

PRIME H310I-PLUS R2.0

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 |
| 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 | • | • |
| 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(Ver4.23) | 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 | • | • |
| 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 | • | • |
| 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 | 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 | • | • |
| 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 | • | • |
| 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 | AM6F6008THSA1 1550F | | | • | • |
| SAMSUNG | M378A1K43BB1-CPB | 8G | SS | SEC 610 | K4A8G085WBBC PB | | | • | • |
| 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 | • | • |
| 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 | • | • |
| ANUCELL | GRPIF1621033818594 | 8GB | DS | ANUCELL | P4P4GF3BLF-GMT | 16-16-16-35 | 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 | • | • |
| 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 | K4A8G085WBBC PB | | 1.2V | • | • |
| G.SKILL | F4-2133C15Q-32GRR | 8G*4 | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.20V | • | • |
| CRUCIAL | CT16G4DFD8213.C16FAD1 | 16G | DS | MICON | 6NA47C9BGD | | 1.2V | • | • |
| 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 | • | • |

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 |
| 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 | • | • |
| PANRAM | PUD42400C158G4NJW | 8G | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • |
| CRUCIAL | BLS4K4G4D240FSA | 4G | SS | MICRON | 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 | H5AN4G8NMF8R | 16-16-16-36 | 1.2V | • | • |
| PNY | MD16GK2D4240015AB | 16GB (8GB*2) | DS | N/A | Heat-Sink Package | | 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 (Ver4.24) | 8G | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | • | • |
| CORSAIR | CMK8GX4M1A2400C14(Ver3.20) | 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 | • | • |
| KINGSTON | HX424C15FBK4/16 | 4G | SS | N/A | Heat-Sink Package | | 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 | • | • |
| AVEXIR | AVD4UJ124001608G-4COR | 8G | DS | N/A | Heat-Sink Package | | 1.2V | • | • |
| AVEXIR | AVD4UJ124001604G-4COB | 4G | SS | N/A | Heat-Sink Package | | 1.2V | • | • |
| CRUCIAL | BLS8G4D240FSA.16FADG | 8G | DS | MICRON | 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 | 1621JB5454512X8DDR4 | | | • | • |
| CORSAIR | CMD32GX4M4A2400C14 (Ver4.23) | 8G | DS | N/A | Heat-Sink Package | 14-16-16-31 | 1.2V | • | • |
| 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(Ver3.28) | 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 | AVD4UJ124001608G-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 | AVD4UJ124001608G-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 (Ver5.20) | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | | 1.2V | • | • |
| G.SKILL | F4-2400C15Q-64GIS | 64GB(16GB*4) | DS | MICRON | Heat-Sink Package | | 1.2V | • | • |
| CRUCIAL | BLS8G4D240FBS.16FARG | 32GB(8GB*4) | DS | MICRON | 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 | MICRON | 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 | MICRON | Heat-Sink Package | | 1.2V | • | • |
| CRUCIAL | BLS8G4D240FSC.16FARG | 8GB | DS | MICRON | Heat-Sink Package | 16-16-16-39 | 1.2V | • | • |

