# PRIME Q270M-C

**DDR4 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 |
| SAMSUNG | M378A5143DB0--CPB | 4GB | SS | SEC 428 BCPB | K4A4G085WD | 15-15-15-36 | 1.2V | • | • | • |
| SAMSUNG | M378A1G43DB0--CPB | 8GB | DS | SEC 428 BCPB | K4A4G085WD | 15-15-15-36 | 1.2V | • | • | • |
| G.SKILL | F4-2133C15Q-32GRK | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| GLOWAY | PC4-17000 | 4GB | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| HyperX | HX421C13PBK4/16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | • |
| PANRAM | PUD42133C138G4NJW | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 13-13-13-35 | 1.2V | • | • | • |
| PANRAM | PUD42133C134G4NJW | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 13-13-13-35 | 1.2V | • | • | • |
| CORSAIR | CMK16GX4M4A2133C15 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | • |
| CRUCIAL | MTA8ATF51264AZ-2G1A1 | 4GB | SS | MICRON | 4QA77D9RCQ | 15-15-15-36 | 1.2V | • | • | • |
| CORSAIR | CMV4GX4M1A2133C15 | 4GB | SS | N/A | 4GA72Z9RGR | 15-15-15-36 | 1.2V | • | • | |
| CORSAIR | CMV8GX4M1A2133C15 | 8GB | DS | SEC 446 BCPB | K4A4G085WD | 15-15-15-36 | 1.2V | • | • | • |
| HyperX | HX421C14FB/8 | 8GB | DS | N/A | Heat-Sink Package | 14-14-14-35 | 1.2V | • | • | • |
| TEAM | TED44GM2133C15BK | 8GB | DS | SEC 437BCBP | K4A4G085WD | 15-15-15-36 | 1.2V | • | • | • |
| HyperX | HX421C13SBK4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | • |
| HyperX | HX421C13SBK4/16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | • |
| KINGSTON | KVR21N15D8/8 | 8GB | DS | SK HYNIX | H5AN4G8NAFR | 15-15-15-36 | 1.2V | • | • | • |
| GALAXY | GAM4DBLBM2133D15IE041C | 4GB | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | • |
| Silicon Power | SP004GBLFU213N02 | 4GB | SS | SP | 4N4083HMBE S1543X | 15-15-15-36 | 1.2V | • | • | |
| GALAXY | GAM4DBLBM213315IE081C | 8GB | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4U21331508G-1C0B | 8GB | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| CORSAIR | CMK16GX4M4A2133C13 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 13-15-15-28 | 1.2V | • | • | • |
| GEIL | GPR48GB2133C15DC | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | • |
| HyperX | HX421C14FBK4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 14-14-14-35 | 1.2V | • | • | • |
| TEKISM | T4U2133B8G15-SAD | 8GB | DS | SEC 446 BCPB | K4A4G085WD | 15-15-15-36 | 1.2V | • | • | • |
| G.SKILL | F4-2133C15Q-16GRB | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| KINGSTON | KVR21N15S8/4 | 4GB | SS | SK HYNIX | H5AN4G8NMFR | 15-15-15-36 | 1.2V | • | • | |
| AMD | R748G2133U2S | 8GB | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | |
| ADATA | AX4U2133W4G15-QRZ | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | • | • | • |
| TEAM | TED48GM2133C15BK | 8GB | DS | SK HYNIX | H5AN4G8NMFR | 15-15-15-36 | 1.2V | • | • | • |
| ADATA | AD4U2133W8G15-B | 128GB(8GB*16) | DS | SK HYNIX | H5AN4G8NAFR | | | • | • | • |
| CRUCIAL | CT8G4DFD8213.16FA11 | 32GB(8GB*4) | DS | MICRO | 5CA77D9RGQ | | 1.2V | • | • | • |
| KINGSTON | KVR21E15S8/4 | 4GB | SS | SK HYNIX | H5AN4G8NAFR | | 1.2V | • | • | • |
| G.SKILL | F4-2133C15S-4GNT | 4GB | SS | G.SKILL | D4 512M8GE15 | 15-15-15-35 | 1.2V | • | • | • |
| TEAM | TPAD44G2133HC15BK | 4GB | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | • |
| APACER | AHU08GGB13CGT7G | 8GB | DS | N/A | Heat-Sink Package | | | • | • | |
| ASINT | SLB404G08-CCN2B 1615 | 8GB | DS | SK HYNIX | H5AN4G8NMFR | | | • | • | • |
| PATRIOT | PSD44G213381 | 4GB | SS | PAIROT | 1621JB5454512X8DDR4 | | | • | • | • |
| PATRIOT | PSD48G21332 | 8GB | DS | PAIROT | PM512M8D4BU-083 | | | • | • | • |
| APACER | AU08GGB13CDTBGC | 8GB | DS | APACER | AM6F6008THSA11550F | | | • | • | • |
| SAMSUNG | M378A1K43BB1-CPB | 8GB | SS | SEC 610 | K4A8G085WBBCPB | | | • | • | |
| HyperX | HX421C14FB2/8 | 8GB | SS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| HyperX | HX421C14FBK2/8 | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| HyperX | HX421C14FB/4 | 4GB | SS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| KINGSTON | KVR21N15S8/8 | 8GB | SS | MIRCON | 6HB77D9TBH | | 1.2V | • | • | • |
| GEIL | 8G2133C151.2V | 8GB | DS | GEIL | 512X8DDR4Y | | 1.2V | • | • | • |
| V-COLOR | TC48G21S818-IMS | 32GB(8GB*4) | SS | V-COLOR | N/A | | 1.2V | • | • | • |
| GOMOS | GRR-D4-2400-8GB | 8GB | SS | GOMOS | GD4N8G8F-UH | | 1.2V | • | • | |
| TEAM | TED416G2133C15BK | 16GB | DS | TEAM | T4D10248MT-21 | 15-15-15-36 | 1.2V | • | • | • |
| TIGO | TMKU8GF58-2133P | 8GB | DS | N/A | PPE08-093TP | | 1.2V | • | • | • |
| SAMSUNG | M378A5143EB1-CPB | 4GB | SS | SEC 637 | E8GZ250WP | | | • | • | • |
| TEAM | TED48G2133C15BK | 8GB | SS | TEAM | T4D10248KT-21 | 15-15-15-36 | 1.2V | • | • | • |
| ANUCELL | GRPIF1621033818594 | 8GB | DS | ANUCELL | P4P4GF3BLF-GMT | 15-15-15-35 | 1.2V | • | • | • |
| GALAXY | GAL4AXLBM213315IE081C | 8GB | SS | GALAXY | GA4L1GM88BA093H | 15-15-15-35 | 1.2V | • | • | • |
| TIGO | TMKU8G868-2133P | 8GB | SS | | PP020-093E TP | | | • | • | • |
| Xiede | 1.2V-PC4-17000-1620 | 4GB | SS | MICON | 6GA77D9RGQ | | | • | • | |
| V-COLOR | TC48G21S815 | 8GB | SS | V-COLOR | TMCB134HA3 | 15-15-15-35 | 1.2V | • | • | • |
| V-COLOR | TC48G21S815-iMS | 8GB | SS | V-COLOR | E0510 | 15-15-15-35 | 1.2V | • | • | • |
| SAMSUNG | M378A2K43BB1CPB | 16GB | DS | SEC510 | K4A8G085WBBCPB | 15-15-15-36 | 1.2V | • | | |
| G.SKILL | F4-2133C15Q-32GRR | 32GB(8GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.20V | • | • | • |
| G.SKILL | F4-2133C15Q2-64GRR | 8G*8 | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.20V | • | • | • |
| HyperX | HX421C13SB/4(XMP) | 4GB | SS | - | - | 13-13-13-36 | 1.2V | ● | ● | ● |
| HyperX | HX421C13SB/8(XMP) | 8GB | DS | - | - | 13-13-13-36 | 1.2V | ● | ● | ● |
| HyperX | HX421C13SBK2/16(XMP) | 16GB(8GB*2) | DS | - | - | 13-13-13-36 | 1.2V | ● | ● | ● |
| HyperX | HX421C13SBK2/8(XMP) | 8GB(4GB*2) | SS | - | - | 13-13-13-36 | 1.2V | ● | ● | ● |
| HyperX | HX421C13SBK4/16(XMP) | 16GB(4GB*4) | SS | - | - | 13-13-13-36 | 1.2V | ● | ● | ● |
| HyperX | HX421C13SBK4/32(XMP) | 32GB(8GB*4) | DS | - | - | 13-13-13-36 | 1.2V | ● | ● | ● |
| HyperX | HX421C14FB2K4/32(XMP) | 32GB(8GB*4) | SS | - | - | 14-14-14-35 | 1.2V | ● | ● | ● |
| HyperX | HX421C14FBK2/16(XMP) | 16GB(8GB*2) | DS | - | - | 14-14-14-35 | 1.2V | ● | ● | ● |
| HyperX | HX421C14FBK4/16(XMP) | 16GB(4GB*4) | SS | - | - | 14-14-14-35 | 1.2V | ● | ● | ● |
| HyperX | HX421C14FBK4/64 | 64GB(16GB*4) | DS | - | - | 15-15-15-35 | 1.2V | ● | ● | ● |
| HyperX | HX421C14FBK8/64(XMP) | 64GB(8GB*8) | DS | - | - | 14-14-14-35 | 1.2V | ● | ● | ● |
| Kingston | KVR21N15D8/16 | 16GB | DS | Micron | D9TBH | 15-15-15-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4U21331504G-1BW | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-1COR | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-1COB | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-1COW | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-1COY | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-1COG | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-1COO | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-1CWW | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| AVEXIR | AVD4UZ121331504G-2COR | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-2COB | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-2COW | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-2COY | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-2COG | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-2COO | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-2CWW | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-4COR | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-4COB | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-4COW | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-4COY | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-4COG | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-4COO | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331504G-4CWW | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4U21331508G-1BW | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-1COR | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-1COB | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-1COW | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-1COY | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-1COG | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-1COO | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-1CWW | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-2COR | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-2COB | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-2COW | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-2COY | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-2COG | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-2COO | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-2CWW | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-4COR | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ12133150G-4COB | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-4COW | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-4COY | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-4COG | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-4COO | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ121331508G-4CWW | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2133C15Q-16GVR | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-16GVB | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-16GVG | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-16GVK | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-16GVS | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-16GRK | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q2-128GVR | 128GB(16GB*8) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q2-64GRB | 64GB(8GB*8) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-32GVR | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-32GVB | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-32GVG | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-32GVK | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-32GVS | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q-32GRB | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| Apacer | 78.B1GM3.AF00B | 16GB(4GB*4) | SS | SK Hynix | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ● | |
| Apacer | AHU08GGB13CGT7G (EK.08G2R.KDC) | 8GB | DS | Apacer | - | 15-15-15-36 | 1.2 | ● | ● | ● |
| Apacer | AHU08GGB13CGU7G (EK.08G2R.GDC) | 8GB | SS | Apacer | - | 15-15-15-36 | 1.2 | ● | ● | ● |
| Apacer | AU08GGB13CDYBGC (EL.08G2R.GDM) | 8GB | | Apacer | - | 15-15-15-36 | 1.2 | ● | ● | ● |
| CENTURY MICRO INC | CD8G-D4U2133 | 8GB | DS | SK Hynix | H5AN4G8NMFRTFC | 15-15-15-36 | - | ● | ● | ● |
| CENTURY MICRO INC | CK8GX4-D4U2133 | 32GB(8GB*4) | DS | SK hynix | H5AN4G8NMFRTFC | 15-15-15-35 | 1.2 | ● | ● | ● |
| CORSAIR | CMD16GX4M4B2133C10 | 16GB(4GB*4) | SS | - | - | 10-12-12-31 | 1.35 | ● | ● | ● |
| CORSAIR | CMK32GX4M2A2133C13 | 32GB(16GB*2) | DS | - | - | 13-15-15-28 | 1.2 | ● | ● | |
| CORSAIR | CMK32GX4M4A2133C13 | 32GB(8GB*4) | DS | - | - | 13-15-15-28 | 1.2 | ● | ● | ● |
| CORSAIR | CMK32GX4M4A2133C15 | 32GB(8GB*4) | DS | - | - | 15-15-15-36 | 1.2 | ● | ● | ● |
| CORSAIR | CMK64GX4M8A2133C13 | 64GB(8GB*8) | DS | - | - | 13-15-15-28 | 1.2 | ● | ● | ● |
| CORSAIR | CMV16GX4M1A2133C15 | 16GB | DS | - | - | 15-15-15-36 | 1.2 | ● | ● | ● |
| Crucial | CT16G4DFD8213.16FB1 | 16GB | DS | Micron | D9TBH | 15-15-15-36 | 1.2 | ● | ● | ● |
| Crucial | CT4G4DFS8213.8FA1 | 4GB | SS | Micron | D9RGQ | 15-15-15-37 | 1.2 | ● | ● | ● |
| Crucial | CT4G4DFS8213.8FA2 | 4GB | SS | Micron | D9RGQ | 15-15-15-36 | 1.2 | ● | ● | ● |
| Crucial | CT8G4DFD8213.16FA1 | 8GB | DS | Micron | D9RGQ | 15-15-15-37 | 1.2 | ● | ● | ● |
| Crucial | CT8G4DFD8213.16FA2 | 8GB | DS | Micron | D9RGQ | 15-15-15-36 | 1.2 | ● | ● | ● |
| Crucial | CT8G4DFD8213.C16FAR11 | 8GB | DS | Micron | C9BDH | 15-15-15-36 | 1.2 | ● | ● | ● |
| Crucial | CT8G4DFS8213.8FB1 | 8GB | SS | - | - | 15-15-15-36 | 1.2 | ● | ● | ● |
| Foxteonn | FEU4GN51208JC2133F | 4GB | SS | Nanya | NT5AD512M8B1-FM | 15-15-15-36 | - | ● | ● | ● |
| G.SKILL | F4-2133C15Q-16GRR | 16GB(4GB*4) | SS | - | - | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2133C15Q2-128GVK | 128GB(16GB*8) | DS | - | - | 15-15-15-35 | 1.2 | ● | ● | ● |
| GeIL | GPR416GB2133C15QC | 16GB(4GB*4) | SS | - | - | 15-15-15-36 | 1.2 | ● | ● | ● |
| Klevv | KM4C4GX4N-2133-15-15-15-35-0 | 4GB | SS | - | - | 15-15-15-35 | 1.2 | ● | ● | ● |
| Klevv | KM4C4GX4N-2133-15-15-15-35-1 | 16GB(4GB*4) | SS | - | - | 15-15-15-35 | 1.2 | ● | ● | ● |
| Klevv | KM4C8GX4N-2133-15-15-15-35-0 | 8GB | DS | - | - | 15-15-15-35 | 1.2 | ● | ● | ● |
| Klevv | KM4C8GX4N-2133-15-15-15-35-1 | 32GB(8GB*4) | DS | - | - | 15-15-15-35 | 1.2 | ● | ● | ● |
| Micron | MTA16ATF1G64AZ-2G1A2 | 8GB | DS | Micron | D9RG0 | 15-15-15-36 | - | ● | ● | ● |
| Micron | MTA16ATF2G64AZ-2G1B1 | 16GB | DS | Micron | D9TBH | 15-15-15-36 | 1.2 | ● | ● | ● |
| Micron | MTA8ATF1G64AZ-2G1B1 | 8GB | SS | - | - | 15-15-15-36 | 1.2 | ● | ● | ● |
| Micron | MTA8ATF51264AZ-2G1A2 | 4GB | SS | Micron | D9RG0 | 15-15-15-36 | - | ● | ● | ● |
| Samsung | M378A5143DB0-CPB | 4GB | SS | Samsung | K4A4G085WD | 15-15-15-36 | 1.2 | ● | ● | ● |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| SanMax | SMD-4G28HP-21P | 4GB | SS | SK Hynix | H5AN4G8NMFRTFC | 15-15-15-37 | - | ● | ● | ● |
| SanMax | SMD-8G28HP-21P | 8GB | DS | SK Hynix | H5AN4G8NMFRTFC | 15-15-15-37 | - | ● | ● | ● |
| Silicon Power | SP004GBLFU213N01 | 4GB | SS | Samsung | K4A4G085WD | 15-15-15-37 | - | ● | ● | ● |
| Silicon Power | SP008GBLFU213N01 | 8GB | DS | Samsung | K4A4G085WD | 15-15-15-37 | - | ● | ● | ● |
| SK Hynix | HMA41GU7AFR8N-TF | 8GB | DS | SK Hynix | H5AN4G8NAFRTFC | 15-15-15-36 | - | ● | ● | ● |
| SK Hynix | HMA451U7AFR8N-TF | 4GB | SS | SK Hynix | H5AN4G8NAFR | 15-15-15-36 | - | ● | ● | ● |
| SK Hynix | HMA82GU6MFR8N-TF | 16GB | DS | SK Hynix | H5AN8G8NMFRTFC | 15-15-15-36 | - | ● | ● | ● |
| SK Hynix | HMA82GU7MFR8N-TF | 16GB | DS | SK Hynix | H5AN8G8NMFR | 15-15-15-36 | - | ● | ● | ● |
| SUPER TALENT | FBU2B008GM | 8GB | DS | Micron | D9RGQ | 15-15-15-36 | 1.2 | ● | ● | ● |
| Team | TED44GM2133C15ABK | 4GB | SS | SK Hynix | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ● | ● |
| Transcend | TS1GLH64V1H | 8GB | DS | Samsung | K4A4G085WE | 15-15-15-36 | - | ● | ● | ● |
| Transcend | TS2GLH64V1B | 16GB | DS | Samsung | K4A8G085WB | 15-15-15-36 | - | ● | ● | ● |
| Transcend | TS512MLH64V1H | 4GB | SS | Samsung | K4A4G085WE | 15-15-15-36 | - | ● | ● | ● |
| UMAX | 84G44G93MC-21OMCALGF15 | 4GB | SS | Micron | D9RGQ | 15-15-15-36 | - | ● | ● | ● |
| UMAX | 84G48G93MC-21OMCGNGF15 | 8GB | DS | Micron | D9RGQ | 15-15-15-36 | - | ● | ● | ● |

