

## ROG RAMPAGE VI EXTREME OMEGA DRAM QVL

### 8 DIMM Slots

- 1 DIMM: Supports one (1) module inserted into any primary slot as Single-channel memory configuration. Install the module into the D1 slot for better compatibility.
  - 2 DIMMs: Supports two (2) modules inserted into B1 and D1 slots that operates in a dual-channel memory configuration.
  - 4 DIMMs: Supports four (4) modules inserted into A1, B1, C1 and D1 slots that operates in a dual-channel memory configuration.
  - 6 DIMMs: Supports six (6) modules inserted into A1, B1, B2, C1, D1 and D2 slots that operates in a Quad-channel memory configurations.
  - 8 DIMMs: Supports eight (8) modules inserted into all the slots as fully-loaded Quad-channel memory configurations.
- When installing a memory kit, please adhere to the DIMM slot priority cited in the “System Memory” section of the motherboard manual.
- Please ensure all memory modules are from a single validated kit. Do not combine DIMMs from multiple kits—even if they are the same make and model. Mixing and matching DIMMs can result in failure to boot and compatibility cannot be guaranteed.
- Always install DIMMs with the same CAS latency. For optimal compatibility, we recommend that you install memory modules of the same version or date code (D/C) from the same vendor. Check with the retailer to get the correct memory modules.
- At default UEFI settings, the memory operating frequency depends on the Serial Presence Detect (SPD) profile the kit is programmed with, which is the standard way of accessing information from a module. To set the rated speed of the kit, please select XMP or apply manual settings.
- The stability and compatibility of XMP memory kits that operate beyond the JEDEC standard is not guaranteed because it can be affected by the capabilities of the CPU’s integrated memory controller, installed devices, and the operating frequency of associated bus domains.

### DRAM QVL

|                                      |                                      |                                      |                                      |
|--------------------------------------|--------------------------------------|--------------------------------------|--------------------------------------|
| <a href="#"><u>DDR4 4266 QVL</u></a> | <a href="#"><u>DDR4 3800 QVL</u></a> | <a href="#"><u>DDR4 3433 QVL</u></a> | <a href="#"><u>DDR4 2800 QVL</u></a> |
| <a href="#"><u>DDR4 4200 QVL</u></a> | <a href="#"><u>DDR4 3733 QVL</u></a> | <a href="#"><u>DDR4 3333 QVL</u></a> | <a href="#"><u>DDR4 2666 QVL</u></a> |
| <a href="#"><u>DDR4 4133 QVL</u></a> | <a href="#"><u>DDR4 3600 QVL</u></a> | <a href="#"><u>DDR4 3200 QVL</u></a> | <a href="#"><u>DDR4 2400 QVL</u></a> |
| <a href="#"><u>DDR4 4000 QVL</u></a> | <a href="#"><u>DDR4 3466 QVL</u></a> | <a href="#"><u>DDR4 3000 QVL</u></a> | <a href="#"><u>DDR4 2133 QVL</u></a> |

| DDR4 4266 Qualified Vendors List |                            |               |       |            |          |             |         |                                |        |        |        |
|----------------------------------|----------------------------|---------------|-------|------------|----------|-------------|---------|--------------------------------|--------|--------|--------|
| Vendors                          | Part No.                   | Size          | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                            |               |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| G.SKILL                          | F4-4266C19Q2-64GTZKKB      | 64GB(8GB*8)   | SS    | Samsung    | -        | 19-19-19-39 | 1.4V    |                                |        |        | •      |
| G.SKILL                          | F4-4266C18Q2-64GTRG        | 64GB(8GB*8)   | SS    | Samsung    | -        | 18-22-22-42 | 1.4V    |                                |        |        | •      |
| CORSAIR                          | CMK64GX4M8X4266C19 ver4.31 | 64GB(8GB*8)   | SS    | Samsung    | -        | 19-26-26-46 | 1.45V   |                                |        |        | •      |
| DDR4 4200 Qualified Vendors List |                            |               |       |            |          |             |         |                                |        |        |        |
| Vendors                          | Part No.                   | Size          | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                            |               |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| G.SKILL                          | F4-4200C19Q2-64GTZSW       | 64GB(8GB*8)   | SS    | Samsung    |          | 19-19-19-39 | 1.4V    |                                |        |        | •      |
| G.SKILL                          | F4-4200C19Q2-64GTZKK       | 64GB(8GB*8)   | SS    | Samsung    |          | 19-19-19-39 | 1.4V    |                                |        |        | •      |
| CORSAIR                          | CMK64GX4M8X4200C19         | 64GB(8GB*8)   | SS    | Samsung    |          | 19-26-26-46 | 1.45V   |                                |        |        | •      |
| DDR4 4133 Qualified Vendors List |                            |               |       |            |          |             |         |                                |        |        |        |
| Vendors                          | Part No.                   | Size          | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                            |               |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| G.SKILL                          | F4-4133C19Q2-64GTZSWE      | 64GB(8GB*8)   | SS    | Samsung    |          | 19-19-19-39 | 1.4V    |                                |        |        | •      |
| G.SKILL                          | F4-4133C19Q2-64GTZKKE      | 64GB(8GB*8)   | SS    | Samsung    |          | 19-19-19-39 | 1.4V    |                                |        |        | •      |
| CORSAIR                          | CMK64GX4M8X4133C19         | 64GB(8GB*8)   | SS    | Samsung    |          | 19-25-25-45 | 1.4V    |                                |        |        | •      |
| CORSAIR                          | CMR64GX4M8X4133C19         | 64GB(8GB*8)   | SS    | Samsung    |          | 19-25-25-45 | 1.4V    |                                |        |        | •      |
| DDR4 4000 Qualified Vendors List |                            |               |       |            |          |             |         |                                |        |        |        |
| Vendors                          | Part No.                   | Size          | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                            |               |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| G.SKILL                          | F4-4000C18Q2-64GTZSW       | 64GB(8GB*8)   | SS    | Samsung    |          | 18-19-19-39 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-4000C18Q2-64GTZKK       | 64GB(8GB*8)   | SS    | Samsung    |          | 18-19-19-39 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-4000C18Q2-64GTZR        | 64GB(8GB*8)   | SS    | Samsung    |          | 18-19-19-39 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-4000C19Q2-128GTZR       | 128GB(16GB*8) | SS    | Samsung    | -        | 19-19-19-39 | 1.35V   |                                |        |        | •      |
| CORSAIR                          | CMK64GX4M8X4000C19         | 64GB(8GB*8)   | SS    | Samsung    |          | 19-23-23-45 | 1.35V   |                                |        |        | •      |
| CORSAIR                          | CMR64GX4M8X4000C19         | 64GB(8GB*8)   | SS    | Samsung    |          | 19-23-23-45 | 1.35V   |                                |        |        | •      |

