

| | | | | | | | | | |
|----------|-----------------------|--------------|----|----------|-------------------|----------------|-------|---|---|
| CORSAIR | CMD128GX4MM8A2666C15 | 16G | DS | N/A | Heat-Sink Package | 15-18-18-35 | 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 | 16-16-17-36 | 1.2V | • | • |
| G.SKILL | F4-2666C15Q-16GRR | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • |
| PATRIOT | PX416G266C5QK | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • |
| G.SKILL | F4-2666C16Q2-64GRB | 8G | DS | N/A | Heat-Sink Package | 16-16-16-36 | 1.2V | • | • |
| TEAM | TCD48G2666C15ABK | 8G | DS | SK HYNIX | H5AN4G8NMFR | 15-15-15-35 | 1.2V | • | • |
| TEAM | TCD44G2666C15ABK | 4G | SS | SEC 443 | K4A4G085WD | 15-15-15-35 | 1.2V | • | • |
| MUSHKIN | 997192F | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35-50 | 1.2V | • | • |
| KINGSTON | HX426C13PBK4/32 | 8G | DS | N/A | Heat-Sink Package | 13-14-14-39-60 | 1.35V | • | • |
| KINGSTON | HX426C15FBK4/32 | 8G | DS | N/A | Heat-Sink Package | | 1.2V | • | • |
| AVEXIR | AVD4UZ126661504G-4COB | 4G | SS | N/A | Heat-Sink Package | | 1.2V | • | • |
| AVEXIR | AVD4UZ126661508G-4COB | 8G | DS | N/A | Heat-Sink Package | | 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 | | DS | N/A | Heat-Sink Package | 15-15-15 | 1.2V | • | • |
| KINGSTON | HX426C13SB2K4/32 | 32GB (4x 8G) | DS | N/A | Heat-Sink Package | 15-15-15-36 | 1.35V | • | • |
| KINGSTON | HX426C13SB2K4/16 | 16GB (4x 4G) | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.35V | • | • |
| TEAM | TCD48G2666C15ABK | 8G | SS | TEAM | T4D10248HT-266 | 15-15-15-35 | 1.2V | • | • |
| CRUCIAL | BLT4G4D26AFTA.8FADG | | SS | N/A | Heat-Sink Package | 16-17-17-36 | 1.2V | • | • |
| CRUCIAL | BLT8G4D26AFTA.16FAD | | DS | N/A | Heat-Sink Package | 16-17-17-36 | 1.2V | • | • |

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 | 4G | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | • | • |
| G.SKILL | HX428C14PB2K4/16 | 4G | SS | N/A | Heat-Sink Package | | 1.35V | • | • |
| G.SKILL | F4-2800C6Q-16GRK | 4G | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.2V | • | • |
| PATRIOT | PX416G280C6QK | 4G | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | • | • |
| GLOWAY | PC4-22400 | 4G | SS | SK HYNIX | H5AN4G8NMFR | 16-16-16-36 | 1.2V | • | • |
| PANRAM | PUD42800C164G4NJW | 4G | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.25V | • | • |
| MUSHKIN | 994207F | 4G | SS | N/A | Heat-Sink Package | 16-16-16-36-52 | 1.2V | • | • |
| KINGSTON | HX428C14PBK4/32 | 8G | DS | N/A | Heat-Sink Package | 14-15-15-39-63 | 1.35V | • | • |
| AVEXIR | AVD4UZ128001604G-4COB | 4G | SS | N/A | Heat-Sink Package | | 1.2V | • | • |
| AVEXIR | AVD4UZ128001608G-4COB | 8G | DS | N/A | Heat-Sink Package | | 1.2V | • | • |
| CORSAIR | CMK32GX4M4A2800C16 | 32GB (4x 8G) | DS | N/A | Heat-Sink Package | 16-18-18-36 | 1.2V | • | • |
| KINGSTON | HX428C14SB2K4/16 | 16GB (4x 4G) | SS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • |

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 |
| KINGSTON | HX430C15PB2K4/16 | 4G | SS | N/A | Heat-Sink Package | | 1.35V | • | • |
| G.SKILL | F4-3000C15Q-16GRR | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.35V | • | • |
| TEAM | TCD48G3000C16ABK | 8G | DS | TEAM | T4D5128HT-30 | 16-16-16-36 | 1.35V | • | • |
| TEAM | TCD44G3000C16ABK | 4G | SS | TEAM | T4D5128HT-30 | 16-16-16-36 | 1.35V | • | • |
| PANRAM | PUD43000C154G4NJW | 4G | SS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • |
| KINGSTON | HX430C15PBK4/32 | 8G | DS | N/A | Heat-Sink Package | 15-16-16-39-65 | 1.35V | • | • |
| AVEXIR | AVD4UZ130001604G-4COB | 4G | SS | N/A | Heat-Sink Package | | 1.35V | • | • |
| AVEXIR | AVD4UZ130001608G-4COB | 8G | DS | N/A | Heat-Sink Package | | 1.35V | • | • |
| Kingston | HX430C16PBK4/64 | 16G | DS | N/A | Heat-Sink Package | | 1.35V | • | • |
| Kingston | HX430C15SBK2/16 | 8G | DS | N/A | Heat-Sink Package | | 1.35V | • | • |
| TEAM | TCD48G3000C15ABK | 8GB | DS | SK HYNIX | H5AN4G8NMFR | 15-15-15-35 | 1.35V | • | • |
| KLEVV | IM44GU48A30-GIIHMC | 4G | SS | N/A | Heat-Sink Package | 16-18-18 | 1.35V | • | • |
| CORSAIR | CMD32GX4M2B3000C15 | 16G | DS | N/A | Heat-Sink Package | 15-17-17-32 | 1.35V | • | • |
| CORSAIR | CMD32GX4M2B3000C15 | 32GB (2x 16G) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • |
| KINGSTON | HX430C15SB2K4/32 | 32GB (4x 8G) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • |
| TEAM | TCD48G3000C15ABK | | DS | SK HYNIX | H5AN4G8NMFR | 15-15-15-35 | 1.35V | • | • |
| KLEVV | IM44GU48A30-GIIHMC | 16GB (4x 4G) | SS | N/A | Heat-Sink Package | 16-18-18 | 1.35V | • | • |
| CORSAIR | CMK16GX4M2B3000C15 | 16GB (2x 8G) | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.35V | • | • |
| KINGSTON | HX430C15SB2K4/16 | 16GB (4x 4G) | SS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • |
| Kingston | HX430C16PBK4/64 | 64GB (4x 16G) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • |
| Kingston | HX430C15SBK2/16 | 16GB (2x 8G) | DS | N/A | Heat-Sink Package | 15-15-15-36-50 | 1.35V | • | • |

DDR4 3200 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | |
|---------|---------------------|-------------|-------|------------|-------------------|----------------|---------|--------------------------------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM |
| PANRAM | PUD43200C164G4NJW | 4G | SS | N/A | Heat-Sink Package | 16-18-18-39 | 1.35V | • | • |
| MUSHKIN | 997202F(3200) | 4G | SS | N/A | Heat-Sink Package | 16-16-16-36-50 | 1.35V | • | • |
| G.SKILL | F4-3300C16Q-16GRKD | 4G | SS | N/A | Heat-Sink Package | 16-16-16-36 | 1.35V | • | • |
| ADATA | AX4UJ3333W4G16-QGZ | 4G | SS | N/A | Heat-Sink Package | 161-16-16 | 1.35V | • | • |
| GEIL | GLWR416GB3400C16AQC | 4GB | SS | N/A | Heat-Sink Package | 16-18-18-36 | 1.35V | • | • |
| G.SKILL | F4-3400C16Q-16GRBD | 4G | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • |
| G.SKILL | F4-3466C16Q-16GVK | 4G | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • |
| CORSAIR | CMD16GX4M4B3466C18 | 4G | SS | N/A | Heat-Sink Package | | 1.35V | • | • |
| G.SKILL | F4-3600-C17Q-16GVK | 4G | SS | N/A | Heat-Sink Package | 17-18-18-38 | 1.35V | • | • |
| G.SKILL | F4-4000C19D-8GTZ | 4G | SS | N/A | Heat-Sink Package | 19-21-21-41 | 1.35V | • | • |
| G.SKILL | F4-3400C16D-16GVK | 8G | DS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • |
| G.SKILL | F4-3200C16D-8GVKB | 4G | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • |
| G.SKILL | F4-3200C16D-8GVKB | 8GB (2x 4G) | SS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • |

DDR4 3400 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | |
|---------|-------------------|--------------|-------|------------|-------------------|-------------|---------|--------------------------------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM |
| G.SKILL | F4-3400C16D-16GVK | 16GB (4x 8G) | DS | N/A | Heat-Sink Package | 16-18-18-38 | 1.35V | • | • |

DDR4 4000 Qualified Vendors List (QVL)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Optional) | |
|---------|------------------|-------------|-------|------------|-------------------|-------------|---------|--------------------------------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM |
| G.SKILL | F4-4000C19D-8GTZ | 8GB (2x 4G) | SS | N/A | Heat-Sink Package | 19-21-21-41 | 1.35V | • | • |

2 DIMM Slots

- 1 DIMM: Supports one module inserted in any slot as Single-channel memory configuration
- 2 DIMM: Supports 2 modules inserted into both the blue or 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.