## DDR4 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 |
| ADATA | AX4U2400W8G16-DRZ | 8GB | DS | N/A | Heat-Sink Package | 16-16-16 | 1.2V | • | • | • |
| G.SKILL | F4-2400C15Q-32GRB | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| PATRIOT | PX416G240C5QK | 4GB | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | | |
| GLOWAY | PC4-19200 | 4GB | DS | N/A | Heat-Sink Package | 16-16-16-35 | 1.2V | • | • | • |
| TEAM | TED44GM2400C16BK | 4GB | SS | SEC 437 BCPB | K4A4G085WD | 16-16-16-39 | 1.2V | • | • | • |
| TEAM | TED48GM2400C16BK | 8GB | DS | SEC 443 BCPB | K4A4G085WD | 16-16-16-39 | 1.2V | • | • | • |
| PANRAM | PUD42400C154G4NJW | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | |
| PANRAM | PUD42400C158G4NJW | 8GB | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | |
| CORSAIR | CMK32GX4M4A2400C14 | 8GB | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | • | • | • |
| CRUCIAL | BLS4K4G4D240FSA | 4GB | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | • | • | • |
| ADATA | AX4U2400W4G16-DRZ | 4GB | SS | N/A | Heat-Sink Package | 16-16-16 | 1.2V | • | • | • |
| GEIL | GPR416GB2400C15QC | 4GB | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| MUSHKIN | 997199F | 8GB | DS | N/A | Heat-Sink Package | 15-15-15-35-50 | 1.2V | • | • | • |
| HyperX | HX424C15FBK4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-35-56 | 1.2V | • | • | |
| APACER | 78.C1GMA.AF30B | 8GB | DS | SK HYNIX | H5AN4G8NMFR | 16-16-16-36 | 1.2V | • | • | • |
| PNY | MD16GK2D4240015AB | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| V-COLOR | TD8G16C16-UHK | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | 16-16-16-35 | 1.2V | • | • | • |
| TEAM | TPAD48G2400HC16BK | 8GB | DS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | • | • | • |
| G.SKILL | F4-2400C15D-169GVR | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| APACER | AHU08GGB24CDT7G | 8GB | DS | N/A | Heat-Sink Package | 16-16-16-36 | | • | • | • |
| CORSAIR | CM4X8GE2400C14K4-CN | 8GB | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | • | • | |
| CORSAIR | CMK8GX4M1A2400C14 | 8GB | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | • | • | |
| PATRIOT | PV416G240C5QK | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| PATRIOT | PSD44G240081 | 4GB | SS | PAIROT | PM512M8D4BU-083 | | | • | • | |
| APACER | 78.B1GMA.AF20B | 4GB | SS | SK HYNIX | H5AN4G8NMFR | 16-16-16-36 | 1.2V | • | • | |
| HyperX | HX424C15FBK4/16 | 4GB | SS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| G.SKILL | F4-2400C14Q2-128GRK | 16GB | DS | N/A | Heat-Sink Package | 14-14-14-34 | 1.2V | • | • | |
| G.SKILL | F4-2400C14Q-16GRK | 4GB | SS | N/A | Heat-Sink Package | 14-14-14-34 | 1.2V | • | • | • |
| G.SKILL | F4-2400C15Q-16GRR | 4GB | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| CRUCIAL | CT16G4RFS424A.18FA1 | 16GB | DS | MICRON | 5JA47D9SRK | | 1.2V | | | |
| AVEXIR | AVD4UZ124001608G-4COR | 8GB | DS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| G.SKILL | F4-2400C15S-8GRK | 8GB | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | |
| AVEXIR | AVD4UZ124001604G-4COB | 4GB | SS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| HyperX | HX424C15FB/8 | 8GB | DS | N/A | Heat-Sink Package | 15-15-15-35-56 | 1.2V | • | • | |
| CRUCIAL | BLS8G4D240FSA.16FADG | 8GB | DS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | • | • | • |
| TEAM | TED48G2400C16BK | 8GB | DS | TEAM | T4D5128HT-24 | 16-16-16-39 | 1.2V | • | • | |
| HyperX | HX424C12PBK4/32 | 8GB | DS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| G.SKILL | F4-2400C15Q-32GRR | 8GB | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| PATRIOT | PSD48G240002 | 8GB | DS | PAIROT | 1621JB5454512X8DDR4 | | | • | • | |
| GOMOS | GRR-D4-2400-8GB | 8GB | SS | GOMOS | GD4N8G8F-UH | | | • | • | |
| GALAXY | GAL4AXLBM2400D16JE081C | 8GB | SS | GALAXY | GA4L1GM88BA093H | | 1.2V | • | • | • |
| GEIL | DDR48GB2400C16QC | 8GB | SS | GEIL | 1GX8DDR4 HL 1612 | 16-16-16-36 | 1.2V | • | • | |
| CORSAIR | CM4X8GE2400C16K4-CN | 8GB | DS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | • | • | • |
| LEORICE | DDR4/2400MHZ/CL15/1.2V | 32GB(8GB*4) | SS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| HyperX | HX424C12SB2K2/16 | 16GB | DS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| KINGSTON | KVR24N17D8/8-SP | 8GB | DS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| V-COLOR | TC48G24S817 | 8GB | SS | V-COLOR | TMC9486G2 | 15-15-15-35 | 1.2V | • | • | • |
| CORSAIR | CMD32GX4M4A2400C14 | 8GB | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | • | • | • |
| AMD | R748G2400U2S | 8GB | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | |
| MICRON | MTA16ATF2G64AZ-2G3B1 | 16GB | DS | MICRON | 5WB47D9TBH | | | • | • | • |
| MICRON | MTA8ATF1G64AZ-2G3B1 | 8GB | SS | MICRON | 5WB47D9TBH | 17-17-17-39-55 | 1.2V | • | • | • |
| APACER | AHU08GGB13CGT7G | 8GB | DS | N/A | N/A | | | | • | |
| HyperX | HX424C12SB2K4/16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| HyperX | HX424C12SB2K4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| HyperX | HX424C15FBK2/16 | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| GALAXY | GAM4BXLBS240016JE164C | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.2V | • | • | • |
| APACER | AH08GGB24CDT5H | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | 16-16-16-36 | | • | • | • |
| CORSAIR | CMK8GX4M2A2400C14 | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | • | • | • |
| CORSAIR | CMK16GX4M2A2400C14 | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ124001608G-1COB | 8GB | DS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| AVEXIR | AVD4U24001608G-1BW | 8GB | DS | N/A | 512X8DDR4 | | 1.2V | ● | ● | ● |
| APACER | AU08GGB24CETBGC | 8GB | DS | APACER | AM6F60080THSB21550F | | | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-2COR | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● | ● |
| V-COLOR | 8GTC48G24S817-IMS | 32GB(8GB*4) | SS | V-COLOR | N/A | | 1.2V | ● | ● | ● |
| CORSAIR | CMD32GX4M4A2400C12 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● | ● |
| G.SKILL | F4-2400C15Q-64GIS | 64GB(16GB*4) | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● | ● |
| G.SKILL | F4-2400C15Q-32GNT | 32GB(8GB*4) | SS | G.SKILL | D4 1GM8GE15 | | 1.2V | ● | ● | ● |
| CRUCIAL | BLS8G4D24OFSB.16FARG | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● | |
| GEIL | GLW416GB2400C15DC | 8GB | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● | ● |
| TEAM | TDTRD48G2400HC15ABK | 8GB | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● | ● |
| TEAM | TDRED48G2400HC14BK | 8GB | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | ● | ● | |
| GEIL | GRP416GB2400C16DC | 8GB | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.2V | ● | ● | ● |
| ADATA | AX4U2400W8G16-BRZ | 8GB | DS | N/A | Heat-Sink Package | 16-16-16 | 1.2V | ● | ● | ● |
| HyperX | HX424C15FB/16 | 16GB | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● | ● |
| CRUCIAL | BLS8G4D240FSC.16FARG | 8GB | DS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | ● | ● | ● |
| CORSAIR | CMK32GX4M2A2400C14 | 32GB(16GB*2) | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | ● | ● | ● |
| GALAXY | GAM4HFL1BM2400D15IE08IC | 8GB | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● | ● |
| CORSAIR | CMK32GX4M4A2400C16R | 32GB(8GB*4) | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | ● | ● | ● |
| CORSAIR | CMD16GX4M4B2400C10 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 10-12-12-28 | 1.35V | ● | ● | ● |
| MUSHKIN | 997199T | 16GB(8GB*2) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● | ● |
| GEIL | 8G2133C151.2V | 8GB | DS | GEIL | 512X8DDR4Y | | 1.2V | ● | ● | |
| TEAM | TED416G2400C16BK | 16GB | DS | TEAM | T4D10248MT-24 | 16-6-16-39 | 1.2V | ● | ● | ● |
| TEAM | TCD44G2400C14BK | 4GB | SS | Skhymix | H5AN4G8NAFR | 14-16-16-31 | 1.2V | ● | ● | ● |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| TIGO | TMKU8GF28-2400U | 8GB | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● | ● |
| APACER | AU08GGB24CEYBGC | 8GB | SS | APACER | AM6F6308MHHSB2 | 17-17-17-39 | 1.2V | ● | ● | ● |
| ADATA | AX4U240038G16-BWZ | 64GB(8GB*8) | SS | N/A | Heat-Sink Package | 16-16-16 | 1.2V | ● | ● | ● |
| ADATA | AX4U2400316G16-SBF | 256GB(16GB*16) | DS | N/A | Heat-Sink Package | 16-16-16 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-4COR | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | | 1.2V | ● | ● | ● |
| KINGSTON | TF24D4U7S8MB-8 | 8GB | SS | MICON | 6SB77D9TBH | | | ● | ● | ● |
| KINGSTON | TF24D4U7S1MBD-2 | 2GB | SS | MICON | 6GB77D9TGQ | | | | ● | ● |