| CORSAIR                          | CMW64GX4M8X4000C19 ver4.31 | 64GB(8GB*8)   | SS    | Samsung    | -        | 19-23-23-45 | 1.35V   |                                |        |        | •      |
|----------------------------------|----------------------------|---------------|-------|------------|----------|-------------|---------|--------------------------------|--------|--------|--------|
| Hyper X                          | HX440C19PB3AK2/16          | 16GB(8GB*2)   | SS    | Samsung    |          | 19-21-21-42 | 1.35V   |                                | •      | •      | •      |
| DDR4 3800 Qualified Vendors List |                            |               |       |            |          |             |         |                                |        |        |        |
| Vendors                          | Part No.                   | Size          | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                            |               |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| G.SKILL                          | F4-3800C18Q2-64GTZSW       | 64GB(8GB*8)   | SS    | Samsung    |          | 18-18-18-38 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-3800C18Q2-64GTZKK       | 64GB(8GB*8)   | SS    | Samsung    |          | 18-18-18-38 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-3800C18Q2-64GTZR        | 64GB(8GB*8)   | SS    | Samsung    |          | 18-18-18-38 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-3800C19Q2-128GTZSW      | 128GB(16GB*8) | DS    | Samsung    |          | 19-19-19-39 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-3800C19Q2-128GTZKK      | 128GB(16GB*8) | DS    | Samsung    |          | 19-19-19-39 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-3800C19Q2-128GTZR       | 128GB(16GB*8) | DS    | Samsung    |          | 19-19-19-39 | 1.35V   |                                |        |        | •      |
| CORSAIR                          | CMK64GX4M8X3800C19         | 64GB(8GB*8)   | SS    | Samsung    |          | 19-19-19-39 | 1.35V   |                                |        |        | •      |
| CORSAIR                          | CMR64GX4M8X3800C19         | 64GB(8GB*8)   | SS    | Samsung    |          | 19-19-19-39 | 1.35V   |                                |        |        | •      |
| CORSAIR                          | CMK128GX4M8X3800C19        | 128GB(16GB*8) | DS    | Samsung    |          | 19-19-19-39 | 1.35V   |                                |        |        | •      |
| CORSAIR                          | CMR128GX4M8X3800C19        | 128GB(16GB*8) | DS    | Samsung    |          | 19-19-19-39 | 1.35V   |                                |        |        | •      |
| DDR4 3733 Qualified Vendors List |                            |               |       |            |          |             |         |                                |        |        |        |
| Vendors                          | Part No.                   | Size          | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                            |               |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| G.SKILL                          | F4-3733C17Q2-64GTZSW       | 64GB(8GB*8)   | SS    | Samsung    |          | 17-17-17-37 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-3733C17Q2-64GTZKK       | 64GB(8GB*8)   | SS    | Samsung    |          | 17-17-17-37 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-3733C17Q2-64GTZR        | 64GB(8GB*8)   | SS    | Samsung    |          | 17-17-17-37 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-3733C18Q2-128GTZSW      | 128GB(16GB*8) | DS    | Samsung    |          | 18-19-19-39 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-3733C18Q2-128GTZKK      | 128GB(16GB*8) | DS    | Samsung    |          | 18-19-19-39 | 1.35V   |                                |        |        | •      |
| G.SKILL                          | F4-3733C18Q2-128GTZR       | 128GB(16GB*8) | DS    | Samsung    |          | 18-19-19-39 | 1.35V   |                                |        |        | •      |
| SUPER TALENT                     | F3733UA8G                  | 64GB(8GB*8)   | SS    | Samsung    |          | 17-19-19-39 | 1.35V   |                                |        |        | •      |

| DDR4 3600 Qualified Vendors List |                       |               |       |            |          |             |         |                                |        |        |        |
|----------------------------------|-----------------------|---------------|-------|------------|----------|-------------|---------|--------------------------------|--------|--------|--------|
| Vendors                          | Part No.              | Size          | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                       |               |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| G.SKILL                          | F4-3600C19D-32GSXW    | 32GB(16GB*2)  | DS    | Sk Hynix   | -        | 19-19-19-39 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C19D-32GSXK    | 32GB(16GB*2)  | DS    | Sk Hynix   | -        | 19-19-19-39 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C19D-32GSXF    | 32GB(16GB*2)  | DS    | Sk Hynix   | -        | 19-19-19-39 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C19D-32GSXWB   | 32GB(16GB*2)  | DS    | Sk Hynix   | -        | 19-20-20-39 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C19D-32GSXKB   | 32GB(16GB*2)  | DS    | Sk Hynix   | -        | 19-20-20-39 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C19D-32GTRG    | 32GB(16GB*2)  | DS    | Sk Hynix   | -        | 19-20-20-39 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C19D-32GTRS    | 32GB(16GB*2)  | DS    | Sk Hynix   | -        | 19-20-20-39 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C16Q-32GTZSW   | 32GB(8GB*4)   | SS    |            |          | 16-16-16-36 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C16Q-32GTZKK   | 32GB(8GB*4)   | SS    |            |          | 16-16-16-36 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C16Q-32GTZR    | 32GB(8GB*4)   | SS    |            |          | 16-16-16-36 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C19Q-64GSXW    | 64GB(16GB*4)  | DS    | Sk Hynix   | -        | 19-19-19-39 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C19Q-64GSXK    | 64GB(16GB*4)  | DS    | Sk Hynix   | -        | 19-19-19-39 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C19Q-64GSXF    | 64GB(16GB*4)  | DS    | Sk Hynix   | -        | 19-19-19-39 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C19Q-64GSXWB   | 64GB(16GB*4)  | DS    | Sk Hynix   | -        | 19-20-20-39 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C19Q-64GTRG    | 64GB(16GB*4)  | DS    | Sk Hynix   | -        | 19-20-20-39 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C19Q-64GTRS    | 64GB(16GB*4)  | DS    | Sk Hynix   | -        | 19-20-20-39 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C16Q2-64GTZSW  | 64GB(8GB*8)   | SS    |            |          | 16-16-16-36 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C16Q2-64GTZKK  | 64GB(8GB*8)   | SS    |            |          | 16-16-16-36 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C16Q2-64GTZR   | 64GB(8GB*8)   | SS    |            |          | 16-16-16-36 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C17Q-64GTZR    | 64GB(16GB*4)  | DS    | Samsung    | -        | 17-19-19-39 | 1.35V   |                                | •      | •      |        |
| G.SKILL                          | F4-3600C17Q2-128GTZSW | 128GB(16GB*8) | DS    |            |          | 17-19-19-39 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C17Q2-128GTZKK | 128GB(16GB*8) | DS    |            |          | 17-19-19-39 | 1.35V   |                                | •      | •      | •      |
| G.SKILL                          | F4-3600C17Q2-128GTZR  | 128GB(16GB*8) | DS    |            |          | 17-19-19-39 | 1.35V   |                                | •      | •      | •      |
| CORSAIR                          | CMK16GX4M4B3600C18    | 16GB(4GB*4)   | SS    |            |          | 18-19-19-39 | 1.35V   |                                | •      | •      |        |
| CORSAIR                          | CMD16GX4M4B3600C18    | 16GB(4GB*4)   | SS    |            |          | 18-19-19-39 | 1.35V   |                                | •      | •      |        |

