

PRIME J4005I-C

DDR4 2133 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/D S | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support | |
|-----------------|---------------------------------|----------------|-----------|-----------------|-------------------|-------------|---------|---------------------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM |
| SAMSUNG | M378A5143DB0--CPB | 4G | SS | SEC 428 BCPB | K4A4G085WD | 15-15-15-36 | 1.2V | ● | ● |
| SAMSUNG | M378A1G43DB0--CPB | 8G | 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 | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | | |
| KINGSTON | 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(Ver 4.23) | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | ● | ● |
| CRUCIAL | MTA8ATF51264AZ-2G1A1 | 4G | SS | MICRON | 4QA77D9RCQ | 15-15-15-36 | 1.2V | ● | ● |
| CORSAIR | CMV4GX4M1A2133C15 | 4G | SS | N/A | 4GA72Z9RGR | 15-15-15-36 | 1.2V | ● | ● |
| CORSAIR | CMV8GX4M1A2133C15 | 8G | DS | SEC 446 BCPB | K4A4G085WD | 15-15-15-36 | 1.2V | | |
| KINGSTON | HX421C14FB/8 | 8G | DS | N/A | Heat-Sink Package | 14-14-14-35 | 1.2V | | |
| APACER | 78.C1GM3.AF10B | 8G | DS | SK HYNIX | H5AN4G8NMFR | 16-16-16-36 | 1.2V | ● | ● |

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| KINGSTON | HX421C13SBK4/16 | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | ● | ● |
| KINGSTON | KVR21N15D8/8 | 8G | DS | SK HYNIX | H5AN4G8NAFR | 15-15-15-36 | 1.2V | ● | ● |
| GALAXY | GAM4DBLBM2133D15IE041C | 4G | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | | |
| GALAXY | GAM4DBLBM213315IE081C | 8G | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| AVEXIR | AVD4U21331508G-1C0B | 8G | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| CORSAIR | CMK16GX4M4A2133C13 (Ver5.29) | 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 | ● | ● |
| KINGSTON | HX421C14FBK4/32 | 32GB (8GB*4) | DS | N/A | Heat-Sink Package | 14-14-14-35 | 1.2V | | |
| TEKISM | T4U2133B8G15-SAD | 8G | 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 | ● | ● |
| CENTURY | PC4-17000 | 8G | DS | SK HYNIX | H5AN4G8NMFR | 15-15-15-36 | 1.2V | ● | ● |
| KINGSTON | KVR21N15S8/4 | 4G | SS | SK HYNIX | H5AN4G8NMFR | 15-15-15-36 | 1.2V | ● | ● |
| SAMSUNG | M393A1G40DB0-CPB0Q (ECC) | 8G | DS | SEC 540 BCPB | K4A4G045WD | | | | |
| ADATA | AX4U2133W4G15-QRZ | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | ● | ● |
| TEAM | TED48GM2133C15BK | 8G | DS | SK HYNIX | H5AN4G8NMFR | 15-15-15-36 | 1.2V | ● | ● |
| CUSO | PC4-17000 | 4G | SS | CUSO | 512X8DDR4 | 15-15-15-35 | 1.2V | | |

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| Transcend | TS1GLH72V1H (ECC) | 8G | DS | SEC552 | K4A4G085WEBCPB | | | | |
| ADATA | AD4U2133W8G15-B | 128GB(16x 8G) | 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 | 4G | SS | G.SKILL | D4 512M8GE15 | 15-15-15-35 | 1.2V | ● | ● |
| G.SKILL | F4-2133C15S-8GNT | 8G | DS | G.SKILL | D4 512M8GE15 | 15-15-15-35 | 1.2V | ● | ● |
| TEAM | TPAD44G2133HC15BK | 4G | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | ● | ● |
| APACER | AHU08GGB13CGT7G | 8G | DS | N/A | Heat-Sink Package | | | ● | ● |
| ASINT | SLB404G08-CCN2B 1615 | 8G | DS | SK HYNIX | H5AN4G8NMFR | | | | |
| PATRIOT | PSD48G21332 | 8G | DS | PAIROT | PM512M8D4BU-083 | | | ● | ● |
| APACER | AU08GGB13CDTBGC | 8G | DS | APACER | AM6F6008THSA11550 F | | | ● | ● |
| SAMSUNG | M378A1K43BB1-CPB | 8G | SS | SEC 610 | K4A8G085WBBCPB | | | ● | ● |
| KINGSTON | HX421C14FB2/8 | 8G | SS | N/A | Heat-Sink Package | | 1.2V | | |
| KINGSTON | HX421C14FBK2/8 | 8GB (4GB*2) | SS | N/A | Heat-Sink Package | | 1.2V | | |
| KINGSTON | HX421C14FB/4 | 4G | SS | N/A | Heat-Sink Package | | 1.2V | | |
| V-COLOR | TC48G21S818-IMS | 32GB(8GB*4) | SS | V-COLOR | N/A | | 1.2V | ● | ● |

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| TEAM | TED416G2133C15BK | 16G | DS | TEAM | T4D10248MT-21 | 15-15-15-36 | 1.2V | ● | |
| TIGO | TMKU8GF58-2133P | 8G | DS | N/A | PPE08-093TP | | 1.2V | ● | ● |
| SAMSUNG | M378A5143EB1-CPB | 4GB | SS | SEC 637 | E8GZ250WP | 15-15-15-36 | 1.2V | ● | ● |
| SAMSUNG | M378A5143EB1-CPB | 4GB | SS | SEC 607 | E8K4089YC | 15-15-15-36 | 1.2V | ● | ● |
| TEAM | TED48G2133C15BK | 8GB | SS | TEAM | T4D10248KT-21 | 15-15-15-36 | 1.2V | ● | ● |
| ANUCCELL | GRPIF1621033818594 | 8GB | DS | ANUCCELL | P4P4GF3BLF-GMT | 16-16-16-35 | 1.2V | ● | ● |
| GALAXY | GAL4AXLBM213315IE081C | 8GB | SS | GALAXY | GA4L1GM88BA093H | 15-15-15-35 | 1.2V | | |
| TIGO | TMKU8G868-2133P | 8GB | SS | | PP020-093E TP | 15-15-15-36 | 1.2V | ● | |
| Xiede | 1.2V-PC4-17000-1620 | 4GB | SS | MICON | 6GA77D9RGQ | 15-15-15-36 | 1.2V | ● | ● |
| Xiede | 1.2V-PC4-17000-1620 | 8GB | DS | SK HYNIX | H5AN4G8NMFR | 15-15-15-36 | 1.2V | ● | ● |
| V-COLOR | TC48G21S815 | 8GB | SS | V-COLOR | TMCB134HA3 | 15-15-15-36 | 1.2V | ● | ● |
| V-COLOR | TC48G21S815-iMS | 8GB | SS | V-COLOR | E0510 | 15-15-15-36 | 1.2V | ● | ● |
| SAMSUNG | M378A2K43BB1CPB | 16G | DS | SEC510 | K4A8G085WBBCPB | | 1.2V | ● | |
| G.SKILL | F4-2133C15Q-32GRR | 8G*4 | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.20V | ● | ● |
| G.SKILL | F4-2133C15Q2-64GRR | 8G*8 | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.20V | ● | ● |
| CRUCIAL | CT16G4DFD8213.C16FAD1 | 16G | DS | MICON | 6NA47C9BGD | | 1.2V | ● | |