| KINGSTON | TF24D4U7S8MBD-4 | 4GB | SS | MICON | 6QB77D9TGG | | | ● | ● | ● |
| RAMAXEL | RMUA5120MB86H9F-2400 | 4GB | SS | MICON | 6RB77D9TBK | | | ● | ● | ● |
| RAMAXEL | RMUA5120MB76H8F-2400 | 2GB | SS | MICON | 6GB77D9TGQ | | | | ● | ● |
| CRUCIAL | CT4G4DFS824A.C8FBD2 | 4GB | SS | MICON | 60B45C9BGX | 17-17-17-39 | 1.2V | | | |
| CRUCIAL | CT8G4DFS824A.M8FB | 8GB | SS | MICON | 6QB77D9TBH | 17-17-17-39 | 1.2V | | | |
| ADATA | AX4U240038G16-SBF | 8GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.2V | ● | ● | ● |
| ADATA | AX4U2400W8G16-DRD | 8GB | DS | N/A | Heat-Sink Package | 17-17-17-39 | 1.2V | ● | ● | ● |
| ADATA | AX4U2400316G16-DRD | 16GB | DS | N/A | Heat-Sink Package | 17-17-17-39 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2400C15Q2-64GRK | 64GB(8GB*8) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● | ● |
| TEAM | TCD48G2400C14BK | 8GB | SS | TEAM | T4D10248MT-24 | 15-16-16-31 | 1.2V | ● | ● | ● |
| HyperX | HX424C12PB2K4/16 | 16GB(4GB*4) | SS | - | - | 12-13-13-35 | 1.2V | ● | ● | ● |
| HyperX | HX424C12SB2/4(XMP) | 4GB | SS | - | - | 12-14-14-35 | 1.35V | ● | ● | ● |
| HyperX | HX424C12SB2/8(XMP) | 8GB | DS | - | - | 12-14-14-35 | 1.35V | ● | ● | ● |
| HyperX | HX424C12SB2K2/16(XMP) | 16GB(8GB*2) | DS | SK hynix | H5AN4G8NAFR-TFC | 12-14-14-35 | 1.35V | ● | ● | |
| HyperX | HX424C12SB2K4/32(XMP) | 32GB(8GB*4) | DS | SK hynix | H5AN4G8NAFR-TFC | 12-14-14-35 | 1.35V | ● | ● | |
| HyperX | HX424C15FB2K4/32(XMP) | 32GB(8GB*4) | SS | - | - | 15-15-15-35 | 1.2V | ● | ● | ● |
| HyperX | HX424C15FB/4(XMP) | 4GB | SS | - | - | 15-15-5-35 | 1.2V | ● | ● | ● |
| HyperX | HX424C15FB/8(XMP) | 8GB | SS | - | - | 15-15-15-35 | 1.2V | ● | ● | ● |
| HyperX | HX424C15FBK2/8(XMP) | 8GB(4GB*2) | SS | - | - | 15-15-5-35 | 1.2V | ● | ● | ● |
| HyperX | HX424C15FBK4/64(XMP) | 64GB(16GB*4) | DS | - | - | 15-15-15-35 | 1.2V | ● | ● | ● |
| KINGSTON | KVR24N17D8/16 | 16GB | DS | Micron | D9SRJ | 17-17-17-39 | 1.2V | ● | ● | ● |
| KINGSTON | KVR24N17D8/8 | 8GB | DS | Micron | D9TGG | 17-17-17-39 | 1.2V | ● | ● | ● |
| KINGSTON | KVR24N17S8/4 | 4GB | SS | Micron | D9TGG | 17-17-17-39 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4U24001604G-4CIR(XMP) | 32GB(8GB*4) | SS | - | - | 16-16-16-36 | 1.2V | ● | ● | |
| AVEXIR | AVD4U24001608G-4M | 32GB(8GB*4) | DS | SK Hynix | H5AN4G8NMFRTFC | 16-16-16-39 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4U24001608G-4M(XMP) | 32GB(4GB*8) | DS | SK Hynix | H5AN4G8NMFRTFC | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-4COR(XMP) | 16GB(4GB*4) | DS | - | - | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4U24001604G-1BW | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-1COR | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-1COB | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-1COW | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-1COY | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-1COG | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-1COO | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-1CWW | 4GB(4GB*1) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-2COR | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-2COB | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-2COW | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-2COY | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-2COG | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-2COO | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-2CWW | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-4COW | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-4COY | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-4COG | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-4COO | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001604G-4CWW | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-1COR | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-1COW | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-1COY | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-1COG | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-1COO | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-1CWW | 8GB(8GB*1) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-2COB | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-2COW | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-2COY | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-2COG | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-2COO | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-2CWW | 16GB(8GB*2) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-4COB | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-4COW | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-4COY | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-4COG | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-4COO | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4UZ124001608G-4CWW | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 16-16-16-36 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2400C15Q-16GVR | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-16GVB | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-16GVG | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-16GVK | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-16GVS | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-16GRK | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-16GRB | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q2-128GVR | 128GB(16GB*8) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q2-128GVK | 128GB(16GB*8) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-32GVR | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-32GVB | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-32GVG | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-32GVK | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-32GVS | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL | F4-2400C15Q-32GRK | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2 | ● | ● | ● |
| ADATA | AD4U2400W4G17-B | 4GB | SS | SK Hynix | H5AN4G8NAFRTFC | 15-15-15-35 | 1.2 | ● | ● | ● |
| ADATA | AD4U2400W8G17-B | 8GB | DS | SK Hynix | H5AN4G8NAFRTFC | 15-15-15-35 | 1.2 | ● | ● | ● |
| Apacer | 78.B1GMS.4050B | 16GB(4GB*4) | SS | Samsung | K4A4G085WD | 17-17-17-39 | - | ● | ● | |
| Apacer | 78.C1GMS.4010B | 32GB(8GB*4) | DS | Samsung | K4A4G085WD | 17-17-17-39 | - | ● | ● | ● |
| Apacer | EK.08G2T.GEC | 8GB | SS | - | - | 16-16-16-36 | - | ● | ● | ● |
| Apacer | EL.08G2T.GFM | 8GB | SS | Apacer | AM6F6308MHHSB2 | 17-17-17-39 | - | ● | ● | ● |
| CORSAIR | CMD16GX4M4A2400C14 | 16GB(4GB*4) | SS | - | - | 14-16-16-31 | 1.2 | ● | ● | ● |
| CORSAIR | CMK16GX4M2A2400C16 | 16GB(8GB*2) | DS | - | - | 16-16-16-39 | 1.2 | ● | ● | ● |
| CORSAIR | CMK16GX4M4A2400C14 | 16GB(4GB*4) | SS | - | - | 14-16-16-31 | 1.2 | ● | ● | ● |
| CORSAIR | CMK32GX4M4A2400C16 | 32GB(8GB*4) | SS | - | - | 16-16-16-39 | 1.2 | ● | ● | ● |
| CORSAIR | CMK64GX4M4A2400C14 | 64GB(16GB*4) | DS | - | - | 14-16-16-31 | 1.2 | ● | ● | ● |
| Crucial | CT16G4DFD824A.16FB1 | 16GB | DS | Micron | D9TBH | 17-17-17-39 | 1.2 | ● | ● | ● |
| Crucial | CT8G4DFS824A.8FB1 | 8GB | SS | - | - | 17-17-17-39 | 1.2 | ● | ● | ● |
| Foxteonn | FEU8GN51208KC2400H | 8GB | DS | Nanya | NT5AD512M8B1-FM | 17-17-17-39 | - | ● | ● | ● |
| G.SKILL | F4-2400C15Q2-128GRK | 128GB(16GB*8) | DS | - | - | 15-15-15-35 | 1.2 | ● | ● | ● |
| GeIL | GLR464GB2400C14QC | 64GB(16GB*4) | DS | - | - | 14-14-14-35 | 1.2 | ● | ● | ● |
| GeIL | GPR432GB2400C15QC | 32GB(8GB*4) | DS | - | - | 15-15-15-35 | 1.2 | ● | ● | ● |
| HyperX | HX424C12SB2/4 | 4GB | SS | - | - | 12-14-14-35 | 1.35 | ● | ● | ● |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| HyperX | HX424C12SB2/8 | 8GB | DS | - | - | 12-14-14-35 | 1.35 | ● | ● | ● |
| HyperX | HX424C15B2K4/32 | 32GB(8GB*4) | SS | - | - | 15-15-15-35 | 1.2 | ● | ● | ● |
| HyperX | HX424C15FB/4 | 4GB | SS | - | - | 15-15-5-35 | 1.2 | ● | ● | ● |
| HyperX | HX424C15FBK2/8 | 8GB(4GB*2) | SS | - | - | 15-15-5-35 | 1.2 | ● | ● | ● |
| HyperX | HX424C15FBK4/64 | 64GB(16GB*4) | DS | - | - | 15-15-15-35 | 1.2 | ● | ● | ● |
| SK Hynix | HMA81GU6AFR8N-UH | 8GB | SS | SK Hynix | H5AN8GBNAFRUHC | 17-17-17-39 | - | ● | ● | ● |
| SK Hynix | HMA82GU6AFR8N-UH | 16GB | DS | SK Hynix | H5AN8GBNAFRUHC | 17-17-17-39 | - | ● | ● | ● |
| SK Hynix | HMA851U6AFR6N-UH | 4GB | SS | SK Hynix | H5AN8G6NAFRUHC | 17-17-17-39 | - | ● | ● | |
| V-color | TC48G24S817-IMS | 8GB | SS | - | - | 17-17-17-39 | 1.2 | ● | ● | ● |
| V-color | TD4G8C17-UH | 4GB | SS | V-color | DW3J0460HM | 15-15-15-36 | 1.2 | ● | ● | ● |
| V-color | TD8G16C17-UH | 8GB | DS | V-color | A4G8H-24CS | 17-17-17-39 | 1.2 | ● | ● | ● |