|          |                            |               |    |          |   |             |       |   |   |   |  |
|----------|----------------------------|---------------|----|----------|---|-------------|-------|---|---|---|--|
| CORSAIR  | CMD32GX4M4B3600C16         | 32GB(8GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |  |
| CORSAIR  | CMK32GX4M4B3600C16R        | 32GB(8GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |  |
| CORSAIR  | CMK32GX4M4B3600C18         | 32GB(8GB*4)   | SS |          |   | 18-19-19-39 | 1.35V | • | • |   |  |
| CORSAIR  | CMR32GX4M4C3600C18         | 32GB(8GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |  |
| CORSAIR  | CMK32GX4M4B3600C18R        | 32GB(8GB*4)   | SS |          |   | 18-19-19-39 | 1.35V | • | • |   |  |
| CORSAIR  | CMK64GX4M4B3600C18         | 64GB(16GB*4)  | DS |          |   | 18-19-19-39 | 1.35V | • | • |   |  |
| CORSAIR  | CMK64GX4M8X3600C18         | 64GB(8GB*8)   | SS |          |   | 18-19-19-39 | 1.35V | • | • | • |  |
| CORSAIR  | CMR64GX4M8X3600C18         | 64GB(8GB*8)   | SS |          |   | 18-19-19-39 | 1.35V | • | • | • |  |
| CORSAIR  | CMW64GX4M8X3600C18 ver4.31 | 64GB(8GB*8)   | SS | Samsung  | - | 18-19-19-39 | 1.35V | • | • | • |  |
| CORSAIR  | CMK128GX4M8X3600C18        | 128GB(16GB*8) | DS |          |   | 18-19-19-39 | 1.35V | • | • | • |  |
| CORSAIR  | CMR128GX4M8X3600C18        | 128GB(16GB*8) | DS |          |   | 18-19-19-39 | 1.35V | • | • | • |  |
| CORSAIR  | CMT32GX4M4K3600C16 ver4.31 | 32GB(8GB*4)   | SS | Samsung  |   | 16-18-18-36 | 1.35V | • | • |   |  |
| ZADAK    | ZD4-SHD3600C17-08GAS       | 8GB           | SS | Samsung  |   | 17-19-19-39 | 1.35V | • | • |   |  |
| ADATA    | AX4U360038G17-BR80         | 8GB           | SS | Samsung  |   | 17-18-18-38 | 1.35V | • | • |   |  |
| Kingston | HX436C17PB3K4/32           | 32GB(8GB*4)   | SS |          |   | 17-18-18-39 | 1.35V | • | • |   |  |
| Hyper X  | HX436C17PB3K2/32           | 32GB(16GB*2)  | DS | Samsung  |   | 17-19-19-39 | 1.35V | • | • |   |  |
| Hyper X  | HX436C17PB3K2/32           | 32GB(16GB*2)  | DS | Sk Hynix |   | 17-19-19-39 | 1.35V | • | • |   |  |
| Hyper X  | HX436C17PB3K4/32           | 32GB(8GB*4)   | SS | Samsung  |   | 17-18-18-38 | 1.35V | • | • | • |  |
| Hyper X  | HX436C17PB3AK4/32          | 32GB(8GB*4)   | SS | Samsung  |   | 17-18-18-39 | 1.35V | • | • | • |  |
| Hyper X  | HX436C17PB3K4/64           | 64GB(16GB*4)  | DS | Samsung  |   | 17-19-19-39 | 1.35V | • | • |   |  |
| Hyper X  | HX436C17PB3K4/64           | 64GB(16GB*4)  | DS | Sk Hynix |   | 17-19-19-39 | 1.35V | • | • |   |  |
| V-COLOR  | TL48G36S8BNRGB18           | 8GB           | SS | SK Hynix |   | 18-19-19-39 | 1.35V | • | • |   |  |
| CRUCIAL  | BLS8G4D36BESBK.8FE         | 8GB           | SS | Micron   |   | 16-18-18-38 | 1.35V | • | • |   |  |

## DDR4 3466 Qualified Vendors List

| Vendors | Part No.            | Size        | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|---------|---------------------|-------------|-------|------------|----------|-------------|---------|--------------------------------|--------|--------|--------|
|         |                     |             |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| G.SKILL | F4-3466C16Q-32GTZSW | 32GB(8GB*4) | SS    |            |          | 16-18-18-38 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3466C16Q-32GTZKK | 32GB(8GB*4) | SS    |            |          | 16-18-18-38 | 1.35V   | •                              | •      |        |        |

|         |                            |               |    |          |   |             |       |   |   |   |
|---------|----------------------------|---------------|----|----------|---|-------------|-------|---|---|---|
| G.SKILL | F4-3466C16Q-32GTZR         | 32GB(8GB*4)   | SS |          |   | 16-18-18-38 | 1.35V | • | • |   |
| G.SKILL | F4-3466C16Q-64GTZSW        | 64GB(16GB*4)  | DS |          |   | 16-18-18-38 | 1.35V | • | • |   |
| G.SKILL | F4-3466C16Q-64GTZKK        | 64GB(16GB*4)  | DS |          |   | 16-18-18-38 | 1.35V | • | • |   |
| G.SKILL | F4-3466C16Q-64GTZR         | 64GB(16GB*4)  | DS |          |   | 16-18-18-38 | 1.35V | • | • |   |
| G.SKILL | F4-3466C16Q2-64GTZSW       | 64GB(8GB*8)   | SS |          |   | 16-18-18-38 | 1.35V | • | • | • |
| G.SKILL | F4-3466C16Q2-64GTZKK       | 64GB(8GB*8)   | SS |          |   | 16-18-18-38 | 1.35V | • | • | • |
| G.SKILL | F4-3466C16Q2-64GTZR        | 64GB(8GB*8)   | SS |          |   | 16-18-18-38 | 1.35V | • | • | • |
| G.SKILL | F4-3466C16Q2-128GTZSW      | 128GB(16GB*8) | DS |          |   | 16-18-18-38 | 1.35V | • | • | • |
| G.SKILL | F4-3466C16Q2-128GTZKK      | 128GB(16GB*8) | DS |          |   | 16-18-18-38 | 1.35V | • | • | • |
| G.SKILL | F4-3466C16Q2-128GTZR       | 128GB(16GB*8) | DS |          |   | 16-18-18-38 | 1.35V | • | • | • |
| CORSAIR | CMK16GX4M4B3466C16         | 16GB(4GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMK16GX4M4B3466C16R        | 16GB(4GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMK32GX4M4B3466C16         | 32GB(8GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMR32GX4M4C3466C16         | 32GB(8GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMD32GX4M4B3466C16         | 32GB(8GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMU32GX4M4C3466C16         | 32GB(8GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMK32GX4M4B3466C16R        | 32GB(8GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMU32GX4M4C3466C16R        | 32GB(8GB*4)   | SS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMK64GX4M4B3466C16         | 64GB(16GB*4)  | DS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMR64GX4M4C3466C16         | 64GB(16GB*4)  | DS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMD64GX4M4B3466C16         | 64GB(16GB*4)  | DS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMK64GX4M4B3466C16R        | 64GB(16GB*4)  | DS |          |   | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR | CMW64GX4M8C3466C16 ver4.31 | 64GB(8GB*8)   | SS | Samsung  | - | 16-18-18-36 | 1.35V | • | • | • |
| Hyper X | HX434C19FBK2/16            | 16GB(8GB*2)   | SS | Micron   |   | 19-23-23-42 | 1.2V  | • | • |   |
| Hyper X | HX434C19FBK2/32            | 32GB(16GB*2)  | DS | Micron   |   | 19-23-23-42 | 1.2V  | • | • |   |
| KLEVV   | KD48GU880-34A170X          | 16GB(8GB*2)   | SS | SK Hynix |   | 17-19-19-39 | 1.35V | • | • |   |

| DR4 3400 Qualified Vendors List  |                     |              |       |            |          |             |         |                                |        |        |        |
|----------------------------------|---------------------|--------------|-------|------------|----------|-------------|---------|--------------------------------|--------|--------|--------|
| Vendors                          | Part No.            | Size         | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                     |              |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| CORSAIR                          | CMK32GX4M4B3400C16  | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMK32GX4M4C3400C16  | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMR32GX4M4C3400C16  | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMU32GX4M4B3400C16  | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMU32GX4M4C3400C16  | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMK32GX4M4C3400C16R | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMU32GX4M4B3400C16R | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMU32GX4M4C3400C16R | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMK16GX4M4B3400C16  | 16GB(4GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMD16GX4M4B3400C16  | 16GB(4GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMK64GX4M8B3400C16  | 64GB(8GB*8)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      | •      |        |
| CORSAIR                          | CMK64GX4M8B3400C16R | 64GB(8GB*8)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      | •      |        |
| DDR4 3333 Qualified Vendors List |                     |              |       |            |          |             |         |                                |        |        |        |
| Vendors                          | Part No.            | Size         | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                     |              |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| CORSAIR                          | CMK16GX4M4B3333C16  | 16GB(4GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMD16GX4M4B3333C16  | 16GB(4GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMK16GX4M4B3333C16R | 16GB(4GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMK32GX4M4B3333C16  | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMR32GX4M4C3333C16  | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMD32GX4M4B3333C16  | 32GB(8GB*4)  | SS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMK64GX4M4B3333C16  | 64GB(16GB*4) | DS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMR64GX4M4C3333C16  | 64GB(16GB*4) | DS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMD64GX4M4B3333C16  | 64GB(16GB*4) | DS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |
| CORSAIR                          | CMK64GX4M4B3333C16R | 64GB(16GB*4) | DS    |            |          | 16-18-18-36 | 1.35V   | •                              | •      |        |        |