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| CRUCIAL | CT8G4DFD8213.C16FDR2 | 8G | DS | MICON | 6UD75C9BHB | | 1.2V | | |
| CRUCIAL | CT4G4DFS8213.C8FBD2 | 4G | SS | MICON | 6SB45C9BHC | | 1.2V | ● | ● |
| GEIL | GFY48GB2133C15DC | 4G | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | ● | ● |
| Klevv | IM48GU88N21-FFFHMB | 8GB | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | ● | ● |
| Klevv | IM44GU48N21-FFFHAB | 4GB | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | ● | ● |
| Klevv | IM4AGU88N21-FFFHMB | 16GB | DS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | ● | |
| PATRIOT | PVE48G213C4GY | 8G | SS | N/A | Heat-Sink Package | | 1.2V | | |
| GEIL | GPR432GB2133C15QC | 8G | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | | |
| SK HYNIX | HMA451U6AFR8N-TF | 16GB(4*4GB) | SS | SK HYNIX | H5AN4G8NAFR | 15-15-15-36 | 1.2V | | |
| GLOWAY | STK4U2133D15041C/ PC4-17000 | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | | |
| G.SKILL | F4-2133C15Q-64GFX | 64GB(4*16GB) | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | | |
| G.SKILL | F4-2133C15Q-32GFX | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | | |
| G.SKILL | F4-2133C15S-8GDB | 8GB | SS | G.SKILL | D4 1GM8GDDP | 15-15-15-35 | 1.35V | | |
| AVANT | AVW6451U67J5213N3-SAEP | 4GB | SS | SEC 549 | K4A4G08 | 15--15-15-36 | 1.20V | | |
| AVANT | AVW641GU67J5213N2-SAEP | 8GB | DS | SEC 549 | K4A4G08 | 15--15-15-36 | 1.20V | | |
| AVANT | AVW642GU42J5213N2-SAEP | 16GB | DS | SEC 549 | K4A8G08 | 15--15-15-36 | 1.20V | | |

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| SanMax | SMD4-U4G28SE-21P | 4GB | SS | SEC 534 | K4A4G08 | 15-15-15-36 | 1.20V | | |
| CRUCIAL | CT16G4DFD8213.C16FH1 | 16GB | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.20V | | |
| ADATA | AD4U213338G15-B | 64GB(8x 8GB) | SS | N/A | PP020-093E TP | 15-15-15-36 | 1.20V | | |
| ADATA | AD4U2133W4G15-BP | 32GB(8x 4GB) | SS | N/A | PP022-093E TP | 15-15-15-36 | 1.20V | | |
| Ramsta | R2DD4N04G2133 | 4G | SS | Micron | 8 | 15-15-15-35 | 1.20V | | |
| Ramsta | R2DD4N08G2133 | 8GB | SS | Micron | 8 | 15-15-15-36 | 1.20V | | |
| APACER | AU16GGB13CDYBGC | 16GB | DS | APACER | AM6F6308MHSA1 | 15-15-15-36 | 1.2V | | |
| silicon power | SP004GBLFU213N02 | 4GB | SS | silicon power | 4N4083HABE 1723V | 15-15-15-36 | 1.20V | | |
| TEKISM | T4U2133B8G15-HYM | 16GB (2x 8GB) | DS | Skhynix | H5AN4G8NMFR | 15-15-15-36 | 1.20V | | |
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DDR4 2400 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/D S | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support | |
|----------------|-------------------|----------------|-----------|------------|-------------------|-------------|---------|---------------------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM |
| ADATA | AX4U2400W8G16-DRZ | 8G | 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 | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| GLOWAY | PC4-19200 | 4G | DS | N/A | Heat-Sink Package | 16-16-16-35 | 1.2V | ● | ● |

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| PANRAM | PUD42400C154G4NJW | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| PANRAM | PUD42400C158G4NJW | 8G | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| CORSAIR | CMK32GX4M4A2400C14 | 8G | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | | |
| CRUCIAL | BLS4K4G4D240FSA | 4G | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | ● | ● |
| ADATA | AX4U2400W4G16-DRZ | 4G | SS | N/A | Heat-Sink Package | 16-16-16 | 1.2V | ● | ● |
| GEIL | GPR416GB2400C15QC | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| MUSHKIN | 997199F | 8G | DS | N/A | Heat-Sink Package | 15-15-15-35-50 | 1.2V | ● | ● |
| KINGSTON | HX424C15FBK4/32 | 32GB (8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-35-56 | 1.2V | ● | ● |
| APACER | 78.C1GMA.AF30B | 8G | 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 | ● | ● |
| G.SKILL | F4-2400C15D-169GVR | 16GB (8GB*2) | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| APACER | AHU08GGB24CDT7G | 8G | DS | N/A | Heat-Sink Package | 16-16-16-36 | | ● | ● |
| CORSAIR | CM4X8GE2400C14K4-CN | 8G | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | ● | ● |
| CORSAIR | CMK8GX4M1A2400C14 | 8G | 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 | ● | ● |

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| KINGSTON | HX424C15FBK4/16 | 4G | SS | N/A | Heat-Sink Package | | 1.2V | ● | ● |
| G.SKILL | F4-2400C14Q2-128GRK | 16G | DS | N/A | Heat-Sink Package | 14-14-14-34 | 1.2V | ● | |
| G.SKILL | F4-2400C14Q-16GRK | 4G | SS | N/A | Heat-Sink Package | 14-14-14-34 | 1.2V | ● | ● |
| G.SKILL | F4-2400C15Q-16GRR | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| CRUCIAL | CT16G4RFS424A.18FA1 | 16G | DS | MICRON | 5JA47D9SRK | | 1.2V | | |
| AVEXIR | AVD4UZ124001608G-4COR | 8G | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● |
| AVEXIR | AVD4UZ124001604G-4COB | 4G | SS | N/A | Heat-Sink Package | | 1.2V | ● | ● |
| CRUCIAL | BLS8G4D240FSA.16FADG | 8G | 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 | ● | ● |
| KINGSTON | HX424C12PBK4/32 | 8G | DS | N/A | Heat-Sink Package | | 1.35V | ● | ● |
| G.SKILL | F4-2400C15Q-32GRR | 8G | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| PATRIOT | PSD48G240002 | 8G | DS | PAIROT | 1621JB5454512X8DDR 4 | | | ● | ● |
| GALAXY | GAL4AXLBM2400D16JE081C | 8G | SS | GALAXY | GA4L1GM88BA093H | | 1.2V | | |
| CORSAIR | CM4X8GE2400C16K4-CN | 8G | 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 | ● | ● |
| CORSAIR | CMD32GX4M4A2400C14 | 8G | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | ● | ● |

