB (2x 2GB) | DS | - | - | 7-7-7-24 | 1.6 | ● | ● | ● |
| GoodRam | GR1600D364L9/2G | 2GB | DS | GoodRam | GF1008KC-JN | - | - | ● | ● | ● |
| KINGMAX | FLGE85F-C8KL9A(XMP) | 2GB | SS | KINGMAX | N/A | 9-9-9-28 | - | ● | ● | ● |
| KINGMAX | FLGF65F-C8KL9A(XMP) | 4GB | DS | KINGMAX | N/A | 9-9-9-28 | - | ● | ● | ● |
| KINGSTON | KHX1600C9D3K2/4GX(XMP) | 4GB (2x 2GB) | DS | - | - | - | 1.65 | ● | ● | ● |
| KINGSTON | KHX1600C9D3K3/12GX(XMP) | 12GB(3x 4GB) | DS | - | - | - | 1.65 | ● | ● | ● |
| KINGSTON | KHX1600C9D3K3/6GX(XMP) | 6GB (3x 2GB) | DS | - | - | 9 | 1.65 | ● | ● | ● |
| KINGSTON | KHX1600C9D3K3/6GX(XMP) | 6GB (3x 2GB) | DS | - | - | 9 | 1.65 | ● | ● | ● |
| Kingston | KHX1600C9D3K4/16GX(XMP) | 16GB (4x 4GB) | DS | - | - | 9-9-9-24 | 1.65 | ● | ● | ● |
| KINGSTON | KHX1600C9D3K6/24GX(XMP) | 24GB (6x 4GB) | DS | - | - | 9 | 1.65 | ● | ● | ● |
| Kingston | KHX1600C9D3K8/32GX(XMP) | 32GB (8x 4GB) | DS | - | - | 9-9-9-27 | 1.65 | ● | ● | ● |
| KINGSTON | KHX1600C9D3LK2/4GX(XMP) | 4GB (2x 2GB) | DS | - | - | - | 1.35 | ● | ● | ● |
| Kingston | KHX1600C9D3LK2/8GX(XMP) | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.35 | ● | ● | ● |
| KINGSTON | KHX1600C9D3P1K2/8G | 8GB (2x 4GB) | DS | - | - | 9 | 1.5 | ● | ● | ● |
| KINGSTON | KHX1600C9D3T1BK3/12GX(XMP) | 12GB (3x 4GB) | DS | - | - | 9 | 1.65 | ● | ● | ● |
| KINGSTON | KHX1600C9D3T1K3/6GX(XMP) | 6GB (3x 2GB) | DS | - | - | 9 | 1.65 | ● | ● | ● |