|          |                     |               |    |          |   |             |       |   |   |   |
|----------|---------------------|---------------|----|----------|---|-------------|-------|---|---|---|
| CORSAIR  | CMK64GX4M8B3333C16  | 64GB(8GB*8)   | SS |          |   | 16-18-18-36 | 1.35V | • | • | • |
| CORSAIR  | CMD64GX4M8B3333C16  | 64GB(8GB*8)   | SS |          |   | 16-18-18-36 | 1.35V | • | • | • |
| CORSAIR  | CMK128GX4M8B3333C16 | 128GB(16GB*8) | DS |          |   | 16-18-18-36 | 1.35V | • | • | • |
| Kingston | HX433C16PB3K2/16    | 16GB(8GB*2)   | SS |          |   | 16-18-18-36 | 1.35V | • |   |   |
| Hyper X  | HX433C16PB3K4/32    | 32GB(8GB*4)   | SS | Sk Hynix | - | 16-18-18-36 | 1.35V | • | • |   |
| Hyper X  | HX433C16PB3K2/16    | 16GB(8GB*2)   | SS | Sk Hynix | - | 16-18-18-36 | 1.35V | • | • |   |

DDR4 3200 Qualified Vendors List

| Vendors | Part No.             | Size         | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|---------|----------------------|--------------|-------|------------|----------|-------------|---------|--------------------------------|--------|--------|--------|
|         |                      |              |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| G.SKILL | F4-3200C15Q-32GTZSW  | 32GB(8GB*4)  | SS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C15Q-32GTZKK  | 32GB(8GB*4)  | SS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C15Q-32GTZR   | 32GB(8GB*4)  | SS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C14Q-32GTZSW  | 32GB(8GB*4)  | SS    |            |          | 14-14-14-34 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C14Q-32GTZKK  | 32GB(8GB*4)  | SS    |            |          | 14-14-14-34 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C14Q-32GTZR   | 32GB(8GB*4)  | SS    |            |          | 14-14-14-34 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C15Q-64GTZSW  | 64GB(16GB*4) | DS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C15Q-64GTZKK  | 64GB(16GB*4) | DS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C15Q-64GTZR   | 64GB(16GB*4) | DS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C15Q-64GTZSW  | 64GB(16GB*4) | DS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C15Q-64GTZKK  | 64GB(16GB*4) | DS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C15Q-64GTZR   | 64GB(16GB*4) | DS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C14Q-64GTZSW  | 64GB(16GB*4) | DS    |            |          | 14-14-14-34 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C14Q-64GTZKK  | 64GB(16GB*4) | DS    |            |          | 14-14-14-34 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C14Q-64GTZR   | 64GB(16GB*4) | DS    |            |          | 14-14-14-34 | 1.35V   | •                              | •      |        |        |
| G.SKILL | F4-3200C15Q2-64GTZSW | 64GB(8GB*8)  | SS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      | •      |        |
| G.SKILL | F4-3200C15Q2-64GTZKK | 64GB(8GB*8)  | SS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      | •      |        |
| G.SKILL | F4-3200C15Q2-64GTZR  | 64GB(8GB*8)  | SS    |            |          | 15-15-15-35 | 1.35V   | •                              | •      | •      |        |
| G.SKILL | F4-3200C14Q2-64GTZSW | 64GB(8GB*8)  | SS    |            |          | 14-14-14-34 | 1.35V   | •                              | •      | •      |        |



|         |                       |               |    |             |       |   |   |   |
|---------|-----------------------|---------------|----|-------------|-------|---|---|---|
| G.SKILL | F4-3200C14Q2-64GTZKK  | 64GB(8GB*8)   | SS | 14-14-14-34 | 1.35V | ● | ● | ● |
| G.SKILL | F4-3200C14Q2-64GTZR   | 64GB(8GB*8)   | SS | 14-14-14-34 | 1.35V | ● | ● | ● |
| G.SKILL | F4-3200C15Q2-128GTZSW | 128GB(16GB*8) | DS | 15-15-15-35 | 1.35V | ● | ● | ● |
| G.SKILL | F4-3200C15Q2-128GTZKK | 128GB(16GB*8) | DS | 15-15-15-35 | 1.35V | ● | ● | ● |
| G.SKILL | F4-3200C15Q2-128GTZR  | 128GB(16GB*8) | DS | 15-15-15-35 | 1.35V | ● | ● | ● |
| G.SKILL | F4-3200C14Q2-128GTZSW | 128GB(16GB*8) | DS | 14-14-14-34 | 1.35V | ● | ● | ● |
| G.SKILL | F4-3200C14Q2-128GTZKK | 128GB(16GB*8) | DS | 14-14-14-34 | 1.35V | ● | ● | ● |
| G.SKILL | F4-3200C14Q2-128GTZR  | 128GB(16GB*8) | DS | 14-14-14-34 | 1.35V | ● | ● | ● |
| CORSAIR | CMK16GX4M4B3200C14    | 16GB(4GB*4)   | SS | 14-16-16-36 | 1.35V | ● | ● |   |
| CORSAIR | CMK16GX4M4C3200C14    | 16GB(4GB*4)   | SS | 14-16-16-36 | 1.35V | ● | ● |   |
| CORSAIR | CMD16GX4M4B3200C14    | 16GB(4GB*4)   | SS | 14-16-16-36 | 1.35V | ● | ● |   |
| CORSAIR | CMK16GX4M4B3200C15    | 16GB(4GB*4)   | SS | 15-17-17-35 | 1.35V | ● | ● |   |
| CORSAIR | CMK16GX4M4C3200C15    | 16GB(4GB*4)   | SS | 15-17-17-35 | 1.35V | ● | ● |   |
| CORSAIR | CMD16GX4M4B3200C15    | 16GB(4GB*4)   | SS | 15-17-17-35 | 1.35V | ● | ● |   |
| CORSAIR | CMD16GX4M4C3200C15    | 16GB(4GB*4)   | SS | 15-17-17-35 | 1.35V | ● | ● |   |
| CORSAIR | CMK16GX4M4B3200C15R   | 16GB(4GB*4)   | SS | 15-17-17-35 | 1.35V | ● | ● |   |
| CORSAIR | CMK16GX4M4B3200C16    | 16GB(4GB*4)   | SS | 16-18-18-36 | 1.35V | ● | ● |   |
| CORSAIR | CMK16GX4M4C3200C16    | 16GB(4GB*4)   | SS | 16-18-18-36 | 1.35V | ● | ● |   |
| CORSAIR | CMD16GX4M4B3200C16    | 16GB(4GB*4)   | SS | 16-18-18-36 | 1.35V | ● | ● |   |
| CORSAIR | CMD16GX4M4C3200C16    | 16GB(4GB*4)   | SS | 16-18-18-36 | 1.35V | ● | ● |   |
| CORSAIR | CMK16GX4M4B3200C16R   | 16GB(4GB*4)   | SS | 16-18-18-36 | 1.35V | ● | ● |   |
| CORSAIR | CMK16GX4M4C3200C16R   | 16GB(4GB*4)   | SS | 16-18-18-36 | 1.35V | ● | ● |   |
| CORSAIR | CMD16GX4M4B3200C16R   | 16GB(4GB*4)   | SS | 16-18-18-36 | 1.35V | ● | ● |   |
| CORSAIR | CMD32GX4M4C3200C14M   | 32GB(8GB*4)   | SS | 14-16-16-36 | 1.35V | ● | ● |   |
| CORSAIR | CMK32GX4M4B3200C14R   | 32GB(8GB*4)   | SS | 14-16-16-36 | 1.35V | ● | ● |   |
| CORSAIR | CMK32GX4M4B3200C15    | 32GB(8GB*4)   | SS | 15-17-17-35 | 1.35V | ● | ● |   |
| CORSAIR | CMD32GX4M4B3200C15    | 32GB(8GB*4)   | SS | 15-17-17-36 | 1.35V | ● | ● |   |
| CORSAIR | CMK32GX4M4B3200C16    | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | ● | ● |   |