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| AMD | R748G2400U2S | 8G | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | ● | ● |
| MICRON | MTA16ATF2G64AZ-2G3B1 | 16G | DS | MICRON | 5WB47D9TBH | | | ● | |
| MICRON | MTA8ATF1G64AZ-2G3B1 | 8G | SS | MICRON | 5WB47D9TBH | 17-17-17-39-55 | 1.2V | ● | ● |
| KINGSTON | HX424C12SB2K4/16 | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | | 1.35V | ● | ● |
| KINGSTON | HX424C12SB2K4/32 | 32GB (8GB*4) | DS | N/A | Heat-Sink Package | | 1.35V | ● | ● |
| KINGSTON | 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 (2x 8G) | DS | N/A | Heat-Sink Package | 16-16-16-36 | | ● | ● |
| CORSAIR | CMK8GX4M2A2400C14 | 8GB (2x 4G) | SS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | ● | ● |
| CORSAIR | CMK16GX4M2A2400C14 | 16GB (2x 8G) | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | ● | ● |
| AVEXIR | AVD4UZ124001608G-1COB | 8G | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● |
| AVEXIR | AVD4U24001608G-1BW | 8G | DS | N/A | 512X8DDR4 | | 1.2V | ● | ● |
| APACER | AU08GGB24CETBGC | 8G | 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 | ● | ● |

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|-----------------|-----------------------------|--------------|----|------|-------------------|-------------|-------|---|---|
| G.SKILL | F4-2400C15Q-64GIS | 64GB(16GB*4) | DS | N/A | Heat-Sink Package | | 1.2V | ● | |
| CRUCIAL | BLS8G4D24OFSB.16FARG | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● |
| GEIL | GLW416GB2400C15DC | 8G | 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 | 8G | DS | N/A | Heat-Sink Package | 16-16-16 | 1.2V | ● | ● |
| KINGSTON | 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 | GAM4HFL1BM2400D15IE08I C | 8G | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● |
| CORSAIR | CMK32GX4M4A2400C16R | 32GB(4*8GB) | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | ● | ● |
| CORSAIR | CMD16GX4M4B2400C10 | 16GB(4*4GB) | SS | N/A | Heat-Sink Package | 10-12-12-28 | 1.35V | ● | ● |
| MUSHKIN | 997199T | 16GB(2*8GB) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| GEIL | 8G2133C151.2V | 8G | DS | GEIL | 512X8DDR4Y | | 1.2V | ● | ● |
| TEAM | TED416G2400C16BK | 16G | DS | TEAM | T4D10248MT-24 | 16-6-16-39 | 1.2V | ● | |

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|-----------------|-----------------------|-----------------|----|---------|-------------------|-------------|-------|---|---|
| TEAM | TCD44G2400C14BK | 4GB | SS | Skhymix | H5AN4G8NAFR | 14-16-16-31 | 1.2V | ● | ● |
| TIGO | TMKU8GF28-2400U | 8G | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● |
| APACER | AU08GGB24CEYBGC | 8G | SS | APACER | AM6F6308MHHSB2 | 17-17-17-39 | 1.2V | ● | ● |
| KINGSTON | HX424C12SB2K2/16 | 16G | DS | N/A | Heat-Sink Package | | 1.35V | ● | ● |
| GLOWAY | PC4-19200 | 8G | SS | N/A | M15B302062 | 15-15-15-35 | 1.2V | ● | ● |
| ADATA | AX4U240038G16-BWZ | 8GB*8 | SS | N/A | Heat-Sink Package | 17-16-16-39 | 1.2V | ● | ● |
| ADATA | AX4U2400316G16-SBF | 16G*16 | DS | N/A | Heat-Sink Package | 17-16-16-39 | 1.2V | ● | |
| AVEXIR | AVD4UZ124001608G-4COR | 8GB*4 | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.2V | ● | ● |
| AVEXIR | AVD4UZ124001604G-4COR | 16GB (4x 4GB) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.2V | ● | ● |
| KINGSTON | TF24D4U7S8MB-8 | 8GB | SS | MICON | 6SB77D9TBH | 17-17-17-39 | 1.2V | ● | ● |
| KINGSTON | TF24D4U7S1MBD-2 | 2GB | SS | MICON | 6GB77D9TGQ | 17-17-17-39 | 1.2V | ● | ● |
| KINGSTON | TF24D4U7S8MBD-4 | 4GB | SS | MICON | 6QB77D9TGG | 17-17-17-39 | 1.2V | ● | ● |
| RAMAXEL | RMUA5120MB86H9F-2400 | 4GB | SS | MICON | 6RB77D9TBK | 17-17-17-39 | 1.2V | ● | ● |
| RAMAXEL | RMUA5120MB76H8F-2400 | 2GB | SS | MICON | 6GB77D9TGQ | 17-17-17-39 | 1.2V | ● | ● |
| V-COLOR | TC48G24S817 | 8GB | SS | V-COLOR | TMC9486G2 | 17-17-17-39 | 1.2V | ● | ● |
| ADATA | AX4U240038G16-SBF | 8GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.2V | ● | ● |

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|----------------|----------------------|-------|----|------|-------------------|-------------|------|---|---|
| ADATA | AX4U2400W8G16-DRD | 8GB | DS | N/A | Heat-Sink Package | 17-17-17-39 | 1.2V | ● | ● |
| ADATA | AX4U2400316G16-DRD | 16G | DS | N/A | Heat-Sink Package | 17-17-17-39 | 1.2V | ● | |
| G.SKILL | F4-2400C15Q2-64GRK | 8GB*8 | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| TEAM | TCD48G2400C14BK | 8G | SS | TEAM | T4D10248MT-24 | 14-16-16-31 | 1.2V | ● | ● |
| TEAM | TED44G2400C16BK | 4G | SS | TEAM | T4D5128MT-24 | 16-16-16-39 | 1.2V | ● | ● |
| CRUCIAL | BLS16G4D240FSE.16FAD | 16G | DS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | ● | |
| CRUCIAL | BLS4G4D240FSA.8FARG | 4G | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | ● | ● |
| PATRIOT | PV48G240C5 | 8G | DS | N/A | Heat-Sink Package | | 1.2V | ● | ● |
| TEAM | TFWD416G2400C15BBK | 16G | DS | TEAM | PP020-093E TP | 15-17-17-35 | 1.2V | ● | |
| TEAM | TFRD48G2400C15ABK | 8G | SS | TEAM | T4D10248HT-24 | 15-15-15-35 | 1.2V | ● | ● |
| TEAM | TFRD44G2400C15ABK | 4G | SS | TEAM | T4D5128HT-24 | 15-15-15-35 | 1.2V | ● | ● |
| Klevv | IM44GU48N24-FFFHAZ | 4GB | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | ● | ● |
| Klevv | IM4AGU88N24-FFFHMZ | 16GB | DS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | ● | |
| Klevv | IM48GU88N24-FFFHMZ | 8GB | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | ● | ● |
| Klevv | IM4AGU88N24-FFFHMB | 16GB | DS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | ● | |
| Klevv | IM48GU88N24-FFFHMB | 8GB | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | ● | ● |