## DDR4 2666 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 |
| CORSAIR | CMK16GX4M4A2666C16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • | • |
| CORSAIR | CMD32GX4M4A2666C15 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.2V | • | • | • |
| G.SKILL | F4-2666C15Q-16GRR | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| PATRIOT | PX416G266C5QK | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| G.SKILL | F4-2666C16Q2-64GRB | 64GB(8GB*8) | DS | N/A | Heat-Sink Package | 16-16-16-36 | 1.2V | • | • | • |
| TEAM | TCD48G2666C15ABK | 8GB | DS | SK HYNIX | H5AN4G8NMFR | 15-15-15-35 | 1.2V | • | • | • |
| TEAM | TCD44G2666C15ABK | 4GB | SS | SEC 443 BCPB | K4A4G085WD | 15-15-15-35 | 1.2V | • | • | • |
| MUSHKIN | 997192F | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| HyperX | HX426C13PBK4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.35V | • | • | |
| HyperX | HX426C15FBK4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.2V | • | • | • |
| CORSAIR | CMD128GX4M8A2666C15 | 128GB(16GB*4) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.2V | • | • | • |
| HyperX | HX426C15FBK4/16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.2V | • | • | • |
| CRUCIAL | BLE4G4D26AFEA.8FAD | 8GB | SS | N/A | Heat-Sink Package | 16-16-17-36 | 1.2V | • | • | • |
| CRUCIAL | BLE8G4D26AFEA.16FAD | 8GB | DS | N/A | Heat-Sink Package | 16-17-17-36 | 1.2V | • | • | |
| AVEXIR | AVD4UZ126661504G-4COB | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | • |
| PATRIOT | PV416G266C5QK | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661504G-4IPROG | 16G(4G*4) | DS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661504G | 8G(4G*2) | DS | N/A | Heat-Sink Package | | 1.2V | • | • | |
| CORSAIR | CMU32GX4M2A2666C16 | 32GB(16GB*2) | DS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • | |
| CORSAIR | CMK32GX4M4A2666C16 | 32GB(8GB*4) | DS | N/A | | 16-18-18-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661508G-4COB | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | • |
| CRUCIAL | BLT4G4D26AFTA.8FADG | 4GB | SS | N/A | Heat-Sink Package | 16-17-17-36 | 1.2V | • | • | • |
| CRUCIAL | BLT8G4D26AFTA.16FAD | 8GB | DS | N/A | Heat-Sink Package | 16-17-17-36 | 1.2V | • | • | • |
| KLEVV | IMA41GU6MFR8N-C F0 | 8GB | DS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | • | • | • |
| HyperX | HX426C13SB2K4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.35V | • | • | • |
| HyperX | HX426C13SB2K4/16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.35V | • | • | • |
| PNY | MD16GK4D4266615AXR | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| CORSAIR | CMK16GX4M2A2666C16 | 16GB(8GB*2) | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • | • |
| CORSAIR | CMK32GX4M2A2666C16 | 32GB(16GB*2) | DS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • | • |
| CORSAIR | CMK16GX4M4A2666C15 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.2V | • | • | • |
| CORSAIR | CMK64GX4M4A2666C16 | 64GB(16GB*4) | DS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • | • |
| G.SKILL | F4-2666C15Q-32GRR | 32GB(8GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661704G-4COR | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 17-17-17-37 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661708G-4COR | 32GB(8GB*4) | SS | N/A | Heat-Sink Package | 17-17-17-37 | 1.2V | • | • | • |
| CORSAIR | CMK32GX4M4A2666C15 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661516G-2IPROG | 32GB(16GB*2) | DS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661516G-2RDROG | 32GB(16GB*2) | DS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661516G-4IPROG | 64GB(16GB*4) | DS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661516G-4RDROG | 64GB(16GB*4) | DS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661504G-2IPROG | 8GB(4GB*2) | DS | Samsung | 512X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661504G-2RDROG | 8GB(4GB*2) | DS | Samsung | 512X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661504G-4RDROG | 16GB(4GB*4) | DS | Samsung | 512X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661508G-2IPROG | 16GB(8GB*2) | SS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661508G-2RDROG | 16GB(8GB*2) | SS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661508G-4IPROG | 32GB(8GB*4) | SS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661508G-4RDROG | 32GB(8GB*4) | SS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661504G-2RD | 8GB(4GB*2) | DS | Samsung | 512X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661504G-2RDGT | 8GB(4GB*2) | DS | Samsung | 512X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661504G-4RD | 16GB(4GB*4) | DS | Samsung | 512X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661504G-4RDGT | 16GB(4GB*4) | DS | Samsung | 512X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661508G-2RD | 16GB(8GB*2) | SS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661508G-2RDGT | 16GB(8GB*2) | SS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661508G-4RD | 32GB(8GB*4) | SS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ126661508G-4RDGT | 32GB(8GB*4) | SS | Samsung | 1024X8DDR4 | 15-15-15-35 | 1.2V | • | • | • |
| HyperX | HX426C13SB2/4 | 4GB | SS | - | - | 13-15-15-39 | 1.35V | • | • | • |
| HyperX | HX426C13SB2/8 | 8GB | DS | - | - | 13-15-15-39 | 1.35V | • | • | • |
| HyperX | HX426C13SB2K2/16 | 16GB(8GB*2) | DS | - | - | 13-15-15-39 | 1.35V | • | • | • |
| HyperX | HX426C13SB2K2/8 | 8GB(4GB*2) | SS | - | - | 13-15-15-39 | 1.35V | • | • | • |
| HyperX | HX426C15FB/4 | 4GB | SS | - | - | 15-17-17-35 | 1.2V | • | • | • |
| HyperX | HX426C15FB/8 | 8GB | DS | - | - | 15-17-17-35 | 1.2V | • | • | • |
| HyperX | HX426C15FBK2/16 | 16GB(8GB*2) | DS | - | - | 15-17-17-35 | 1.2V | ● | ● | ● |
| HyperX | HX426C15FBK2/8 | 8GB(4GB*2) | SS | - | - | 15-17-17-35 | 1.2V | ● | ● | ● |
| HyperX | HX426C15SBK4/64 | 64GB(16GB*4) | DS | - | - | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-16GVR | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-16GVB | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-16GVG | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-16GVK | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-16GVS | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-16GRK | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-16GRB | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-32GVR | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-32GVB | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-32GVG | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-32GVK | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-32GVS | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-32GRK | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C15Q-32GRB | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C16Q2-128GVR | 128GB(16GB*8) | DS | | | 16-16-16-36 | 1.2V | ● | ● | ● |
| AVEXIR | AVD4U26661504G-4CIR | 4GB | SS | - | - | 15-15-15-35 | 1.2V | ● | ● | ● |
| CORSAIR | CMD16GX4M2A2666C15 | 16GB(8GB*2) | DS | - | - | 15-17-17-35 | 1.2V | ● | ● | ● |
| CORSAIR | CMD16GX4M4A2666C15 | 16GB(4GB*4) | SS | - | - | 15-17-17-35 | 1.2V | ● | ● | ● |
| CORSAIR | CMD16GX4M4A2666C16 | 16GB(4GB*4) | SS | - | - | 16-18-18-35 | 1.2V | ● | ● | ● |
| CORSAIR | CMD32GX4M4A2666C16 | 32GB(8GB*4) | DS | - | - | 16-18-18-35 | 1.2V | ● | ● | ● |
| CORSAIR | CMD64GX4M8A2666C15 | 64GB(8GB*8) | DS | - | - | 15-17-17-35 | 1.2V | ● | ● | ● |
| CORSAIR | CMD8GX4M2A2666C15 | 8GB(4GB*2) | DS | - | - | 15-17-17-35 | 1.2V | ● | ● | ● |
| CORSAIR | CMK32GX4M2A2666C16R | 32GB(16GB*2) | DS | - | - | 16-18-18-35 | 1.2V | ● | ● | ● |
| CORSAIR | CMK32GX4M4A2666C16R | 32GB(8GB*4) | DS | - | - | 16-18-18-35 | 1.2V | ● | ● | ● |
| G.SKILL | F4-2666C16Q2-128GVK | 128GB(16GB*8) | DS | - | - | 16-16-16-36 | 1.2V | ● | ● | ● |
| Klevv | KM4C4GX4N-2666-15-15-15-35-0 | 4GB | SS | - | - | 15-15-15-35 | 1.2V | ● | ● | ● |
| Klevv | KM4C4GX4N-2666-15-15-15-35-1 | 4GB | SS | - | - | 15-15-15-35 | 1.2V | ● | ● | ● |
| Klevv | KM4C8GX4N-2666-15-15-15-35-0 | 8GB | DS | - | - | 15-15-15-35 | 1.2V | ● | ● | ● |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Klevv | KM4C8GX4N-2666-15-15-15-35-1 | 8GB | DS | - | - | 15-15-15-35 | 1.2V | ● | ● | ● |

