

B150M-PLUS

DDR4 3200+(Downgrade to DDR4 2133)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIM socket support (Optional) | | |
|---------|---------------------|------|-------|------------|-------------------|----------------|---------|-------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| PANRAM | PUD43200C164G4NJW | 4G | SS | N/A | Heat-Sink Package | 16-18-18-39 | 1.35V | • | • | • |
| MUSHKIN | 997202F | 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 | AX4U3333W4G16-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 | • | • | • |
| G.SKILL | F4-3600-C17Q-16GVK | 4G | SS | N/A | Heat-Sink Package | 17-18-18-38 | 1.35V | • | • | • |

DDR4 3000 (Downgrade to DDR4 2133)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIM socket support (Optional) | | |
|----------|-------------------|------|-------|------------|-------------------|----------------|---------|-------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| KINGSTON | HX430C15PB2K4/16 | 4G | SS | N/A | Heat-Sink Package | | 1.35V | • | • | • |
| 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 | • | • | • |

DDR4 2800 (Downgrade to DDR4 2133)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIM socket support (Optional) | | |
|----------|--------------------|------|-------|------------|-------------------|----------------|---------|-------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 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 | HX428C14PBK/32 | 8G | DS | N/A | Heat-Sink Package | 14-15-15-39-63 | 1.35V | • | • | • |

DDR4 2666(Downgrade to DDR4 2133)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIM socket support (Optional) | | |
|---------|------------------------------|------|-------|--------------|-------------------|----------------|---------|-------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| CORSAIR | CMK16GX4M4A2666C16 | 4G | SS | N/A | Heat-Sink Package | 16-16-18-35 | 1.2V | • | • | • |
| CORSAIR | CMD32GX4M4A2666C15(V er5.29) | 8G | DS | N/A | Heat-Sink Package | 15-17-17-35 | 1.2V | • | • | • |
| 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 | 16G | 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 BCPB | 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 | • | • | • |
| KINGSTON | HX426C15FBK4/16 | 4G | SS | N/A | Heat-Sink Package | | 1.2V | • | • | • |

DDR4 2400 (Downgrade to DDR4 2133)

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Option) | | |
|----------|---------------------|------|-------|--------------|-------------------|----------------|---------|------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| ADATA | AX4U2400W8G16-DRZ | 8G | DS | N/A | Heat-Sink Package | 16-16-16 | 1.2V | • | • | • |
| G.SKILL | F4-2400C15Q-32GRB | 8G | DS | N/A | Heat-Sink Package | 15-15-15-35 | 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 | • | • | • |
| PATRIOT | PX416G240C5QK | 4G | SS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| GLOWAY | PC4-19200 | 4G | SS | GLOWAY | 512X8DDR4 | 16-16-16-35 | 1.2V | • | • | • |
| TEAM | TED44GM2400C16BK | 4G | SS | SEC 437 BCPB | K4A4G085WD | 16-16-16-39 | 1.2V | • | • | • |
| TEAM | TED48GM2400C16BK | 8G | DS | SEC 443 BCPB | K4A4G085WD | 16-16-16-39 | 1.2V | • | • | • |
| PANRAM | PUD42400C154G4NJW | 4G | 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 | • | • | • |
| KINGSTON | HX424C15FBK4/32 | 8G | DS | N/A | Heat-Sink Package | 15-15-15-35-57 | 1.2V | • | • | • |
| KINGSTON | HX424C15FBK4/16 | 4G | SS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| APACER | 78.C1GMA.AF30B | 8G | DS | SK HYNIX | H5AN4G8NMFR | 16-16-16-36 | 1.2V | • | • | • |
| APACER | 78.B1GMA.AF20B | 4G | SS | SK HYNIX | H5AN4G8NMFR | 16-16-16-36 | 1.2V | • | • | • |

DDR4 2133

| Vendors | Part No. | Size | SS/DS | Chip Brand | Chip NO. | Timing | Voltage | DIMM socket support (Option) | | |
|----------|----------------------|------|-------|--------------|-------------------|-------------|---------|------------------------------|--------|--------|
| | | | | | | | | 1 DIMM | 2 DIMM | 4 DIMM |
| SAMSUNG | M378A5143DB0--CPB | 4G | SS | SEC 428 BCPB | K4A4G085WD | 13-13-13-33 | 1.5V | • | • | • |
| SAMSUNG | M378A1G43DB0--CPB | 8G | DS | SEC 428 BCPB | K4A4G085WD | 13-13-13-33 | 1.5V | • | • | • |
| G.SKILL | F4-2133C15Q-32GRK | 8G | DS | N/A | Heat-Sink Package | 15-15-15-35 | 1.2V | • | • | • |
| G.SKILL | F4-2133C15Q-16GRB | 4G | SS | 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 | 4G | SS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| KINGSTON | HX421C14FB/8 | 8G | DS | N/A | Heat-Sink Package | 14-14-14-35 | 1.2V | • | • | • |
| KINGSTON | HX421C14FBK4/32 | 8G | DS | N/A | Heat-Sink Package | | 1.2V | • | • | • |
| PANRAM | PUD42133C138G4NJW | 8G | DS | N/A | Heat-Sink Package | 13-13-13-35 | 1.2V | • | • | • |
| PANRAM | PUD42133C134G4NJW | 4G | SS | N/A | Heat-Sink Package | 13-13-13-35 | 1.2V | • | • | • |
| CORSAIR | CMK16GX4M4A2133C15 | 4G | SS | N/A | Heat-Sink Package | 15-15-15-36 | 1.2V | • | • | • |
| CORSAIR | CMV4GX4M1A2133C15 | 4G | SS | N/A | 4GA72Z9RGR | 13-13-34-33 | 1.5V | • | • | • |
| CORSAIR | CMV8GX4M1A2133C15 | 8G | DS | SEC 446 BCPB | K4A4G085WD | 13-13-13-33 | 1.5V | • | • | • |
| CRUCIAL | MTA8ATF51264AZ-2G1A1 | 4G | SS | MICRON | 4QA77D9RCQ | 13-13-13-33 | 1.2V | • | • | • |
| TEAM | TED48GM2133C15BK | 8G | DS | SEC 437BCBP | K4A4G085WD | 15-15-15-36 | 1.2V | • | • | • |
| TEAM | TED44GM2133C15BK | 4G | SS | SEC 443 BCBP | K4A4G085WD | 15-15-15-36 | 1.2V | • | • | • |
| APACER | 78.C1GM3.AF10B | 8G | DS | SK HYNIX | H5AN4G8NMFR | 14-14-14-33 | 1.5V | • | • | • |
| APACER | AU04GGB13CDTBGC | 4G | SS | SK HYNIX | H5AN4G8NMFR | 14-14-14-33 | 1.5V | • | • | • |
| TEKISM | T4U2133B8G15-SAD | 8G | DS | SEC 446 BCPB | K4A4G085WD | | | • | • | • |
| KINGSTON | KVR21N15S8/4 | 4G | SS | SK HYNIX | H5AN4G8NMFR | | 1.2V | • | • | • |
| KINGSTON | KVR21N15D8/8 | 8G | DS | SK HYNIX | H5AN4G8NMFR | | 1.2V | • | • | • |
| CENTURY | PX4-17000 | 8G | DS | SK HYNIX | H5AN4G8NMFR | | | • | • | • |

4 DIMM Slots

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

- **4 DIMM:** Supports 4 modules inserted into both the **blue** 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.