| | | | | | | | | | |
|----------|------------------------------|-------------------|----|---------|-------------------|-------------|-------|---|---|
| CORSAIR | CMK32GX4M2A2400C14(Ver3.31) | 32GB(916GB*2) | DS | MICRON | Heat-Sink Package | 14-16-16-31 | 1.2V | • | • |
| GALAXY | GAM4HFL1BM2400D15IE08IC | 8G | DS | MICRON | Heat-Sink Package | | 1.2V | • | • |
| CORSAIR | CMK32GX4M4A2400C16R(Ver3.31) | 32GB(4*8GB) | SS | MICRON | 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 | 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 | AM6F6308MHHS B2 | 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 | MICRON | 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 | MICRON | Heat-Sink Package | 16-16-16-36 | 1.2V | • | • |
| AVEXIR | AVD4UZ124001604G-4COR | 16GB (4x 4GB) | SS | MICRON | Heat-Sink Package | 16-16-16-36 | 1.2V | • | • |
| KINGSTON | TF24D4U7S8MB-8 | 8GB | SS | MICRON | 6SB77D9TBH | 17-17-17-39 | 1.2V | • | • |
| KINGSTON | TF24D4U7S1MBD-2 | 2GB | SS | MICRON | 6GB77D9TGQ | 17-17-17-39 | 1.2V | • | • |
| KINGSTON | TF24D4U7S8MBD-4 | 4GB | SS | MICRON | 6QB77D9TGG | 17-17-17-39 | 1.2V | • | • |
| RAMAXEL | RMUA5120MB86H9F-2400 | 4GB | SS | MICRON | 6RB77D9TBK | 17-17-17-39 | 1.2V | • | • |
| RAMAXEL | RMUA5120MB76H8F-2400 | 2GB | SS | MICRON | 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 | • | • |
| 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 | MICRON | T4D10248MT-24 | 14-16-16-31 | 1.2V | • | • |
| TEAM | TED44G2400C16BK | 4G | SS | MICRON | T4D5128MT-24 | 16-16-16-39 | 1.2V | • | • |
| CRUCIAL | BLS16G4D240FSE.16FAD | 16G | DS | MICRON | Heat-Sink Package | 16-16-16-39 | 1.2V | • | • |
| CRUCIAL | BLS4G4D240FSA.8FARG | 4G | SS | MICRON | 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 | • | • |
| Klevv | IM44GU48N24-FFFHAB | 4GB | SS | N/A | Heat-Sink Package | 15-15-15 | 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 | MICRON | 5VA77D9RGG | 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(Ver3.31) | 16GB (2x 8GB) | SS | MICRON | Heat-Sink Package | 16-16-16-18 | 1.20V | • | • |
| CORSAIR | CMK128GX4M8A2400C14(Ver5.30) | 128GB(8*16GB) | DS | N/A | Heat-Sink Package | 14-16-16-31 | 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 | MICRON | Heat-Sink Package | 14-16-16-31 | 1.20V | • | • |
| CORSAIR | CMK16GX4M2Z2400C16(Ver3.31) | 16GB (2x 8GB) | SS | MICRON | Heat-Sink Package | 16-16-16-39 | 1.20V | • | • |
| GeIL | GFR416GB2400C16S | 16GB | SS | MICRON | Heat-Sink Package | 16-16-16-36 | 1.20V | • | • |
| GeIL | GFR432GB2400C16D | 16GB | SS | MICRON | 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 | SS | MICRON | Heat-Sink Package | 17-17-17-39 | 1.20V | • | • |
| GLOWAY | STK4U2400D17161C | 16GB | SS | MICRON | 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 | MICRON | 6VB47_C9BGM | 17-17-17-39 | 1.20V | • | • |
| Crucial | BLS8G4D240FSC.16FBR2 | 8GB | DS | MICRON | Heat-Sink Package | 16-16-16-39 | 1.20V | • | • |
| GEIL | GP44GB2400C16SC | 4GB | SS | MICRON | CG4L512M88BA093FH | 17-16-16-36 | 1.20V | • | • |
| Kingston | KVR24N17S8/4 | 4GB | SS | MICRON | 7CB75 | 17-17-17-39 | 1.20V | • | • |
| CRUCIAL | BLS16G4D240FSC.16FBR | 16G | DS | MICRON | Heat-Sink Package | 16-16-16-39 | 1.20V | • | • |
| CRUCIAL | BLS8G4D240FSC.8FBD | 8GB | SS | MICRON | Heat-Sink Package | 16-16-16-39 | 1.20V | • | • |
| CRUCIAL | CT8G4DFD824A.C16FBD2 | 8GB | DS | MICRON | Heat-Sink Package | 17-17-17-39 | 1.20V | • | • |
| CRUCIAL | CT16G4DFD824A.C16FHD1 | 16GB | DS | MICRON | Heat-Sink Package | 17-17-17-39 | 1.20V | • | • |
| ADATA | AX4U240038G16-BRZ | 64GB(8x 8GB) | SS | MICRON | Heat-Sink Package | 17-16-16-39 | 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 | • | • |
| 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 | • | • |
| 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 | • | • |
| 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 | AM6F6308AHHS B2 | 17-17-17-39 | 1.2V | • | • |
| GEIL | GLS48GB2400C16DC | 4GB | SS | N/A | Heat-Sink Package | 17-16-16-36 | 1.2V | • | • |
| GLOWAY | TYP8U2400E17042C | 8GB | SS | N/A | Heat-Sink Package | 17-17-17-39 | 1.2V | • | • |
| Asgard | VML41UG-MEC1U2BQ1 | 8GB | 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 | • | • |
| GeIL | GLS48GB2400C16DC | 4GB | SS | N/A | Heat-Sink Package | 17-16-16-36 | 1.2V | • | • |
| TIGO | TMKU4G456-2400U | 4GB | SS | TIGO | TG2400PS5116 NST-C17 | 17-17-17-39 | 1.20V | • | • |
| TIGO | TMKUF6G68-2400U | 16GB | DS | TIGO | TG2400PS1G08 NST-C17 | 17-17-17-39 | 1.20V | • | • |
| G.SKILL | F4-2400C17S-8GNX | 8GB | DS | N/A | 5WB BCRC | 17-17-17-39 | 1.20V | • | • |
| HYUNDAI | HYE4G24C17 | 4GB | SS | SK HYNIX | E512MM8SEQCA G44H | 17-17-17-39 | 1.20V | • | • |
| HYUNDAI | HYE8G24C17 | 8GB | SS | SK HYNIX | E1G8SEQCAG28 H | 17-17-17-39 | 1.20V | • | • |
| Apacer | AU16GGB24CEYBGH | 16GB | DS | N/A | PP020-093 TP | 17-17-17-39 | 1.20V | • | • |
| MAXSUN | MSD44G24Q3 | 4GB | DS | Samsung | K4A4G165W?-BCRC | 17-17-17-39 | 1.20V | • | • |
| MAXSUN | MSD48G24Q3 | 8GB | DS | Micron Technology | MT40A1G8??-083:? | 17-17-17-39 | 1.20V | • | • |
| TECLAST | TLD44G24A30 | 4GB | DS | Micron Technology | MT40A256M16??-083:? | 17-17-17-39 | 1.20V | • | • |
| TECLAST | TLD48G24A30 | 8GB | SS | Micron Technology | MT40A1G8??-083:? | 17-17-17-39 | 1.20V | • | • |