## DDR4 2800Qualified 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 |
| CORSAIR | CMK16GX4M4A2800C16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | • | • | • |
| HyperX | HX428C14PB2K4/16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • | • |
| PATRIOT | PX416G280C6QK | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | • | • | • |
| GLOWAY | PC4-22400 | 4GB | SS | SK HYNIX | H5AN4G8NMFR | 16-16-16-36 | 1.2V | • | • | |
| PANRAM | PUD42800C164G4NJW | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.25V | • | • | • |
| MUSHKIN | 994207F | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.2V | • | • | |
| HyperX | HX428C14PBK4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • | • |
| AVEXIR | AVD4UZ128001604G-4COB | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36-51 | 1.2V | • | • | • |
| AVEXIR | AVD4UZ128001608G-4COB | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36-51 | 1.2V | • | • | • |
| CORSAIR | CMK32GX4M4A2800C16 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | • | • | • |
| HyperX | HX428C14SB2K4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • | • |
| HyperX | HX428C14SB2K4/16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • | • |
| TEAM | TDGED48G2800HC16ABK | 16GB(8GB*2) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.2V | • | • | |
| PATRIOT | PV416G280C6QK | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | • | • | |
| ADATA | Digital Storm | 8GB | DS | SK HYNIX | HMA54G8NAFR | | | • | • | |
| TEAM | TCD44G2800C16ABK | 4GB | SS | Skhymix | H5AN4G8NAFR | 16-16-16-36 | 1.2V | • | • | • |
| TEAM | TCD48G2800C16ABK | 8GB | SS | TEAM | T4D10248HT-30 | 16-16-16-36 | 1.2V | • | • | • |
| G.SKILL | F4-2800C16D-16GRR | 16GB(8GB*2) | SS | N/A | Heat-Sink Package | | 1.2V | • | • | |
| ADATA | AX4U280038G17-SBF | 64GB(8GB*8) | SS | N/A | Heat-Sink Package | 17-17-17 | 1.2V | • | • | • |
| ADATA | AX4U2800316G16-SBF | 16GB | DS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| CORSAIR | CMD32GX4M4A2800C16 | 8GB | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | • | • | • |
| G.SKILL | F4-2800C14Q-64GVK | 64GB(16GB*4) | DS | N/A | Heat-Sink Package | 14-14-14-35 | 1.35V | • | • | • |
| G.SKILL | F4-2800C16Q-32GVR | 32GB(8GB*4) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | • | • | • |
| AVEXIR | AVD4UZ128001504G-4BZ1RR | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.35V | • | • | • |
| AVEXIR | AVD4UZ128001508G-4BZ1RR | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.35V | • | • | • |
| CORSAIR | CMD16GX4M4A2800C16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | • | • | • |
| CORSAIR | CMK64GX4M8B2800C14 | 64GB(8GB*8) | DS | N/A | Heat-Sink Package | 14-16-16-36 | 1.35V | • | • | • |
| HyperX | HX428C14SB2/4 | 4GB | SS | - | - | 14-16-16-39 | 1.35 | • | • | • |
| HyperX | HX428C14SB2/8 | 8GB | DS | - | - | 14-16-16-39 | 1.35 | • | • | • |
| HyperX | HX428C14SB2K2/8 | 8GB(4GB*2) | SS | - | - | 14-16-16-39 | 1.35 | • | • | • |
| G.SKILL | F4-2800C14Q-64GVG | 64GB(16GB*4) | DS | | | 14-14-14-35 | 1.35 | • | • | • |
| G.SKILL | F4-2800C14Q-64GVS | 64GB(16GB*4) | DS | | | 14-14-14-35 | 1.35 | • | • | • |
| G.SKILL | F4-2800C14Q-64GVB | 64GB(16GB*4) | DS | | | 14-14-14-35 | 1.35 | • | • | • |
| G.SKILL | F4-2800C14Q-64GVR | 64GB(16GB*4) | DS | | | 14-14-14-35 | 1.35 | • | • | • |
| G.SKILL | F4-2800C16Q-16GVR | 16GB(4GB*4) | SS | | | 16-16-16-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C16Q-16GVB | 16GB(4GB*4) | SS | | | 16-16-16-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C16Q-16GVK | 16GB(4GB*4) | SS | | | 16-16-16-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C16Q-16GVG | 16GB(4GB*4) | SS | | | 16-16-16-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C16Q-16GVS | 16GB(4GB*4) | SS | | | 16-16-16-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C16Q-32GVB | 32GB(8GB*4) | DS | | | 16-16-16-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C16Q-32GVK | 32GB(8GB*4) | DS | | | 16-16-16-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C16Q-32GVG | 32GB(8GB*4) | DS | | | 16-16-16-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C16Q-32GVS | 32GB(8GB*4) | DS | | | 16-16-16-36 | 1.2 | • | • | • |
| ADATA | AX4U2800316G16 | 16GB | DS | - | - | 16-16-16-36 | 1.2 | • | • | • |
| ADATA | AX4U2800W4G17-BRZ | 4GB | SS | - | - | 17-17-17-36 | 1.2 | • | • | • |
| ADATA | AX4U2800W8G15 | 8GB | DS | - | - | 15-16-16-35 | 1.25 | • | • | • |
| ADATA | AX4U2800W8G17-BRZ | 8GB | DS | - | - | 17-17-17-36 | 1.2 | • | • | • |
| Apacer | 78.BAGM8.AF20B | 16GB(4GB*4) | SS | - | - | 17-17-17-36 | - | • | • | • |
| Apacer | 78.CAGM8.AF30B | 32GB(8GB*4) | DS | - | - | 17-17-17-36 | - | • | • | • |
| Apacer | EK.16GAW.KFAK2 | 8GB | DS | - | - | 17-17-17-36 | - | • | • | • |
| CORSAIR | CMD32GX4M4A2800C15 | 32GB(8GB*4) | DS | - | - | 15-17-17-36 | 1.2 | • | • | • |
| CORSAIR | CMK16GX4M4A2800C16 | 16GB(4GB*4) | SS | - | - | 16-16-18-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C15Q2-128GRKD | 128GB(16GB*8) | DS | - | - | 15-15-15-35 | 1.35 | • | • | • |
| G.SKILL | F4-2800C15Q2-64GRK | 64GB(8GB*8) | DS | - | - | 15-16-16-35 | 1.25 | • | • | • |
| G.SKILL | F4-2800C16Q-16GRR | 16GB(4GB*4) | SS | - | - | 16-16-16-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C16Q-32GRK | 32GB(8GB*4) | DS | - | - | 16-16-16-36 | 1.2 | • | • | • |
| G.SKILL | F4-2800C16Q-32GRR | 32GB(8GB*4) | DS | - | - | 16-16-16-36 | 1.2 | • | • | • |
| GeIL | GPR416GB2800C16QC | 16GB(4GB*4) | SS | - | - | 16-16-16-36 | 1.2 | • | • | • |
| GeIL | GPR432GB2800C16QC | 32GB(8GB*4) | DS | - | - | 16-16-16-36 | 1.2 | • | • | • |
| HyperX | HX428C14PBK8/64 | 64GB(8GB*8) | DS | - | - | 14-15-15-39 | 1.35 | • | • | • |
| HyperX | HX428C14SB2K2/16 | 16GB(8GB*2) | DS | - | - | 14-16-16-39 | 1.35 | ● | ● | ● |
| Klevv | IMA451U6MFR8N-DG0 | 4GB | SS | - | - | 16-16-16-36 | 1.2 | ● | ● | ● |