|              |                     |               |    |             |       |   |   |   |
|--------------|---------------------|---------------|----|-------------|-------|---|---|---|
| CORSAIR      | CMK32GX4M4D3200C16  | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMK32GX4M4E3200C16  | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMR32GX4M4C3200C16  | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMR32GX4M4D3200C16  | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMD32GX4M4B3200C16  | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMU32GX4M4C3200C16  | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMU32GX4M4C3200C16B | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMU32GX4M4C3200C16R | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMK32GX4M4C3200C16S | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMK32GX4M4B3200C16W | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMK64GX4M4B3200C16  | 64GB(16GB*4)  | DS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMK64GX4M4C3200C16  | 64GB(16GB*4)  | DS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMR64GX4M4C3200C16  | 64GB(16GB*4)  | DS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMD64GX4M4B3200C16  | 64GB(16GB*4)  | DS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMD64GX4M4C3200C16  | 64GB(16GB*4)  | DS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMU64GX4M4C3200C16  | 64GB(16GB*4)  | DS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMU64GX4M4C3200C16B | 64GB(16GB*4)  | DS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMK64GX4M4B3200C16R | 64GB(16GB*4)  | DS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMU64GX4M4C3200C16R | 64GB(16GB*4)  | DS | 16-18-18-36 | 1.35V | • | • |   |
| CORSAIR      | CMD64GX4M8B3200C16  | 64GB(8GB*8)   | SS | 16-18-18-36 | 1.35V | • | • | • |
| CORSAIR      | CMK64GX4M8B3200C16  | 64GB(8GB*8)   | SS | 16-18-18-36 | 1.35V | • | • | • |
| CORSAIR      | CMK128GX4M8B3200C16 | 128GB(16GB*8) | DS | 16-18-18-36 | 1.35V | • | • | • |
| CORSAIR      | CMD128GX4M8B3200C16 | 128GB(16GB*8) | DS | 16-18-18-36 | 1.35V | • | • | • |
| Kingston     | HX432C16PB3K4/16    | 16GB(4GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| Kingston     | HX432C16PB3K4/32    | 32GB(8GB*4)   | SS | 16-18-18-36 | 1.35V | • | • |   |
| NEO FORZA    | NFMUD480E8-3200DH2A | 64GB(8GB*8)   | SS | 16-18-18-36 | 1.35V | • | • | • |
| NEO FORZA    | NFMUD416E8-3200DH2A | 128GB(16GB*8) | DS | 16-18-18-36 | 1.35V | • | • | • |
| SUPER TALENT | F3200UA4G           | 32GB(4GB*8)   | SS | 17-19-19-39 | 1.35V | • | • | • |

| SUPER TALENT                     | F3200UB16G                          | 128GB(16GB*8)   | DS    |            |          | 16-18-18-36 | 1.35V   | ●                              | ●      | ●      |        |
|----------------------------------|-------------------------------------|-----------------|-------|------------|----------|-------------|---------|--------------------------------|--------|--------|--------|
| Hyper X                          | HX432C18FB2K2/16                    | 16GB(8GB*2)     | SS    | Micron     |          | 18-21-21-39 | 1.2V    | ●                              | ●      |        |        |
| Hyper X                          | HX432C18FBK2/32                     | 32GB(16GB*2)    | DS    | Micron     |          | 18-21-21-39 | 1.2V    | ●                              | ●      |        |        |
| Hyper X                          | HX432C16PB3K4/32                    | 32GB(8GB*4)     | SS    | Micron     | -        | 16-18-18-36 | 1.35V   | ●                              | ●      |        |        |
| FORZA                            | NFMUD480E8-3200DH2A                 | 16GB(8GB*2)     | SS    | -          | -        | 16-18-18-36 | 1.35V   | ●                              | ●      |        |        |
| ADATA                            | AX4U320038G16-BRS                   | 8GB             | SS    | Samsung    | -        | 16-18-18-36 | 1.35V   | ●                              | ●      |        |        |
| APACER                           | AHU08GGB32CKU7M                     | 8GB             | SS    | Samsung    |          | 16-18-18-38 | 1.35V   | ●                              | ●      |        |        |
| ZADAK                            | ZD4-SHA3200C16-08GAS                | 8GB             | SS    | Samsung    |          | 16-18-18-38 | 1.35V   | ●                              | ●      |        |        |
| KINGMAX                          | GZOG43F-18SIGP                      | 8GB             | SS    |            |          | 16-18-18-38 | 1.35V   | ●                              | ●      |        |        |
| V-COLOR                          | TL48G32S8CRGB16                     | 8GB             | SS    | Samsung    |          | 16-18-18-38 | 1.35V   | ●                              | ●      |        |        |
| KLEVV                            | IM48GU88A32-GIIEZ                   | 32GB(8GB*4)     | DS    | SK Hynix   | -        | 16-18-18-38 | 1.35V   | ●                              | ●      |        |        |
| DDR4 3000 Qualified Vendors List |                                     |                 |       |            |          |             |         |                                |        |        |        |
| Vendors                          | Part No.                            | Size            | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                                     |                 |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| ADATA                            | AX4U3000316G16-BGZ(XMP)             | 16GB            | DS    | -          | -        | 16-18-18-36 | 1.35    | ●                              | ●      |        |        |
| ADATA                            | AX4U300038G16-DBZ(XMP)              | 8GB             | SS    | -          | -        | 16-18-18-36 | 1.35    | ●                              | ●      |        |        |
| ADATA                            | AX4U3000W4G16-BWZ(XMP)              | 4GB             | SS    | -          | -        | 16-16-16-36 | 1.35    | ●                              |        |        |        |
| ADATA                            | AX4U3000W8G16-BWZ(XMP)              | 8GB             | DS    | -          | -        | 16-16-16-36 | 1.35    | ●                              | ●      |        |        |
| Apacer                           | EK.16GAW.KFBK2(XMP)                 | 8GB             | DS    | -          | -        | 16-16-16-36 | -       | ●                              | ●      |        |        |
| Apacer                           | AHU08GGB30CDG6H<br>(EK.16GAZ.GEAK2) | 16GB (2x 8GB )  | SS    | Apacer     | -        | 16-16-16-36 | 1.35    | ●                              | ●      |        |        |
| Apacer                           | AHU08GGB30CDU5H<br>(EK.16GAZ.GEBK2) | 16GB (2x 8GB )  | SS    | Apacer     | -        | 16-16-16-36 | 1.35    | ●                              | ●      |        |        |
| CORSAIR                          | CMD16GX4M2B3000C15(Ver4.23)(XMP)    | 16GB ( 2x 8GB ) | DS    | -          | -        | 15-17-17-35 | 1.35    | ●                              |        |        |        |
| CORSAIR                          | CMD16GX4M2B3000C15(Ver5.30)(XMP)    | 16GB ( 2x 8GB ) | SS    | -          | -        | 15-17-17-35 | 1.35    | ●                              |        |        |        |
| CORSAIR                          | CMD16GX4M4B3000C15(Ver4.23)(XMP)    | 16GB ( 4x 4GB ) | SS    | -          | -        | 15-17-17-35 | 1.35    | ●                              | ●      |        |        |
| CORSAIR                          | CMD16GX4M4B3000C15(Ver5.29)(XMP)    | 16GB ( 4x 4GB ) | DS    | -          | -        | 15-17-17-35 | 1.35    | ●                              | ●      |        |        |
| CORSAIR                          | CMD32GX4M4B3000C15(Ver4.23)(XMP)    | 32GB ( 4x 8GB ) | DS    | -          | -        | 15-17-17-35 | 1.35    | ●                              | ●      |        |        |