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|----------------------|--------------------------|-----------------|----|-----------|-------------------|-------------|------|---|---|---|
| KINGSTON | KHX1600C9D3X2K2/4GX(XMP) | 4GB (2x 2GB) | DS | - | - | 9 | 1.65 | • | • | • |
| KINGTIGER | KTG2G1600PG3(XMP) | 2GB | DS | - | - | - | - | • | • | • |
| KINGSTON | KHX16009CD3K2/8GX | 8GB (2x 4GB) | DS | N/A | Heat-Sink Package | 9-9-9-27 | 1.65 | • | • | |
| KINGSTON | KHX16C10B1K2/16X | 16GB (2x 8GB) | DS | N/A | Heat-Sink Package | 9-9-9-24 | 1.5 | • | • | |
| Mushkin | 996805(XMP) | 4GB (2x 2GB) | DS | - | - | 6-8-6-24 | 1.65 | • | • | • |
| Mushkin | 998805(XMP) | 6GB (3x 2GB) | DS | - | - | 6-8-6-24 | 1.65 | • | • | • |
| OCZ | OCZ3BE1600C8LV4GK | 4GB(2x 2GB) | DS | - | - | 8-8-8 | 1.65 | • | • | |
| Patriot | AE32G1609U1-U | 2GB | SS | AMD | 23EY4587MB6H | - | 1.5 | • | • | • |
| Patriot | AE34G1609U2-U | 4GB | DS | AMD | 23EY4587MB6H | - | 1.5 | • | • | • |
| Patriot | PGD316G1600ELK(XMP) | 16GB (2x 8GB) | DS | - | - | - | 1.65 | • | • | • |
| Patriot | PGD38G1600ELK(XMP) | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.65 | • | • | • |
| Patriot | PGS34G1600LLKA | 4GB(2x 2GB) | DS | - | - | 7-7-7-20 | 1.7 | • | • | • |
| Patriot | PGS34G1600LLKA2 | 4GB (2x 2GB) | DS | - | - | 8-8-8-24 | 1.7 | • | • | |
| Patriot | PVV38G1600LLK(XMP) | 8GB (2x 4GB) | DS | - | - | 8-9-8-24 | 1.65 | • | • | • |
| Patriot | PX7312G1600LLK(XMP) | 12GB (3x 4GB) | DS | - | - | 8-9-8-24 | 1.65 | • | • | • |
| Patriot | PV316G160C9QKRD | 16GB (4x 4GB) | DS | N/A | Heat-Sink Package | 11-11-11-31 | 1.5 | • | • | |
| SanMax | SMD-4G68HP-16KZ | 4GB | DS | Hynix | H5TQ2G83BFRPBC | - | 1.5 | • | • | • |
| SanMax | SMD-4G68NG-16KK | 4GB | DS | ELPIDA | J2108BDBG-GN-F | - | - | • | • | • |
| Silicon Power | SP002GBLTU160V02(XMP) | 2GB | SS | S-POWER | 20YT5NG | 9-11-11-28 | 1.5 | • | • | • |
| Silicon Power | SP004GBLTU160V02(XMP) | 4GB | DS | S-POWER | 20YT5NG | 9-9-9-24 | 1.5 | • | • | • |
| Team | TED34096M1600HC11 | 4GB | DS | Team | T3D2568ET-16 | - | - | • | • | • |
| Team | TXD31024M1600C8-D(XMP) | 1GB | SS | Team | T3D1288RT-16 | 8-8-8-24 | 1.65 | • | • | • |
| Team | TXD32048M1600C7-L(XMP) | 2GB | DS | Team | T3D1288LT-16 | 7-7-7-24 | 1.65 | • | • | |
| Team | TXD32048M1600HC8-D(XMP) | 2GB | DS | Team | T3D1288RT-16 | 8-8-8-24 | 1.65 | • | • | • |
| Team | TXD34096M1600HC9-D(XMP) | 4GB | DS | Hynix | H5TC2G83BFRH9A | 9-9-9-24 | 1.5 | • | • | • |
| Transcend | JM1600KLN-8GK | 8GB (2x 4GB) | DS | Transcend | TK483PCW3 | - | - | • | • | |
| Transcend | TS256MLK64V6N | 2GB | SS | Transcend | K4B2G0846C | - | - | • | • | • |
| Transcend | TS512MLK64V6N | 4GB | DS | MICRON | D9PFJ | - | - | • | • | • |
| Transcend | TS512MLK64V6N | 4GB | DS | Transcend | K4B2G0846C | - | - | • | • | • |
| Transcend | TS1GLK64V6H(620645) | 8GB | DS | SAMSUNG | K4B4G0846B | 11-11-11-28 | N/A | • | • | |

DDR3 1800 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | | |
|----------------|-------------------------|--------------|-------|------------|----------|----------|---------|--------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| G.SKILL | F3-14400CL9D-4GBRL(XMP) | 4GB(2 x 2GB) | DS | - | - | 9-9-9-24 | 1.6 | • | • | • |

DDR3 1866 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | | |
|---------------|---------------------|------|-------|------------|----------|-----------|-----------|--------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| A-DATA | AX3U1866GC4G9B(XMP) | 4GB | DS | - | - | 9-11-9-27 | 1.55~1.75 | • | | • |