## DDR4 3000 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 |
| CORSAIR | CMD32GX4M2B3000C15 | 32GB(16GB*2) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • | • |
| HyperX | HX430C15PB2K4/16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • | • |
| G.SKILL | F4-3000C15Q-16GRR | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.35V | • | • | • |
| TEAM | TCD48G3000C16ABK | 8GB | DS | TEAM | T4D5128HT-30 | 16-16-16-36 | 1.35V | • | • | |
| TEAM | TCD44G3000C16ABK | 4GB | SS | TEAM | T4D5128HT-30 | 16-16-16-36 | 1.35V | • | • | • |
| PANRAM | PUD43000C154G4NJW | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • | • |
| HyperX | HX430C15PBK4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • | • |
| HyperX | HX430C15SB2K4/32 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • | • |
| AVEXIR | AVD4UZ130001604G-4COB | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36-51 | 1.35V | • | • | • |
| AVEXIR | AVD4UZ130001608G-4COB | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36-51 | 1.35V | • | • | • |
| HyperX | HX430C16PBK4/64 | 64GB(16GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • | |
| HyperX | HX430C15SBK2/16 | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • | |
| TEAM | TCD48G3000C15ABK | 8GB | DS | SK HYNIX | H5AN4G8NMFR | 15-15-15-35 | 1.35V | • | • | |
| KLEVV | IM44GU48A30-GIIHMC | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18 | 1.35V | • | • | • |
| CORSAIR | CMK16GX4M2B3000C15 | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • | |
| HyperX | HX430C15SB2K4/16 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • | • |
| TEAM | TDGED48G3000HC16ABK | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | • | • | |
| PATRIOT | PV416G300C6QK | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | • | • | |
| G.SKILL | F4-3000C15D-32GVR | 32GB(16GB*2) | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.35V | • | • | |
| CORSAIR | CMK64GX4M4B3000C15 | 64GB(16GB*4) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • | |
| TEAM | TCD48G300C16ABK | 8GB | SS | Skhymix | H5AN8G8NMFR | 16-16-16-36 | 1.35V | • | • | • |
| ADATA | AX4U300038G16-DBZ | 8GB | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | • | • | • |
| ADATA | AX4U3000316G16-BGZ | 16G | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | • | • | • |
| CORSAIR | CMD16GX4M4B3000C15 | 4GB | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • | • |
| CORSAIR | CMK32GX4M2B3000C15 | 16G | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • | • |
| CORSAIR | CMU16GX4M2C3000C15 | 8GB | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • | • |
| CORSAIR | CMK16GX4M4B3000C15 | 4GB | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • | • |
| G.SKILL | F4-3000C15Q-32GRK | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.35V | • | • | • |
| CORSAIR | CMK8GX4M2B3000C15 | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • | • |
| HyperX | HX430C15PB3K2/16 | 16GB(8GB*2) | SS | - | - | 15-17-17-36 | 1.35 | • | • | • |
| HyperX | HX430C15PB3K2/32 | 32GB(16GB*2) | DS | - | - | 15-17-17-36 | 1.35 | • | • | • |
| HyperX | HX430C15PB3K2/8 | 8GB(4GB*2) | SS | - | - | 15-17-17-36 | 1.35 | • | • | • |
| HyperX | HX430C15PB3K4/16 | 16GB(4GB*4) | SS | - | - | 15-17-17-36 | 1.35 | • | • | • |
| HyperX | HX430C15PB3K4/32 | 32GB(8GB*4) | SS | - | - | 15-17-17-36 | 1.35 | • | • | • |
| HyperX | HX430C15PB3K4/64 | 64GB(16GB*4) | DS | - | - | 15-17-17-36 | 1.35 | • | • | • |