|         |                                  |                      |    |   |   |             |      |   |   |
|---------|----------------------------------|----------------------|----|---|---|-------------|------|---|---|
| CORSAIR | CMD32GX4M4C3000C15(Ver5.30)(XMP) | 32GB ( 4x 8GB )      | SS | - | - | 15-17-17-35 | 1.35 | ● | ● |
| CORSAIR | CMK16GX4M2B3000C15(Ver4.23)(XMP) | 16GB ( 2x 8GB )      | DS | - | - | 15-17-17-35 | 1.35 | ● |   |
| CORSAIR | CMK16GX4M2B3000C15(Ver5.30)(XMP) | 16GB ( 2x 8GB )      | SS | - | - | 15-17-17-35 | 1.35 | ● |   |
| CORSAIR | CMK16GX4M4B3000C15(Ver5.29)(XMP) | 16GB ( 4x 4GB )      | SS | - | - | 15-17-17-35 | 1.35 | ● | ● |
| CORSAIR | CMK32GX4M2B3000C15(Ver4.31)(XMP) | 32GB ( 2x<br>16GB )  | DS | - | - | 15-17-17-35 | 1.35 | ● |   |
| CORSAIR | CMK32GX4M4B3000C15(Ver4.24)(XMP) | 32GB ( 4x 8GB )      | DS | - | - | 15-17-17-35 | 1.35 | ● | ● |
| CORSAIR | CMK64GX4M4B3000C15(Ver4.31)(XMP) | 64GB ( 4x<br>16GB )  | DS | - | - | 15-17-17-35 | 1.35 | ● | ● |
| CORSAIR | CMK8GX4M2B3000C15(Ver4.23)(XMP)  | 8GB ( 2x 4GB )       | DS | - | - | 15-17-17-35 | 1.35 | ● |   |
| CORSAIR | CMR16GX4M2C3000C15(Ver4.31)(XMP) | 16GB ( 2x 8GB )      | SS | - | - | 15-17-17-35 | 1.35 | ● |   |
| CORSAIR | CMR32GX4M4C3000C15(Ver4.31)(XMP) | 32GB ( 4x 8GB )      | SS | - | - | 15-17-17-35 | 1.35 | ● | ● |
| CORSAIR | CMU16GX4M2C3000C15(Ver3.21)(XMP) | 16GB ( 2x 8GB )      | DS | - | - | 15-17-17-35 | 1.35 | ● |   |
| crucial | BLE4G4D30AEEA.K8FE(XMP)          | 4GB                  | SS | - | - | 15-16-16-35 | 1.35 | ● | ● |
| crucial | BLE8G4D30AEEA.K16FE(XMP)         | 8GB                  | DS | - | - | 15-16-16-35 | 1.35 | ● | ● |
| crucial | BLT4G4D30AETA.K8FE(XMP)          | 4GB                  | SS | - | - | 15-16-16-35 | 1.35 | ● | ● |
| crucial | BLT8G4D30AETA.K16FE(XMP)         | 8GB                  | DS | - | - | 15-16-16-35 | 1.35 | ● | ● |
| G.SKILL | F4-3000C14Q2-128GVK(XMP)         | 128GB ( 8x<br>16GB ) | DS | - | - | 14-14-14-34 | 1.35 | ● | ● |
| G.SKILL | F4-3000C14Q2-128GVRD             | 128GB ( 8x<br>16GB ) | DS |   |   | 14-14-14-34 | 1.35 | ● | ● |
| G.SKILL | F4-3000C14Q2-128GVKD             | 128GB ( 8x<br>16GB ) | DS |   |   | 14-14-14-34 | 1.35 | ● | ● |
| G.SKILL | F4-3000C15D-8GTZB(XMP)           | 8GB ( 2x 4GB )       | SS | - | - | 15-16-16-35 | 1.35 | ● |   |
| G.SKILL | F4-3000C15D-8GTZB                | 8GB ( 2x 4GB )       | SS |   |   | 15-16-16-35 | 1.35 | ● |   |
| G.SKILL | F4-3000C15D-8GVRB                | 8GB ( 2x 4GB )       | SS |   |   | 15-16-16-35 | 1.35 | ● |   |
| G.SKILL | F4-3000C15Q-16GRK(XMP)           | 16GB ( 4x 4GB )      | SS | - | - | 15-15-15-35 | 1.35 | ● | ● |
| G.SKILL | F4-3000C15Q-16GTZ                | 16GB ( 4x 4GB )      | SS |   |   | 15-15-15-35 | 1.35 | ● | ● |

|         |                           |                   |    |      |                  |             |      |   |     |
|---------|---------------------------|-------------------|----|------|------------------|-------------|------|---|-----|
| G.SKILL | F4-3000C15Q-16GVR         | 16GB ( 4x 4GB )   | SS |      |                  | 15-15-15-35 | 1.35 | • | •   |
| G.SKILL | F4-3000C15Q-16GVB         | 16GB ( 4x 4GB )   | SS |      |                  | 15-15-15-35 | 1.35 | • | •   |
| G.SKILL | F4-3000C15Q-16GVK         | 16GB ( 4x 4GB )   | SS |      |                  | 15-15-15-35 | 1.35 | • | •   |
| G.SKILL | F4-3000C15Q-16GVG         | 16GB ( 4x 4GB )   | SS |      |                  | 15-15-15-35 | 1.35 | • | •   |
| G.SKILL | F4-3000C15Q-16GVS         | 16GB ( 4x 4GB )   | SS |      |                  | 15-15-15-35 | 1.35 | • | •   |
| G.SKILL | F4-3000C15Q-16GRR(XMP)    | 16GB ( 4x 4GB )   | SS | -    | -                | 15-15-15-35 | 1.35 | • | •   |
| G.SKILL | F4-3000C15Q-32GRK(XMP)    | 32GB ( 4x 8GB )   | DS | -    | -                | 15-15-15-35 | 1.35 | • |     |
| G.SKILL | F4-3000C15Q-32GTZ         | 32GB ( 4x 8GB )   | DS |      |                  | 15-15-15-35 | 1.35 | • |     |
| G.SKILL | F4-3000C15Q-32GVR         | 32GB ( 4x 8GB )   | DS |      |                  | 15-15-15-35 | 1.35 | • |     |
| G.SKILL | F4-3000C15Q-32GVB         | 32GB ( 4x 8GB )   | DS |      |                  | 15-15-15-35 | 1.35 | • |     |
| G.SKILL | F4-3000C15Q-32GVK         | 32GB ( 4x 8GB )   | DS |      |                  | 15-15-15-35 | 1.35 | • |     |
| G.SKILL | F4-3000C15Q-32GVG         | 32GB ( 4x 8GB )   | DS |      |                  | 15-15-15-35 | 1.35 | • |     |
| G.SKILL | F4-3000C15Q-32GVS         | 32GB ( 4x 8GB )   | DS |      |                  | 15-15-15-35 | 1.35 | • |     |
| G.SKILL | F4-3000C16Q2-128GVKB(XMP) | 128GB ( 8x 16GB ) | DS | -    | -                | 16-18-18-38 | 1.35 | • | • • |
| GelL    | GLR416GB3000C16QC(XMP)    | 16GB ( 4x 4GB )   | SS | -    | -                | 16-16-16-36 | 1.35 | • | •   |
| GelL    | GWV416GB3000C15DC(XMP)    | 16GB ( 2x 8GB )   | DS | GelL | CG4L512G88BA093L | 15-17-17-35 | 1.35 | • |     |
| Hyper X | HX430C15PB3K4/64(XMP)     | 64GB ( 4x 16GB )  | DS | -    | -                | 15-17-17-36 | 1.35 | • | •   |
| Hyper X | HX430C15SB2/4(XMP)        | 4GB               | SS | -    | -                | 15-17-17-39 | 1.35 | • | •   |
| Hyper X | HX430C15SB2K2/8(XMP)      | 8GB ( 2x 4GB )    | SS | -    | -                | 15-17-17-39 | 1.35 | • |     |
| Hyper X | HX430C15SB2K4/16(XMP)     | 16GB ( 4x 4GB )   | SS | -    | -                | 15-17-17-39 | 1.35 | • | •   |
| Hyper X | HX430C15SBK2/16(XMP)      | 16GB ( 2x 8GB )   | DS | -    | -                | 15-16-16-39 | 1.35 | • |     |
| Hyper X | HX430C16PBK4/64(XMP)      | 64GB ( 4x 16GB )  | DS | -    | -                | 16-16-16-39 | 1.35 | • | •   |
| Klevv   | IM44GU48A30-FGGHAZ(XMP)   | 4GB               | SS | -    | -                | 15-15-16-36 | 1.35 | • | •   |
| Klevv   | IM44GU48A30-GIIHMC(XMP)   | 4GB               | SS | -    | -                | 16-18-18-36 | 1.35 | • | •   |
| Klevv   | IM44GU48N30-FFFHAB(XMP)   | 4GB               | SS | -    | -                | 15-15-16-36 | 1.2  | • | •   |