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.

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 |
| CORSAIR | CMK16GX4M4A2666C16 (Ver5.29) | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • |
| G.SKILL | F4-2666C15Q-16GRR | 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 | • | • |
| CRUCIAL | BLE4G4D26AFEA.8FAD | 8G | SS | N/A | Heat-Sink Package | 16-16-17-36 | 1.2V | • | • |
| CRUCIAL | BLE8G4D26AFEA.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 | • | • |
| 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 (Ver5.20) | 32GB(2*16GB) | DS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • |
| CORSAIR | CMK32GX4M4A2666C16(Ver3.20) | 32GB(8GB*4) | DS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • |
| CORSAIR | CMK16GX4M2A2666C16 (Ver3.31) | 16GB(2*8GB) | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • |
| CORSAIR | CMK32GX4M2A2666C16 (Ver5.39) | 32GB(2*16GB) | DS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • |
| CORSAIR | CMK16GX4M4A2666C15 (Ver5.20) | 16GB (4GB*4) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.2V | • | • |
| CORSAIR | CMK64GX4M4A2666C16 (Ver5.3) | 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 (Ver5.20) | 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 | IM44GU48N26-FFFHAZ | 4GB | SS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | • | • |
| CORSAIR | CMK16GX4M2A2666C16(Ver5.30) | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.2V | • | • |
| 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 | BLS4G4D26BFSC.8FBR2 | 4GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.20V | • | • |
| CORSAIR | CMK128GX4M8A2666C16(Ver5.39) | 128GB(8*16GB) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.20V | • | • |
| CORSAIR | CMR16GX4M2A2666C16(Ver5.30) | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-35 | 1.20V | • | • |
| CORSAIR | CMK128GX4M8A2666C16(Ver5.39) | 128GB (8x 16GB) | DS | N/A | Heat-Sink Package | 16-18-18-35 | 1.20V | • | • |
| CORSAIR | CMR64GX4M8A2666C16(Ver5.30) | 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 | HX424C12PB3/8 | 32GB (4x 8GB) | SS | 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 | • | • |
| 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 | • | • |
| PANRAM | W4U2666PS-8G | 8GB*2 | DS | panram | DDR4-1GM8-26 | 16-18-18-35 | 1.2V | • | • |
| Transcend | TS1GLH64V6B | 8GB | SS | SAMSUNG | N/A | 19-19-19-43 | 1.2 | • | • |