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| HyperX | HX430C15SB2/4 | 4GB | SS | - | - | 15-17-17-39 | 1.35 | • | • | • |
| HyperX | HX430C15SB2/8 | 8GB | DS | - | - | 15-17-17-39 | 1.35 | • | • | • |
| HyperX | HX430C15SB2K2/16 | 16GB(8GB*2) | DS | - | - | 15-17-17-39 | 1.35 | • | • | • |
| HyperX | HX430C15SB2K2/8 | 8GB(4GB*2) | SS | - | - | 15-17-17-39 | 1.35 | • | • | • |
| AVEXIR | AVD4U30001608G-4CIR | 32GB(8GB*4) | DS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001604G-4RD | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001608G-4RD | 32GB(8GB*4) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001604G-2BZ1RR | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001604G-2BZ1GY | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001604G-2BZ1SW | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001604G-2RD | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001604G-2RDGT | 8GB(4GB*2) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001604G-4BZ1RR | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001604G-4BZ1GY | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001604G-4BZ1SW | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001604G-4RDGT | 16GB(4GB*4) | SS | AVEXIR | 512X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001608G-2BZ1RR | 8GB(4GB*2) | SS | AVEXIR | 1024X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001608G-2BZ1GY | 8GB(4GB*2) | SS | AVEXIR | 1024X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001608G-2BZ1SW | 8GB(4GB*2) | SS | AVEXIR | 1024X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001608G-2RD | 8GB(4GB*2) | SS | AVEXIR | 1024X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001608G-2RDGT | 8GB(4GB*2) | SS | AVEXIR | 1024X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001608G-4BZ1RR | 16GB(4GB*4) | SS | AVEXIR | 1024X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001608G-4BZ1GY | 16GB(4GB*4) | SS | AVEXIR | 1024X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001608G-4BZ1SW | 16GB(4GB*4) | SS | AVEXIR | 1024X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| AVEXIR | AVD4UZ130001608G-4RDGT | 16GB(4GB*4) | SS | AVEXIR | 1024X8DDR4 | 16-18-18-36 | 1.35 | • | • | • |
| G.SKILL | F4-3000C14Q2-128GVRD | 128GB(16GB*8) | DS | | | 14-14-14-34 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C14Q2-128GVKD | 128GB(16GB*8) | DS | | | 14-14-14-34 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15D-8GTZB | 8GB(4GB*2) | SS | | | 15-16-16-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15D-8GVRB | 8GB(4GB*2) | SS | | | 15-16-16-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-16GTZ | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-16GVR | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-16GVB | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-16GVK | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-16GVG | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-16GVS | 16GB(4GB*4) | SS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-32GTZ | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-32GVR | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-32GVB | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-32GVK | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-32GVG | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-32GVS | 32GB(8GB*4) | DS | | | 15-15-15-35 | 1.35 | ● | ● | ● |
| ADATA | AX4U3000W4G16-BWZ | 4GB | SS | - | - | 16-16-16-36 | 1.35 | ● | ● | ● |
| ADATA | AX4U3000W8G16-BWZ | 8GB | DS | - | - | 16-16-16-36 | 1.35 | ● | ● | ● |
| Apacer | EK.16GAW.KFBK2 | 8GB | DS | - | - | 16-16-16-36 | - | ● | ● | ● |
| AVEXIR | AVD4U30001504G-4CIR | 16GB(4GB*4) | DS | - | - | 15-15-15-35 | 1.35 | ● | ● | ● |
| CORSAIR | CMD32GX4M4B3000C15 | 32GB(8GB*4) | DS | - | - | 15-17-17-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C14Q2-128GVK | 128GB(16GB*8) | DS | - | - | 14-14-14-34 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C15Q-16GRK | 16GB(4GB*4) | SS | - | - | 15-15-15-35 | 1.35 | ● | ● | ● |
| G.SKILL | F4-3000C16Q2-128GVKB | 128GB(16GB*8) | DS | - | - | 16-18-18-38 | 1.35 | ● | ● | ● |
| GeIL | GLR416GB3000C16QC | 16GB(4GB*4) | SS | - | - | 16-16-16-36 | 1.35 | ● | ● | ● |
| GeIL | GWW416GB3000C15DC | 16GB(8GB*2) | DS | GeIL | CG4L512G88BA093L | 15-17-17-35 | 1.35 | ● | ● | ● |
| Klevv | IM48GU48A30-GIIHMC | 8GB | DS | - | - | 16-18-18-36 | 1.35 | ● | ● | ● |
| PATRIOT | PV432G300C6QK-PE000378 | 32GB(8GB*4) | DS | - | - | 16-16-16-36 | 1.35 | ● | ● | ● |
| CORSAIR | CMU32GX4M4AC3000C15 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | ● | ● | ● |