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|-----------------|------------------------------|-------------------|----|---------|-------------------|-------------|-------|---|---|
| Klevv | IM44GU48N24-FFFHAB | 4GB | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | ● | ● |
| GEIL | GPR432GB2400C16QC | 8GB | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.2V | ● | |
| G.SKILL | F4-2400C15D-16GTZR | 8GB | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | ● | ● |
| CRUCIAL | MTA16ATF1G64AZ-2G3A2 | 8GB | DS | MICON | 5VA77D9RGG | 17-17-17-39 | 1.2V | ● | ● |
| Kingston | KVR24N17S8/8 | 8GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.2V | | |
| G.SKILL | F4-2400C15Q-64GFX | 64GB(4*16GB) | DS | N/A | Heat-Sink Package | 15-15-15-39 | 1.20V | ● | |
| G.SKILL | F4-2400C15Q-32GFX | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 15-15-15-39 | 1.20V | ● | ● |
| G.SKILL | F4-2400C16Q-64GFX | 64GB(4*16GB) | DS | N/A | Heat-Sink Package | 16-16-16-39 | 1.20V | ● | |
| G.SKILL | F4-2400C16Q-32GFX | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.20V | ● | ● |
| CORSAIR | CMK16GX4M2Z2400C16 | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-16-16-18 | 1.20V | ● | ● |
| CORSAIR | CMK128GX4M8A2400C14 | 128GB(8*16GB) | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.20V | ● | |
| SAMSUNG | M378A5244CB0--CRC | 16GB(4*4GB) | SS | SEC 704 | K4A8G16 5WC BCRC | 17-17-17-39 | 1.20V | ● | ● |
| AMD | R744G2400U1S | 4GB | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.20V | ● | |
| CORSAIR | CMK128GX4M8A2400C14(Ver5.30) | 128GB (8x 16GB) | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.20V | ● | |
| CORSAIR | CMK16GX4M2Z2400C16(Ver3.31) | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.20V | ● | ● |
| GeIL | GFR416GB2400C16S | 16GB | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | ● | |

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|----------------|----------------------|-----------------|----|---------|-------------------|-------------|-------|---|---|
| GeIL | GFR432GB2400C16D | 16GB | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | ● | |
| HyperX | HX424C15FB2K4/32 | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.20V | ● | ● |
| GLOWAY | STK4U2400D17081C | 8GB | DS | N/A | Heat-Sink Package | 17-17-17-39 | 1.20V | | |
| GLOWAY | STK4U2400D17081C | 8GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.20V | ● | ● |
| GLOWAY | STK4U2400D17161C | 16GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.20V | ● | |
| PATRIOT | PSD48G240081 | 8GB | SS | SEC 710 | K4A8G08 | 17-17-17-39 | 1.20V | ● | ● |
| PATRIOT | PSD44G240081 | 4GB | SS | SEC 707 | K4A4G08 | 16-16-16-39 | 1.20V | ● | ● |
| PATRIOT | PSD416G24002 | 16GB | DS | SEC 707 | K4A8G08 | 17-17-17-39 | 1.20V | ● | |
| PATRIOT | PV432G240C5QK | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.20V | ● | ● |
| PATRIOT | PVE48G240C5KRD | 8GB (2x 4GB) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.20V | ● | |
| PATRIOT | PVE416G240C5KBL | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.20V | ● | ● |
| SAMSUNG | M378A2K43CB1-CRC | 16GB | DS | SEC 719 | K4A8G08 | 17-17-17-39 | 1.20V | ● | |
| Crucial | CT8G4DFS824A.C8FBD1 | 8GB | SS | Micro | 6VB47 C9BGM | 17-17-17-39 | 1.20V | ● | ● |
| ADATA | AD4X240038G17-BP | 64GB (8GBx8) | SS | N/A | PP019-083E | 17-17-17-39 | 1.20V | ● | ● |
| APACER | AHU08GGB24CDU7S | 8GB | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | ● | ● |
| Crucial | BLS8G4D240FSC.16FBR2 | 8GB | DS | N/A | Heat-Sink Package | 16-16-16-39 | 1.20V | ● | ● |

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|-----------------|-------------------------|---------------|----|---------|-------------------|-------------|-------|---|---|
| Asgard | VML41UG-MIC1U22ZG | 8GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.20V | ● | ● |
| KINGMAX | GLLF62F-DAKZIG CLBU | 4GB | SS | N/A | PS029-D93 TP | 17-17-17-39 | 1.20V | ● | ● |
| KINGMAX | GLLH22F-18KIIA CFBU2 | 16GB | DS | N/A | PS023-D93 TP | 17-17-17-39 | 1.20V | ● | |
| KINGMAX | GLLG42F-D8KBIA CFDU | 8GB | DS | KINGMAX | KGD8CB-CU | 17-17-17-39 | 1.20V | ● | ● |
| GEIL | GP44GB2400C16SC | 4GB | SS | GEIL | CG4L512M88BA093FH | 17-16-16-36 | 1.20V | ● | ● |
| Kingston | KVR24N17S8/4 | 4GB | SS | MIRCON | 7CB75 | 17-17-17-39 | 1.20V | ● | ● |
| CRUCIAL | BLS16G4D240FSC.16FBR | 16G | DS | N/A | Heat-Sink Package | 16-16-16-39 | 1.20V | ● | |
| CRUCIAL | BLS8G4D240FSCK.8FBD | 8GB | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.20V | ● | ● |
| CRUCIAL | CT8G4DFD824A.C16FBD2 | 8GB | DS | N/A | Heat-Sink Package | 17-17-17-39 | 1.20V | ● | ● |
| CRUCIAL | CT16G4DFD824A.C16FHD1 | 16GB | DS | N/A | Heat-Sink Package | 17-17-17-39 | 1.20V | ● | |
| ADATA | AX4U240038G16-BRZ | 64GB(8x 8GB) | SS | N/A | Heat-Sink Package | 17-16-16-39 | 1.20V | ● | ● |
| G.SKILL | F4-2400C15S-8GNT | 8GB | SS | G.SKILL | D4 1GM8GE15 | 15-15-15-35 | 1.20V | ● | ● |
| Crucial | CT8G4DFS824A.C8FHD1 | 8GB | SS | MICRON | 7JH45C9BHR | 17-17-17-39 | 1.20V | ● | ● |
| APACER | AU08GGB24CEYBGH | 8GB | SS | N/A | PPE17-093 | 17-17-17-39 | 1.20V | ● | ● |
| GALAXY | GAMER D4-2400 8G C16 紅燈 | 8GB | DS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | | |
| GALAXY | GAMER D4-2400 8G C16 綠燈 | 8GB | DS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | | |

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|----------------|----------------------------|-------|----|---------|-------------------|-------------|-------|---|---|
| GALAXY | GAMER III DDR4-2400 8G C16 | 8GB*1 | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | ● | ● |
| Ramsta | R2DD4N04G2400 | 4G | SS | Micron | 8 | 16-16-16-39 | 1.20V | ● | ● |
| Ramsta | R2DD4N16G2400 | 16G | SS | Micron | 16 | 17-17-17-39 | 1.20V | ● | |
| Ramsta | R2DD4N08G2400 | 8GB | DS | Micron | 8 | 17-17-17-39 | 1.20V | ● | ● |
| G.SKILL | F4-2400C17S-8GISM | 8GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.20V | ● | ● |
| TIGO | TMKU8G868-2400U | 8GB | SS | N/A | PP005-093DG | 16-16-16-39 | 1.20V | ● | ● |
| HyperX | HX424C15FB/4 | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.20V | ● | ● |
| CRUCIAL | BLS8G4D240FSE.16FBR2 | 8GB | DS | N/A | Heat-Sink Package | 16-16-16-39 | 1.20V | ● | ● |
| APACER | AHU08GGB24CDU7G | 8GB | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | ● | ● |
| GEIL | GASB416GB2400C16QC | 4GB | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | ● | ● |
| GEIL | GASB432GB2400C16QC | 8GB | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | ● | ● |
| G.SKILL | F4-2400C17S-8GDB | 8GB | SS | G.SKILL | D4 1GM8GDDP | 17-17-17-39 | 1.20V | ● | ● |
| TIGO | TMKU8G868-2400U | 8GB | | TIGO | TK2400PS1G08 | 17-17-17-39 | 1.20V | ● | ● |
| TIGO | TMKG8G868-2400U | 8GB | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.20V | ● | ● |
| APACER | AU16GGB24CEYBGC | 16GB | DS | APACER | AM6F6308AHHSB2 | 17-17-17-39 | 1.2V | ● | |
| GEIL | GLS48GB2400C16DC | 4GB | SS | N/A | Heat-Sink Package | 17-16-16-36 | 1.2V | ● | ● |

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|----------------------|-------------------|------|----|---------------|-------------------|-------------|------|---|---|
| GLOWAY | TYP4U2400D17021C | 2GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.2V | ● | ● |
| Asgard | VML41UE-MIC1U22Q1 | 2GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.2V | ● | ● |
| silicon power | SP008GBLFU240B02 | 8GB | SS | silicon power | 4N8084HABE 1730X | 17-17-17-39 | 1.2V | ● | ● |
| Team | TVD416G2400C14BK | 16GB | DS | N/A | N/A | 15-16-16-31 | 1.2V | | |
| GeIL | GLS48GB2400C16DC | 4GB | SS | N/A | Heat-Sink Package | 17-16-16-36 | 1.2V | ● | ● |
| | | | | | | | | | |

DDR4 2666 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/D S | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support | |
|-----------------|------------------------------|----------------|-----------|------------|-------------------|-------------|---------|---------------------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM |
| CORSAIR | CMK16GX4M4A2666C16 | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | | |
| CORSAIR | CMD32GX4M4A2666C15(Ver 5.29) | 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 | | |
| MUSHKIN | 997192F | 8GB(4GB*2) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | | |
| KINGSTON | HX426C13PBK4/32 | 32GB (8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.35V | | |
| KINGSTON | 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 | | |

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|-----------------|-------------------------|----------------|----|-----|-------------------|-------------|-------|--|--|
| KINGSTON | HX426C15FBK4/16 | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.2V | | |
| CRUCIAL | BLE4G4D26AFE.8FAD | 8G | SS | N/A | Heat-Sink Package | 16-16-17-36 | 1.2V | | |
| CRUCIAL | BLE8G4D26AFE.16FAD | 8G | 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 | AVD4UZ126661508G-4COB | 32GB (8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | | |
| CRUCIAL | BLT4G4D26AFTA.8FADG | 4G | SS | N/A | Heat-Sink Package | 16-17-17-36 | 1.2V | | |
| CRUCIAL | BLT8G4D26AFTA.16FAD | 8G | DS | N/A | Heat-Sink Package | 16-17-17-36 | 1.2V | | |
| KLEVV | IMA41GU6MFR8N-C F0 | 8G | DS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | | |
| KINGSTON | HX426C13SB2K4/32 | 32GB (8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.35V | | |
| KINGSTON | 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 | | |
| 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(2*16GB) | 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 | | |

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|----------------|------------------------------|---------------|----|------|-------------------|-------------|------|--|--|
| CORSAIR | CMK16GX4M2A2666C16 | 16GB(2*8GB) | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | | |
| CORSAIR | CMK32GX4M2A2666C16 | 32GB(2*16GB) | 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 | 8G*4 | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | | |
| AVEXIR | AVD4UZ126661704G-4COR | 4G*4 | SS | N/A | Heat-Sink Package | | 1.2V | | |
| AVEXIR | AVD4UZ126661708G-4COR | 8G*4 | SS | N/A | Heat-Sink Package | | 1.2V | | |
| CORSAIR | CMK32GX4M4A2666C15 | 32GB(4*8GB) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.2V | | |
| TEAM | TFRD4162666C15BBK | 16G | DS | N/A | SEC546 | 15-17-17-35 | 1.2V | | |
| TEAM | TFWD48G2666C15BBK | 8G | DS | N/A | SEC634 | 15-17-17-35 | 1.2V | | |
| TEAM | TCD44G2666C15BBK | 4G | SS | TEAM | T4D5128HT-266 | 15-17-17-35 | 1.2V | | |
| HyperX | HX426C15FBK2/16 | 8G | DS | N/A | Heat-Sink Package | | 1.2V | | |
| Klevv | IM48GU88N26-FFFHMZ | 8GB | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | | |
| Klevv | IM4AGU88N26-FFFHMZ | 16GB | DS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | | |
| Klevv | IM44GU48N26-FFFHAZ | 4GB | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | | |
| CORSAIR | CMK16GX4M2A2666C16(Ver 5.30) | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | | |

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|----------------|-------------------------------|-------------------|----|-----|-------------------|-------------|-------|--|--|
| ADATA | AX4U2666W4G16-BRZ | 4GB | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | | |
| ADATA | AX4U266638G16-DRZ | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | | |
| ADATA | AX4U2666W8G16-QRZ | 32GB (4x 8GB) | DS | N/A | Heat-Sink Package | 16-16-16-39 | 1.2V | | |
| crucial | BLS8G4D26BFSC.16FBR2 | 8GB | DS | N/A | Heat-Sink Package | 16-18-18-38 | 1.20V | | |
| crucial | BLS16G4D26BFSC.16FBD | 16GB | DS | N/A | Heat-Sink Package | 16-18-18-38 | 1.20V | | |
| crucial | BLS4G4D26BFSC.8FBR2 | 4GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.20V | | |
| CORSAIR | CMK128GX4M8A2666C16 | 128GB(8*16GB) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.20V | | |
| CORSAIR | CMR16GX4M2A2666C16 | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.20V | | |
| CORSAIR | CMK128GX4M8A2666C16(Ve r5.39) | 128GB (8x 16GB) | DS | N/A | Heat-Sink Package | 16-18-18-35 | 1.20V | | |
| CORSAIR | CMR64GX4M8A2666C16 | 64GB (8x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.20V | | |
| HyperX | HX426C16FB2K4/64 | 64GB(4*16GB) | DS | N/A | Heat-Sink Package | 16-18-18-39 | 1.20V | | |
| G.SKILL | F4-2666C16Q2-64GRB | 64GB (8GBx8) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | | |
| HyperX | HX426C15SBK8/128 | 128GB (16GBx8) | DS | N/A | Heat-Sink Package | 15-16-16-35 | 1.20V | | |
| HyperX | HX426C13PB3/8 | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 13-15-15-35 | 1.35V | | |
| HyperX | HX426C13PB3K2/16 | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 13-15-15-35 | 1.35V | | |
| HyperX | HX424C12PB3/8 | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 13-15-15-35 | 1.35V | | |

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|----------------|----------------------|-----------------|----|--------|-------------------|-------------|-------|--|--|
| HyperX | HX424C12PB3K2/16 | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 13-15-15-35 | 1.35V | | |
| HyperX | HX424C12PB3K4/32 | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 13-15-15-35 | 1.35V | | |
| HyperX | HX426C13PB3/16 | 64GB(4*16GB) | DS | N/A | Heat-Sink Package | 13-15-15-35 | 1.35V | | |
| HyperX | HX426C13PB3K2/32 | 64GB(4*16GB) | DS | N/A | Heat-Sink Package | 13-15-15-35 | 1.35V | | |
| HyperX | HX424C12PB3K4/64 | 64GB(4*16GB) | DS | N/A | Heat-Sink Package | 13-15-15-35 | 1.35V | | |
| HyperX | HX424C12PB3/16 | 64GB(4*16GB) | DS | N/A | Heat-Sink Package | 13-15-15-35 | 1.35V | | |
| HyperX | HX424C12PB3K2/32 | 64GB(4*16GB) | DS | N/A | Heat-Sink Package | 13-15-15-35 | 1.35V | | |
| CRUCIAL | BLS8G4D26BFSC.8FBR | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.20V | | |
| CRUCIAL | BLS8G4D26BFSC.8FBD | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.20V | | |
| MICRON | MTA16ATF2G64AZ-2G6H1 | 16GB | DS | MICRON | 7BH45 D9VHP | 19-19-19-43 | 1.20V | | |
| MICRON | MTA8ATF1G64AZ-2G6H1 | 8GB | SS | MICRON | 7BH45 D9VHP | 19-19-19-43 | 1.20V | | |
| TIGO | TMKG8G868-2666N | 8GB | SS | N/A | Heat-Sink Package | 19-19-19-43 | 1.20V | | |
| ADATA | AX4U266638G16-BRS | 64GB(8x 8GB) | SS | N/A | Heat-Sink Package | 16-16-16-39 | 1.20V | | |
| ADATA | AD4U266638G19-B | 8GB*8 | SS | N/A | PPE14-075E | 19-19-19-43 | 1.2V | | |
| ADATA | AD4U2666316G19-B | 16GB*16 | DS | N/A | PPE14-075E | 19-19-19-43 | 1.2V | | |
| PANRAM | W4U2666PS-16G | 16GB*2 | DS | panram | DDR4-1GM8-26 | 16-18-18-35 | 1.2V | | |

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|---------------|----------------------|-------|----|--------|-------------------|-------------|------|--|--|
| PANRAM | W4U2666PS-8G | 8GB*2 | DS | panram | DDR4-1GM8-26 | 16-18-18-35 | 1.2V | | |
| Team | TPD416G2666HC19BK | 16GB | DS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TED416G2666C1901 | 16GB | DS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TPRD416G2666HC1901 | 16GB | DS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TPD416G2666HC1901 | 16GB | DS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TED432G2666C19DC01 | 16GB | DS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TPRD432G2666HC19DC01 | 16GB | DS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TPD432G2666HC19DC01 | 16GB | DS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TED464G2666C19OC01 | 16GB | DS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TPRD464G2666HC19OC01 | 16GB | DS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TPD464G2666HC19OC01 | 16GB | DS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TPD48G2666HC19BK | 8GB | SS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TED48G2666C1901 | 8GB | SS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TPRD48G2666HC1901 | 8GB | SS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TPD48G2666HC1901 | 8GB | SS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |
| Team | TED416G2666C19DC01 | 8GB | SS | N/A | Heat-Sink Package | 19-19-19-43 | 1.2V | | |

DDR4 2800 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/D S | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support | |
|-----------------|-----------------------|----------------|-----------|------------|-------------------|----------------|---------|---------------------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM |
| CORSAIR | CMK16GX4M4A2800C16 | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | | |
| KINGSTON | 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 | | |
| 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 | | |
| KINGSTON | 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 | | |
| KINGSTON | HX428C14SB2K4/32 | 32GB (8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | | |
| KINGSTON | 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 | 8G | DS | SK HYNIX | HMA54G8NAFR | | | | |

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|----------------|-------------------------|-------------|----|------|-------------------|-------------|-------|--|--|
| G.SKILL | F4-2800C16D-16GRR | 8G*2 | SS | N/A | Heat-Sink Package | | 1.2V | | |
| ADATA | AX4U280038G17-SBF | 8GB*8 | SS | N/A | Heat-Sink Package | 18-17-17-36 | 1.2V | | |
| ADATA | AX4U2800316G16-SBF | 16GB | DS | N/A | Heat-Sink Package | 17-16-16-36 | 1.2V | | |
| CORSAIR | CMD32GX4M4A2800C16 | 8G | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | | |
| G.SKILL | F4-2800C14Q-64GVK | 16G*4 | DS | N/A | Heat-Sink Package | 14-14-14-35 | 1.35V | | |
| G.SKILL | F4-2800C16Q-32GVR | 8G*4 | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.20V | | |
| AVEXIR | AVD4UZ128001504G-4BZ1RR | 4G*4 | SS | N/A | Heat-Sink Package | | 1.35V | | |
| AVEXIR | AVD4UZ128001508G-4BZ1RR | 8G*4 | DS | N/A | Heat-Sink Package | | 1.35V | | |
| CORSAIR | CMD16GX4M4A2800C16 | 16GB(4*4GB) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | | |
| CORSAIR | CMK64GX4M8B2800C14 | 64GB(8*8GB) | DS | N/A | Heat-Sink Package | 14-16-16-36 | 1.35V | | |
| TEAM | TFWD416G2800C16CBK | 16G | DS | TEAM | T4D10248HT-30 | 16-18-18-38 | 1.2V | | |
| TEAM | TFRD48G2800C16CBK | 8G | DS | N/A | SEC625 | 16-18-18-38 | 1.2V | | |
| TEAM | TCD44G2800C16CBK | 4G | SS | TEAM | T4D5128HT-30 | 16-18-18-38 | 1.2V | | |
| FORZA | NFMUD416E8-2800EH2A | 16GB | DS | N/A | Heat-Sink Package | 17-17-17-36 | 1.2V | | |
| FORZA | NFMUD480E8-2800DH2A | 8G | SS | N/A | Heat-Sink Package | 17-17-17-36 | 1.2V | | |
| ADATA | AX4U2800W8G17-BRD | 8GB | DS | N/A | Heat-Sink Package | 17-17-17-36 | 1.2V | | |