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|-----------------|--------------------------------------|-----------------|----|-------|-------------------|-------------|------|---|---|---|
| CORSAIR | CMD16GX3M4A1866C9 (Ver4.13)(XMP) | 16GB (4x 4GB) | DS | - | - | 9-10-9-27 | 1.5 | • | • | • |
| CORSAIR | CMD8GX3M2A1866C9 (Ver4.13)(XMP) | 8GB (2x 4GB) | DS | - | - | - | 1.5 | • | • | • |
| CORSAIR | CMT32GX3M4X1866C9(Ver3.23) (XMP) | 32GB (4x 8GB) | DS | - | - | 9-10-9-27 | 1.5 | • | • | • |
| CORSAIR | CMZ16GX3M4X1866C9R(Ver8.1 6)(XMP) | 16GB (4x 4GB) | DS | - | - | 9-10-9-27 | 1.5 | • | • | • |
| CORSAIR | CMZ8GX3M2A1866C9(XMP) | 8GB (2x 4GB) | DS | - | - | 9-10-9-27 | 1.5 | • | • | • |
| CORSAIR | CMD16GX3M2A1866C9 (Ver5.29) | 16GB (2x 8GB) | DS | N/A | Heat-Sink Package | 9-9-9-27 | 1.5 | • | • | • |
| Crucial | BLE4G3D1869DE1XT0.16FMD(X MP) | 4GB | DS | - | - | 9-9-9-27 | 1.5 | • | • | • |
| G.SKILL | F3-14900CL10Q2- 64GBZLD(XMP) | 64GB (8x 8GB) | DS | - | - | 10-11-10-30 | 1.5 | • | • | • |
| G.SKILL | F3-14900CL9Q-16GBXL(XMP) | 16GB (4x 4GB) | DS | - | - | 9-10-9-28 | 1.5 | • | • | • |
| G.SKILL | F3-14900CL9Q-16GBZL(XMP) | 16GB (4x 4GB) | DS | - | - | 9-10-9-28 | 1.5 | • | • | • |
| G.SKILL | F3-1866C9Q-32GXM | 32GB (4x 8GB) | DS | N/A | Heat-Sink Package | 9-10-9-28 | 1.5 | • | • | • |
| Kingston | KHX1866C9D3K2/8GX(XMP) | 8GB (2x 4GB) | DS | - | - | - | 1.65 | • | • | • |
| Patriot | PXD38G1866ELK(XMP) | 8GB (2x 4GB) | DS | - | - | 9-11-9-27 | 1.65 | • | • | • |
| Patriot | PXD38G1866ELK(XMP) | 8GB (2x 4GB) | DS | - | - | 9-11-9-27 | 1.65 | • | • | • |
| Team | TXD34096M1866HC9K-L(XMP) | 4GB | DS | Hynix | H5TC2G83BFRH9A | 9-11-9-27 | 1.65 | • | • | • |
| Team | TLD38G1866HC10SBK | 8GB | DS | N/A | Heat-Sink Package | 10-11-10-30 | 1.5 | • | • | • |

DDR3 2000 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | | |
|----------------|-------------------------------------|-----------------|-------|------------|----------------|-------------|-----------|--------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| A-DATA | AX3U2000GB2G9B(XMP) | 2GB | DS | - | - | 9-11-9-27 | 1.55~1.75 | • | • | • |
| A-DATA | AX3U2000GC4G9B(XMP) | 4GB | DS | - | - | 9-11-9-27 | 1.55~1.75 | • | • | • |
| AEXEA | AXA3ES2G2000LG28V(XMP) | 2GB | DS | - | - | - | 1.65 | • | • | • |
| AEXEA | AXA3ES4GK2000LG28V(XMP) | 4GB (2x 2GB) | DS | - | - | - | 1.65 | • | • | • |
| Apacer | 78.AAGD5.9KD(XMP) | 6GB(3 x 2GB) | DS | - | - | 9-9-9-27 | - | • | • | • |
| Asint | SLA302G08-ML2HB(XMP) | 4GB | DS | Hynix | H5TQ2G83BFRH9C | 9-9-9-27 | - | • | • | • |
| CORSAIR | CMT6GX3M3A2000C8(XMP) | 6GB (3x 2GB) | DS | - | - | 8-9-8-24 | 1.65 | • | • | • |
| CORSAIR | CMZ4GX3M2A2000C10(Ver 5.12)(XMP) | 4GB (2x 2GB) | SS | - | - | 10-10-10-27 | 1.5 | • | • | • |
| G.SKILL | F3-16000CL9D-4GBRH(XMP) | 4GB(2 x 2GB) | DS | - | - | 9-9-9-24 | 1.65 | • | • | • |
| G.SKILL | F3-16000CL9D-4GBTD(XMP) | 4GB(2 x 2GB) | DS | - | - | 9-9-9-24 | 1.65 | • | • | • |
| Patriot | PX7312G2000ELK(XMP) | 12GB (3x 4GB) | DS | - | - | 9-11-9-27 | 1.65 | • | • | • |
| Team | TXD32048M2000C9(XMP) | 2GB | DS | Team | T3D1288RT-20 | 9-9-9-24 | 1.5 | • | • | • |
| Team | TXD32048M2000C9-L(XMP) | 2GB | DS | Team | T3D1288LT-20 | 9-9-9-24 | 1.5 | • | • | • |
| Team | TXD32048M2000C9-L(XMP) | 2GB | DS | Team | T3D1288RT-20 | 9-9-9-24 | 1.6 | • | • | • |