## DDR4 3200 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| PANRAM | PUD43200C164G4NJW | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-39 | 1.35V | • | • | • |
| MUSHKIN | 997202F | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | • | • | • |
| G.SKILL | F4-3200C16D-8GVKB | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | | • |
| APACER | 78.BAGMD.AF20B | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | 16-16-16-36 | | • | • | • |
| PATRIOT | PV48G320C6K | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| HyperX | HX432C16PB3K4/32 | 32GB(8GB*4) | SS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| TEAM | TCD48G3200C16ABK | 8GB | SS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| ADATA | AX4U3200W8G16-BGZ | 8GB | DS | N/A | Heat-Sink Package | | 1.35V | • | • | • |

## DDR4 3300-3333 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| ADATA | AX4U3333W4G16-QGZ | 32GB(8GB*4) | SS | N/A | Heat-Sink Package | 16-16-16 | 1.35V | • | • | • |
| HyperX | HX433C16PB3K2/16 | 16GB(8GB*2) | SS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| G.SKILL | F4-3300C16Q-16GRKD | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | • | • | • |

## DDR4 3400 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| GEIL | GLWR416GB3400C16AQC | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | • | • | • |
| G.SKILL | F4-3400C16Q-16GRBD | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • | • |
| G.SKILL | F4-3400C16D-16GVK | 16GB(8GB*2) | DS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • | • |
| PATRIOT | PV48G340C6K | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| CORSAIR | CMU32GX4M4C3400C16R | 32GB(8GB*4) | SS | N/A | Heat-Sink Package | | 1.35V | • | • | • |

## DDR4 3466 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 | F4-3466C16Q-16GVK | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • | • |
| CORSAIR | CMD16GX4M4B3466C18 | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 18-19-19-39 | 1.35V | • | • | • |

## DDR4 3600 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 | F4-3600-C17Q-16GVK | 16GB(4GB*4) | SS | N/A | Heat-Sink Package | 17-18-18-38 | 1.35V | • | • | • |
| GALAXY | HOF4CALCS3600K17LD162C | 16GB(8G*2) | SS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| CORSAIR | CMK16GX4M2B3600C18 | 16GB(8GB*2) | SS | N/A | Heat-Sink Package | 18-19-19-39 | 1.35V | • | • | |
| CORSAIR | CMD8GX4M2B3600C18 | 4GB | SS | N/A | Heat-Sink Package | 18-19-19-39 | 1.35V | • | • | |

## DDR4 3733 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| CORSAIR | CMD8GX4M2B3733C17 | 4GB | SS | N/A | Heat-Sink Package | 17-19-19-39 | 1.35V | • | • | |

## DDR4 3866 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 |
|---|---|---|---|---|---|---|---|---|---|---|
| TEAM | TCD44G3866C18ABK | 4GB | SS | N/A | SEC537 | 18-20-20-39 | 1.35V | • | • | |

## DDR4 4000 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 | F4-4000C19D-8GTZ | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | 19-21-21-41 | 1.35V | • | • | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| **CORSAIR** | CMK8GX4M2B4000C19R | 4GB | SS | N/A | Heat-Sink Package | 19-23-23-45 | 1.35V | • | • |
| **G.SKILL** | F4-4000C19D-16GTZSW | 8GB | SS | N/A | Heat-Sink Package | 19-21-21-41 | 1.35V | • | • |

**DDR4 4133 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 |
| **GEIL** | GWW48GB4133C19DC | 8GB(4GB*2) | SS | GEIL | CG4L512G88BA093AU | 19-25-25-45 | 1.4V | • | • | |
| **G.SKILL** | F4-4133C19D-16GTZKW | 8GB | SS | N/A | Heat-Sink Package | 19-21-21-41 | 1.35V | • | • | |

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 gray slots or the black slots as one pair of Dual-channel memory configuration
- **4 DIMM**: Supports 4 modules inserted into both the gray and black slots as two pairs of Dual-channel memory configuration

- 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