|           |                          |                 |    |           |              |             |      |   |   |
|-----------|--------------------------|-----------------|----|-----------|--------------|-------------|------|---|---|
| Klevv     | IM48GU48A30-GIIHMC(XMP)  | 8GB             | DS | -         | -            | 16-18-18-36 | 1.35 | • | • |
| Klevv     | IM48GU88A30-FGGHMHZ(XMP) | 8GB             | DS | -         | -            | 15-15-16-36 | 1.35 | • | • |
| Klevv     | IM4AGU88A30-FGGHMHZ(XMP) | 16GB            | DS | -         | -            | 15-15-16-36 | 1.35 | • | • |
| Klevv     | IM4AGU88N30-FFFHMB(XMP)  | 16GB            | DS | -         | -            | 15-15-16-36 | 1.2  | • | • |
| NEO FORZA | NFMUD416E8-3000DB2A(XMP) | 16GB            | DS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD416E8-3000DB3A(XMP) | 16GB            | DS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD416E8-3000DC2A(XMP) | 16GB            | DS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD416E8-3000DC3A(XMP) | 16GB            | DS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD416E8-3000DD2A(XMP) | 16GB            | DS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD416E8-3000DD3A(XMP) | 16GB            | DS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD416E8-3000DH2A(XMP) | 16GB            | DS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD416E8-3000DH2A(XMP) | 16GB            | DS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD480E8-3000DB2A(XMP) | 8GB             | SS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD480E8-3000DB3A(XMP) | 8GB             | SS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD480E8-3000DC2A(XMP) | 8GB             | SS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD480E8-3000DC3A(XMP) | 8GB             | SS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD480E8-3000DD2A(XMP) | 8GB             | SS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD480E8-3000DD3A(XMP) | 8GB             | SS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD480E8-3000DH2A(XMP) | 8GB             | SS | -         | -            | 15-17-17-35 | -    | • | • |
| NEO FORZA | NFMUD480E8-3000DH2A(XMP) | 8GB             | SS | -         | -            | 15-17-17-35 | -    | • | • |
| PATRIOT   | PV48G300C6K(XMP)         | 8GB ( 2x 4GB )  | SS | -         | -            | 16-16-16-36 | 1.35 | • | • |
| PATRIOT   | PV416G300C6K(XMP)        | 16GB ( 2x 8GB ) | SS | -         | -            | 16-16-16-36 | -    | • |   |
| PATRIOT   | PVE48G300C6KRD(XMP)      | 8GB ( 2x 4GB )  | SS | -         | -            | 16-16-16-36 | -    | • |   |
| Teamgroup | TCD44G3000C16CBK(XMP)    | 4GB             | SS | Teamgroup | T4D5128HT-30 | 16-18-18-38 | 1.35 | • | • |
| Teamgroup | TLRED416G3000HC16CQC01   | 16GB(4GB*4)     | SS | Teamgroup | T4D5128HT-30 | 16-18-18-38 | 1.35 | • | • |
| Teamgroup | TLGD416G3000HC16CQC01    | 16GB(4GB*4)     | SS | Teamgroup | T4D5128HT-30 | 16-18-18-38 | 1.35 | • | • |
| Teamgroup | TDRED416G3000HC16CQC01   | 16GB(4GB*4)     | SS | Teamgroup | T4D5128HT-30 | 16-18-18-38 | 1.35 | • | • |
| Teamgroup | TDGED416G3000HC16CQC01   | 16GB(4GB*4)     | SS | Teamgroup | T4D5128HT-30 | 16-18-18-38 | 1.35 | • | • |

|           |                        |             |    |           |                |             |      |     |
|-----------|------------------------|-------------|----|-----------|----------------|-------------|------|-----|
| Teamgroup | TLRED48G3000HC16CDC01  | 8GB(4GB*2)  | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TLGD48G3000HC16CDC01   | 8GB(4GB*2)  | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TDRED48G3000HC16CDC01  | 8GB(4GB*2)  | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TDGED48G3000HC16CDC01  | 8GB(4GB*2)  | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TFRD48G3000C16CBK(XMP) | 8GB         | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TLRED432G3000HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | TLGD432G3000HC16CQC01  | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | TDRED432G3000HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | TDGED432G3000HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | TDPRD432G3000HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | TDPGD432G3000HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | THRD432G3000HC16CQC01  | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | THWD432G3000HC16CQC01  | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | THBD432G3000HC16CQC01  | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | TDTRD432G3000HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | TDTWD432G3000HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | TDTBD432G3000HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● ● |
| Teamgroup | TLRED416G3000HC16CDC01 | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TLGD416G3000HC16CDC01  | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TDRED416G3000HC16CDC01 | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TDGED416G3000HC16CDC01 | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TDPRD416G3000HC16CDC01 | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TDPGD416G3000HC16CDC01 | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | THRD416G3000HC16CDC01  | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | THWD416G3000HC16CDC01  | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | THBD416G3000HC16CDC01  | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TDTRD416G3000HC16CDC01 | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |
| Teamgroup | TDTWD416G3000HC16CDC01 | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ●   |