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|----------------|----------------------|-----------------|----|-----|-------------------|-------------|-------|--|--|
| G.SKILL | F4-2800C15Q-32GVR | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.25V | | |
| ADATA | AX4U2800W4G17-BRZ | 8GB(2*4GB) | SS | N/A | Heat-Sink Package | 17-17-17-36 | 1.2V | | |
| ADATA | AX4U280038G17-BWZ | 8G | SS | N/A | Heat-Sink Package | 17-17-17-36 | 1.2V | | |
| KINGMAX | GLMG42F-18KIIA CJBR4 | 8GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.20V | | |
| | | | | | | | | | |

DDR4 3000 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/D S | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support | |
|-----------------|-----------------------|-----------------|-----------|------------|-------------------|----------------|---------|---------------------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM |
| CORSAIR | CMD32GX4M2B3000C15 | 32GB (16GB*2) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| KINGSTON | 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 | | |
| PANRAM | PUD43000C154G4NJW | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| KINGSTON | HX430C15PBK4/32 | 32GB (8GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | | |
| KINGSTON | 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 | | |
| KINGSTON | HX430C16PBK4/64 | 64GB (16GB*4) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | | |

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|-----------------|---------------------|-----------------|----|---------|-------------------|----------------|-------|--|--|
| KINGSTON | HX430C15SBK2/16 | 16GB (8GB*2) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 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 | | |
| KINGSTON | 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 | 8G | SS | Skhymix | H5AN8G8NMFR | 16-16-16-36 | 1.35V | | |
| ADATA | AX4U300038G16-DBZ | 8G | 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 | 1.35V | | |
| CORSAIR | CMD16GX4M4B3000C15 | 4G | 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 | 8G | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| CORSAIR | CMK16GX4M4B3000C15 | 4G | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| G.SKILL | F4-3000C15Q-32GRK | 8G*4 | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.35V | | |

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|----------------|------------------------------|-----------------|----|------|-------------------|-------------|-------|--|--|
| CORSAIR | CMK8GX4M2B3000C15 | 8GB(2*4GB) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| CORSAIR | CMU32GX4M4C3000C15 | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| GEIL | GFR416GB3000C15ADC | 8G | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| TEAM | TFWD416G3000C16CBK | 16G | DS | TEAM | T4D10248HT-30 | 16-18-18-38 | 1.35V | | |
| TEAM | TFRD48G3000C16CBK | 8G | DS | N/A | SEC625 | 16-18-18-38 | 1.35V | | |
| TEAM | TCD44G3000C16CBK | 4G | SS | TEAM | T4D5128HT-30 | 16-18-18-38 | 1.35V | | |
| Klevv | IM4AGU88A30-FGGHMZ | 16GB | DS | N/A | Heat-Sink Package | 15-16-16 | 1.35V | | |
| Klevv | IM48GU88A30-FGGHMZ | 8GB | SS | N/A | Heat-Sink Package | 15-16-16 | 1.35V | | |
| Klevv | IM44GU48A30-FGGHAZ | 4GB | SS | N/A | Heat-Sink Package | 15-16-16 | 1.35V | | |
| Klevv | IM48GU88A30-FGGHMB | 8GB | SS | N/A | Heat-Sink Package | 15-16-16 | 1.35V | | |
| Klevv | IM44GU48A30-FGGHAB | 4GB | SS | N/A | Heat-Sink Package | 15-16-16 | 1.35V | | |
| Klevv | IM4AGU88A30-FGGHMB | 16GB | DS | N/A | Heat-Sink Package | 15-16-16 | 1.35V | | |
| G.SKILL | F4-3000C16D-16GISB | 8GB*2 | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| CORSAIR | CMD16GX4M2B3000C15(Ver 5.30) | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| CORSAIR | CMD32GX4M4C3000C15(Ver 5.30) | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| FORZA | NFMUD416E8-3000DH2A | 16GB | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |

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|----------------|----------------------|------------------|----|-----|-------------------|-------------|-------|--|--|
| FORZA | NFMUD480E8-3000DH2A | 8GB | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| CORSAIR | CMR16GX4M2C3000C15 | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| CORSAIR | CMR32GX4M4C3000C15 | 32GB (4x 8GB) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| Team | TDRRD48G3000HC16CBK | 8GB | DS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| Team | TDRGD48G3000HC16CBK | 8GB | DS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| GALAXY | HOF DDR4-3000 | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| GeIL | GLR416GB3000C15ADC | 8GB | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| G.SKILL | F4-3000C15S-16GVR | 16GB | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.35V | | |
| FORZA | NMUD416E82-3000DB30 | 16GB | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| FORZA | NMUD480E82-3000DB30 | 8GB | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| PATRIOT | PV432G300C6QK | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | | |
| HyperX | HX430C15PB3K4/32 | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 15-17-17-36 | 1.35V | | |
| CRUCIAL | BLT8G4D30AETA.K16FE | 8GB | DS | N/A | Heat-Sink Package | 15-16-16-35 | 1.35V | | |
| PATRIOT | PVE416G300C6KBL | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | | |
| PATRIOT | PVE48G300C6KRD | 8GB (2x 4GB) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | | |
| G.SKILL | F4-3000C14Q2-128GVKD | 128GB (16GBx8) | DS | N/A | Heat-Sink Package | 14-14-14-34 | 1.35V | | |

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|----------------|-----------------------------------|------------------------|----|-----|-------------------|-------------|-------|--|--|
| Team | TF3D48G3000HC16CBK | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| Team | TF4D48G3000HC16CBK | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| GALAXY | N/A | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| TIGO | TMKU8GF58-3000X | 8GB | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| CORSAIR | CMK16GX4M2B3000C15R (Ver5.30) | 8GB*2 | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| CORSAIR | CMK16GX4M2B3000C15R (Ver3.32) | 8GB*2 | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| CORSAIR | CM4X8GD3000C15U4-CN(Ver.5.39) | 8GB | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| ADATA | AX4U300038G16-BRS | 64GB(8x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| ADATA | AX4U300038G16-BBG | 64GB(8x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| Hyper X | HX430C15PB3/8 HX430C15PB3K2/16 | 8GB 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 15-17-17-36 | 1.35V | | |
| TEKISM | T4X3000B8G17-HY | 8GB | DS | N/A | Heat-Sink Package | 17-17-17-36 | 1.35V | | |
| CORSAIR | CMK16GX4M2B3000C15 (Ver5.39) | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | | |
| G.SKILL | F4-3000C16D-16GTZR | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| | | | | | | | | | |