DDR3 2133 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | | |
|----------|-------------------------------|-----------------|-------|------------|-------------------|-------------|---------|--------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| Apacer | AHU04GFB33CAQ3R | 4GB | DS | N/A | Heat-Sink Package | 11-13-13-31 | N/A | • | • | |
| A-DATA | AX3U2133XW8G10 | 8GB | DS | N/A | Heat-Sink Package | 10-11-11-30 | 1.65 | • | • | |
| CORSAIR | CMT4GX3M2A2133C9(XMP) | 4GB (2x 2GB) | DS | - | - | 9-10-9-24 | 1.65 | • | • | • |
| CORSAIR | CMT4GX3M2B2133C9(Ver7.1)(XMP) | 4GB (2x 2GB) | DS | - | - | 9-9-9-24 | 1.5 | • | • | • |
| CORSAIR | CMT4GX3M2B2133C9(XMP) | 4GB (2x 2GB) | DS | - | - | 9-10-9-27 | 1.5 | • | • | • |
| G.SKILL | F3-17000CL11Q2-64GBZLD(XMP) | 64GB (8x 8GB) | DS | - | - | 11-11-11-30 | 1.5 | • | • | |
| G.SKILL | F3-17000CL9Q-16GBZH(XMP) | 16GB (4x 4GB) | DS | - | - | 9-11-10-28 | 1.65 | • | • | • |
| G.SKILL | F3-17066CL9D-8GBPID(XMP) | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.65 | • | • | |
| G.SKILL | F3-17066CL9Q-16GBTDD(XMP) | 16GB (4x 4GB) | DS | - | - | 9-9-9-24 | 1.65 | • | • | |
| G.SKILL | F3-2133C11Q-32GZL | 32GB (4x 8GB) | DS | N/A | Heat-Sink Package | 11-11-11-31 | 1.5 | • | • | |
| KINGSTON | KHX2133C11D3K4/16GX(XMP) | 16GB (4x 4GB) | DS | - | - | 11-12-11-30 | 1.65 | • | • | • |
| KINGSTON | KHX2133C11D3T1K2/16GX(XMP) | 16GB (2x 8GB) | DS | - | - | 9-9-9-24 | 1.6 | • | • | • |
| KINGSTON | KHX21C11T3FK8/64X | 64GB (8x 8GB) | DS | N/A | Heat-Sink Package | 11-12-11-32 | 1.65 | • | • | |
| OCZ | OCZ3XTEP2133C9LV4GK | 2GB | DS | - | - | 7-7-7-20 | 1.65 | • | • | |
| Patriot | PVV34G2133C9K(XMP) | 4GB (2x 2GB) | DS | - | - | 9-11-9-27 | 1.66 | • | • | |
| Patriot | PXD38G2133C11K(XMP) | 8GB (2x 4GB) | DS | - | - | 9-9-9-24 | 1.65 | • | • | • |
| Patriot | PV316G213C1K | 16GB (2x 8GB) | DS | N/A | Heat-Sink Package | 11-11-11-30 | 1.5 | • | • | |
| Team | TXD34096M2133HC9N-L(XMP) | 4GB | DS | SAMSUNG | K4B2G0846D | 9-9-9-24 | 1.65 | • | • | • |
| Team | TLD38G2133HC11ABK | 8GB | DS | N/A | Heat-Sink Package | 11-11-11-31 | 1.65 | • | • | |