DIMM Slots

- **1 DIMM:** Supports one module inserted in any slot as Single-channel memory configuration
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—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.

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—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.

DDR4 2800 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | |
|----------|------------------------------|---------------|-------|------------|-------------------|----------------|---------|--------------------------------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM |
| CORSAIR | CMK16GX4M4A2800C16(Ver5.29) | 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 | • | • |
| 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 | | | • | • |
| 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 (Ver5.20) | 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(Ver3.21) | 16GB(4*4GB) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | • | • |
| CORSAIR | CMK64GX4M8B2800C14 (Ver4.24) | 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 | • | • |
| 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 | • | • |

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Hence, a total installed memory of less than 3GB is recommended.

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Under the default state, some memory modules for overclocking may operate at a lower frequency than the vendor-marked value.

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 |
| CORSAIR | CMD32GX4M2B3000C15(Ver4.31) | 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 | 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 | 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 (Ver4.24) | 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 (Ver4.31) | 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(Ver4.24) | 4G | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • |
| CORSAIR | CMK32GX4M2B3000C15(Ver5.39) | 16G | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • |
| CORSAIR | CMU16GX4M2C3000C15 (Ver4.31) | 8G | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • |
| CORSAIR | CMK16GX4M4B3000C15(Ver3.21) | 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 | • | • |
| CORSAIR | CMK8GX4M2B3000C15(Ver3.21) | 8GB(2*4GB) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • |
| CORSAIR | CMU32GX4M4C3000C15 (Ver5.3) | 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 | • | • |
| CORSAIR | CMD16GX4M2B3000C15(Ver5.30) | 16GB (2x 8GB) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • |
| CORSAIR | CMD32GX4M4C3000C15(Ver5.30) | 32GB (4x 8GB) | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • |
| FORZA | NFMUD480E8-3000DH2A | 8GB | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • |
| CORSAIR | CMR16GX4M2C3000C15(Ver4.31) | 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 | • | • |
| 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 | • | • |
| 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 | • | • |

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| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | |
|---------|-----------------------------|------------------|-------|------------|-------------------|-------------|---------|--------------------------------|--------|
| | | | | | | | | 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(Ver3.21) | 16G | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | • | • |
| CORSAIR | CMK16GX4M2B3200C16(Ver4.24) | 32GB(2*16GB) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | • | • |
| CORSAIR | CMU16GX4M2C3200C16(Ver5.39) | 64GB (8 x 8GB) | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | • | • |
| Team | CMD16GX4M2B3200C16(Ver3.21) | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • |
| Team | CMK32GX4M2B3200C16(Ver5.39) | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • |
| CORSAIR | CMK64GX4M8B3200C16(Ver4.31) | 16GB (2x 8GB) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | • | • |
| G.SKILL | CMK16GX4M2B3200C16(Ver4.24) | 16GB (2x 8GB) | DS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | • | • |
| CORSAIR | CMU16GX4M2C3200C16(Ver5.39) | 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(Ver5.39) | 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 | • | • |
| TIGO | TMKG8G3200C16.RGB | 8GB | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • |

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