DDR4 3200 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/D S | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support | |
|---------|----------|------|-----------|------------|----------|--------|---------|---------------------|--------|
| | | | | | | | | 1 DIMM | 2 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 | 15-15-15-36 | 1.2V | | |
| 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 | 1.35V | | |
| 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 | 16-18-18-36 | 1.35V | | |
| ADATA | AX4U3200W8G16-BGZ | | DS | N/A | Heat-Sink Package | 16-16-16 | 1.35V | | |
| TEAM | TFWD416G3200C16CBK | 16G | DS | N/A | SEC546 | 16-18-18-38 | 1.35V | | |
| TEAM | TFWD48G3200C16CBK | 8G | DS | N/A | SEC613 | 16-18-18-38 | 1.35V | | |
| G.SKILL | F4-3200C16D-16GTZR | 8GB*2 | SS | N/A | Heat-Sink Package | 18-18-18-38 | 1.35V | | |
| CORSAIR | CMD16GX4M2B3200C16(Ver 3.21) | 16G | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| TIGO | CMK32GX4M2B3200C16(Ver 5.39) | 8GB*2 | DS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| G.SKILL | CMD32GX4M2C3200C16(Ver 5.39) | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 14-14-14-34 | 1.35V | | |
| CORSAIR | CMK64GX4M8B3200C16(Ver 4.31) | 32GB(2*16GB) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| CORSAIR | CMK16GX4M2B3200C16(Ver 4.24) | 32GB(2*16GB) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| CORSAIR | CMU16GX4M2C3200C16(Ver 5.39) | 64GB (8 x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |

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|----------------|------------------------------|-----------------|----|-----|-------------------|-------------|-------|--|--|
| Team | CMD16GX4M2B3200C16(Ver 3.21) | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| Team | CMK32GX4M2B3200C16(Ver 5.39) | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| CORSAIR | CMK64GX4M8B3200C16(Ver 4.31) | 16GB (2x 8GB) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| G.SKILL | CMK16GX4M2B3200C16(Ver 4.24) | 16GB (2x 8GB) | DS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | | |
| CORSAIR | CMU16GX4M2C3200C16(Ver 5.39) | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| G.SKILL | F4-3200C16S-8GRKB | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| CORSAIR | CMU32GX4M2C3200C16(Ver 5.39) | 32GB(2*16GB) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| ADATA | AX4U320038G16-BRS | 8GB*8 | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| Hyper X | HX432C16PB3K2/16 | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| | | | | | | | | | |

DDR4 3300 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/D S | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support | |
|----------------|------------------------------|-----------------|-----------|------------|-------------------|-------------|---------|---------------------|--------|
| | | | | | | | | 1 DIMM | 2 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 | 16-18-18-36 | 1.35V | | |
| G.SKILL | F4-3300C16Q-16GRKD | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | | |
| CORSAIR | CMR32GX4M4C3333C16(Ver 4.31) | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.35V | | |

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|--|--|--|--|--|--|--|--|--|--|
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|--|--|--|--|--|--|--|--|--|--|

DDR4 3400 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/D S | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support | |
|----------------|---------------------------------|-----------------|-----------|------------|-------------------|-------------|---------|---------------------|--------|
| | | | | | | | | 1 DIMM | 2 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 | F4-3466C16Q-16GVK | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| CORSAIR | CMD16GX4M4B3466C18 (Ver4.23) | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 18-19-19-39 | 1.35V | | |
| G.SKILL | CMU32GX4M4C3400C16R (Ver5.20) | 16GB (8GB*2) | DS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |
| PATRIOT | CMD32GX4M2B3466C16(Ver 4.31) | 8GB (4GB*2) | SS | N/A | Heat-Sink Package | | 1.35V | | |
| CORSAIR | CMU32GX4M4C3400C16R (Ver5.20) | 32GB(4*8GB) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| CORSAIR | CMD32GX4M2B3466C16(Ver 4.31) | 32GB(2*16GB) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| CORSAIR | CMR16GX4M2C3466C16(Ver 4.31) | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | | |
| G.SKILL | F4-3466C16Q2-64GTZ | 64GB (8GBx8) | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | | |

DDR4 3600+ Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/D | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support | |
|---------|----------|------|------|------------|----------|--------|---------|---------------------|--|
|---------|----------|------|------|------------|----------|--------|---------|---------------------|--|

| Vendors | Part No. | Size | S | Chip Brand | Chip NO. | Timing | Voltage | 1 DIMM | 2 DIMM |
|----------------|--------------------------------|-----------------|----|------------|-------------------|-------------|---------|--------|--------|
| G.SKILL | F4-3600-C17Q-16GVK | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 17-18-18-38 | 1.35V | | |
| GALAXY | HOF4CALCS3600K17LD162C | 16G(8G*2) | SS | N/A | Heat-Sink Package | 17-18-18-38 | 1.35V | | |
| CORSAIR | CMK16GX4M2B3600C18(Ver 4.31) | 16GB(2*8GB) | SS | N/A | Heat-Sink Package | 18-19-19-39 | 1.35V | | |
| CORSAIR | CMD8GX4M2B3600C18 (Ver4.24) | 8GB(2*4GB) | SS | N/A | Heat-Sink Package | 18-19-19-39 | 1.35V | | |
| CORSAIR | CMD8GX4M2B3733C17 (Ver4.24) | 8GB(2*4GB) | SS | N/A | Heat-Sink Package | 17-19-19-39 | 1.35V | | |
| G.SKILL | F4-3866C18Q-16GTZ | 4G | SS | N/A | Heat-Sink Package | 18-22-22-42 | 1.35V | | |
| G.SKILL | F4-4000C19D-8GTZ | 8GB (4GB*2) | SS | N/A | Heat-Sink Package | 19-21-21-41 | 1.35V | | |
| CORSAIR | CMK8GX4M2B4000C19R (Ver4.24) | | SS | N/A | Heat-Sink Package | 19-23-23-45 | 1.35V | | |
| G.SKILL | F4-4000C19D-16GTZSW | | SS | N/A | Heat-Sink Package | 19-21-21-41 | 1.35V | | |
| G.SKILL | F4-4133C19D-16GTZKW | | SS | N/A | Heat-Sink Package | 19-21-21-41 | 1.35V | | |
| G.SKILL | F4-4266C19D-16GTZKW | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 19-19-19-39 | 1.40V | | |
| CORSAIR | F4-4400C19D-16GTZSW | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 19-19-19-39 | 1.40V | | |

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

-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.