DDR3 2200 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | | |
|---------|--------------------------|----------------|-------|------------|----------|------------|---------|--------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| G.SKILL | F3-17600CL7D-4GBFLS(XMP) | 4G (2x 2G) | DS | - | - | 7-10-10-28 | 1.65 | • | • | • |
| GEIL | GET34GB2200C9DC(XMP) | 4GB (2x 2GB) | DS | - | - | 9-10-9-28 | 1.65 | • | • | • |
| KINGMAX | FLKE85F-B8KJAA-FEIS(XMP) | 4GB (2x 2GB) | DS | Kingmax | N/A | - | - | • | • | |

DDR3 2400 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | | |
|---------|------------------------------|-----------------|-------|------------|-------------------|-------------|---------|--------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| A-DATA | AX3U2400GC4G10 | 4GB | DS | N/A | Heat-Sink Package | 10-12-12-31 | 1.65 | • | | |
| CORSAIR | CMZ16GX3M2A2400C10 (Ver4.21) | 16GB (2x 8GB) | DS | N/A | Heat-Sink Package | 10-12-12-31 | 1.65 | • | • | |
| G.SKILL | F3-19200CL10Q-32GBZHD(XMP) | 32GB (4x 8GB) | DS | - | - | 10-12-12-31 | 1.65 | • | • | |
| G.SKILL | F3-19200CL11Q-16GBZHD(XMP) | 16GB (4x 4GB) | DS | - | - | 11-11-11-31 | 1.65 | • | • | |

| G.SKILL | F3-19200CL11Q-16GBZHD(XMP) | 16GB (4x 4GB) | DS | - | - | 11-11-11-31 | 1.65 | • | • | |
|---|-----------------------------|-----------------|-------|------------|-------------------|-------------|---------|--------------------------------|--------|--------|
| G.SKILL | F3-19200CL9Q-16GBZMD(XMP) | 16GB (4x 4GB) | DS | - | - | 9-11-11-31 | 1.65 | • | | |
| GEIL | GOC316GB2400C11QC(XMP) | 16GB (4x 4GB) | DS | - | - | 11-11-11-30 | 1.65 | • | | |
| KINGSTON | KHX24C11T2K2/8X | 8GB (2x 4GB) | DS | N/A | Heat-Sink Package | 9-9-9-24 | 1.65 | • | | |
| Team | TXD38G2400HC10QBK | 8GB | DS | N/A | Heat-Sink Package | 10-12-12-31 | 1.65 | • | | |
| Transcend | TX2400KLU-4GK (381850)(XMP) | 2GB | DS | - | - | - | 1.65 | • | | |
| Transcend | TX2400KLU-4GK(374243)(XMP) | 2GB | DS | - | - | - | 1.65 | • | | |
| DDR3 2500 Qualified Vendors List (QVL) | | | | | | | | | | |
| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | | |
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| G.Skill | F3-20000CL10Q-16GBZHD | 16GB (4x 4GB) | DS | N/A | Heat-Sink Package | 10-11-11-31 | 1.65 | • | | |

4 DIMM Slots

- **1 DIMM:** Supports one module inserted in any slot as Single-channel memory configuration
- **2 DIMM:** Supports one pair of modules inserted into either the beige slots or the black slots as one pair of Dual-channel memory configuration
- **4 DIMM:** Supports 4 modules inserted into both the beige and black slots as two pairs of Dual-channel memory configuration

-When installing total memory of 4GB capacity or more, Windows 32-bit operation system may only recognize less than 3GB. Hence, a total installed memory of less than 3GB is recommended.

-It is recommended to install the memory modules from the slots for better overclocking capability.

-The default DIMM frequency depends on its Serial Presence Detect (SPD), which is the standard way of accessing information from a memory module. Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

-Memory module with memory frequency higher than 2133 MHz and its corresponding timing or the loaded XMP Profile is not the JEDEC memory standard. The stability and compatibility of these memory modules depend on the CPU's capabilities and other installed devices.

-Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.