|           |                         |              |    |           |                |             |      |   |   |
|-----------|-------------------------|--------------|----|-----------|----------------|-------------|------|---|---|
| Teamgroup | TDTBD416G3000HC16CDC01  | 16GB(8GB*2)  | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.35 | ● |   |
| Teamgroup | TFWD416G3000C16CBK(XMP) | 16GB         | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● | ● |
| Teamgroup | TDPRD464G3000HC16CQC01  | 64GB(16GB*4) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● | ● |
| Teamgroup | TDPGD464G3000HC16CQC01  | 64GB(16GB*4) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● | ● |
| Teamgroup | THRD464G3000HC16CQC01   | 64GB(16GB*4) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● | ● |
| Teamgroup | THWD464G3000HC16CQC01   | 64GB(16GB*4) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● | ● |
| Teamgroup | THBD464G3000HC16CQC01   | 64GB(16GB*4) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● | ● |
| Teamgroup | TDTRD464G3000HC16CQC01  | 64GB(16GB*4) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● | ● |
| Teamgroup | TDTWD464G3000HC16CQC01  | 64GB(16GB*4) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● | ● |
| Teamgroup | TDTBD464G3000HC16CQC01  | 64GB(16GB*4) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● | ● |
| Teamgroup | TDPRD432G3000HC16CDC01  | 32GB(16GB*2) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● |   |
| Teamgroup | TDPGD432G3000HC16CDC01  | 32GB(16GB*2) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● |   |
| Teamgroup | THRD432G3000HC16CDC01   | 32GB(16GB*2) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● |   |
| Teamgroup | THWD432G3000HC16CDC01   | 32GB(16GB*2) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● |   |
| Teamgroup | THBD432G3000HC16CDC01   | 32GB(16GB*2) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● |   |
| Teamgroup | TDTRD432G3000HC16CDC01  | 32GB(16GB*2) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● |   |
| Teamgroup | TDTWD432G3000HC16CDC01  | 32GB(16GB*2) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● |   |
| Teamgroup | TDTBD432G3000HC16CDC01  | 32GB(16GB*2) | DS | Teamgroup | T4D10248HT-30  | 16-18-18-38 | 1.35 | ● |   |

| DDR4 2800 Qualified Vendors List |                         |      |       |            |          |             |         |                                |        |        |        |
|----------------------------------|-------------------------|------|-------|------------|----------|-------------|---------|--------------------------------|--------|--------|--------|
| Vendors                          | Part No.                | Size | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                         |      |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| ADATA                            | AX4U2800316G16(XMP)     | 16GB | DS    | -          | -        | 16-16-16-36 | 1.2     | ●                              | ●      |        |        |
| ADATA                            | AX4U2800316G16-SBF(XMP) | 16GB | DS    | -          | -        | 16-16-16-36 | 1.2     | ●                              | ●      |        |        |
| ADATA                            | AX4U280038G17-SBF(XMP)  | 8GB  | SS    | -          | -        | 17-17-17-36 | 1.2     | ●                              | ●      |        |        |
| ADATA                            | AX4U2800W4G17-BRZ(XMP)  | 4GB  | SS    | -          | -        | 17-17-17-36 | 1.2     | ●                              | ●      |        |        |
| ADATA                            | AX4U2800W8G15(XMP)      | 8GB  | DS    | -          | -        | 15-16-16-35 | 1.25    | ●                              |        |        |        |
| ADATA                            | AX4U2800W8G17-BRD(XMP)  | 8GB  | DS    | -          | -        | 17-17-17-36 | 1.2     | ●                              | ●      |        |        |
| ADATA                            | AX4U2800W8G17-BRZ(XMP)  | 8GB  | DS    | -          | -        | 17-17-17-36 | 1.2     | ●                              | ●      |        |        |



|         |                                     |                      |    |        |   |             |      |   |     |
|---------|-------------------------------------|----------------------|----|--------|---|-------------|------|---|-----|
| Apacer  | 78.BAGM8.AF20B(XMP)                 | 16GB (4x 4GB )       | SS | -      | - | 17-17-17-36 | -    | ● | ●   |
| Apacer  | EK.16GAW.KFAK2(XMP)                 | 8GB                  | DS | -      | - | 17-17-17-36 | -    | ● |     |
| Apacer  | AHU08GGB28CET6H<br>(EK.16GAW.KFAK2) | 8GB                  | DS | Apacer | - | 17-17-17-36 | 1.2  | ● |     |
| Apacer  | AHU08GGB28CEU6H<br>(EK.16GAW.GFAK2) | 16GB (2x 8GB )       | SS | Apacer | - | 17-17-17-36 | 1.2  | ● |     |
| Apacer  | AHU08GGB28CEU5H<br>(EK.16GAW.GFBK2) | 16GB (2x 8GB )       | SS | Apacer | - | 17-17-17-36 | 1.2  | ● |     |
| CORSAIR | CMD16GX4M4A2800C16(Ver4.23)(XMP)    | 16GB ( 4x 4GB )      | SS | -      | - | 16-18-18-36 | 1.2  | ● | ●   |
| CORSAIR | CMD16GX4M4A2800C16(Ver5.29)(XMP)    | 16GB ( 4x 4GB )      | SS | -      | - | 16-18-18-36 | 1.2  | ● | ●   |
| CORSAIR | CMK16GX4M4A2800C16(Ver4.23)(XMP)    | 16GB ( 4x 4GB )      | SS | -      | - | 16-16-18-36 | 1.2  | ● | ●   |
| CORSAIR | CMK16GX4M4A2800C16(Ver5.29)(XMP)    | 16GB ( 4x 4GB )      | SS | -      | - | 16-18-18-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C14Q-64GVK(XMP)              | 64GB ( 4x<br>16GB )  | DS | -      | - | 14-14-14-35 | 1.35 | ● | ●   |
| G.SKILL | F4-2800C15Q2-128GRKD(XMP)           | 128GB ( 8x<br>16GB ) | DS | -      | - | 15-15-15-35 | 1.35 | ● | ● ● |
| G.SKILL | F4-2800C15Q2-64GRK(XMP)             | 64GB ( 8x 8GB )      | DS | -      | - | 15-16-16-35 | 1.25 | ● | ● ● |
| G.SKILL | F4-2800C16Q-16GRK(XMP)              | 16GB ( 4x 4GB )      | SS | -      | - | 16-16-16-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C16Q-16GVR                   | 16GB ( 4x 4GB )      | SS |        |   | 16-16-16-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C16Q-16GVB                   | 16GB ( 4x 4GB )      | SS |        |   | 16-16-16-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C16Q-16GVK                   | 16GB ( 4x 4GB )      | SS |        |   | 16-16-16-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C16Q-16GVG                   | 16GB ( 4x 4GB )      | SS |        |   | 16-16-16-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C16Q-16GVS                   | 16GB ( 4x 4GB )      | SS |        |   | 16-16-16-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C16Q-16GRR(XMP)              | 16GB ( 4x 4GB )      | SS | -      | - | 16-16-16-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C16Q-32GRK(XMP)              | 32GB ( 4x 8GB )      | DS | -      | - | 16-16-16-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C16Q-32GRR(XMP)              | 32GB ( 4x 8GB )      | DS | -      | - | 16-16-16-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C16Q-32GVR                   | 32GB ( 4x 8GB )      | DS |        |   | 16-16-16-36 | 1.2  | ● | ●   |
| G.SKILL | F4-2800C16Q-32GVB                   | 32GB ( 4x 8GB )      | DS |        |   | 16-16-16-36 | 1.2  | ● | ●   |

|           |                                 |                 |    |           |              |                  |      |   |   |
|-----------|---------------------------------|-----------------|----|-----------|--------------|------------------|------|---|---|
| G.SKILL   | F4-2800C16Q-32GVK               | 32GB ( 4x 8GB ) | DS |           |              | 16-16-16-36      | 1.2  | • | • |
| G.SKILL   | F4-2800C16Q-32GVG               | 32GB ( 4x 8GB ) | DS |           |              | 16-16-16-36      | 1.2  | • | • |
| G.SKILL   | F4-2800C16Q-32GVS               | 32GB ( 4x 8GB ) | DS |           |              | 16-16-16-36      | 1.2  | • | • |
| GelL      | GPR416GB2800C16QC(XMP)          | 16GB ( 4x 4GB ) | SS | -         | -            | 16-16-16-36      | 1.2  | • | • |
| GelL      | GPR432GB2800C16QC(XMP)          | 32GB ( 4x 8GB ) | DS | -         | -            | 16-16-16-36      | 1.2  | • | • |
| Hyper X   | HX428C14PBK8/64(XMP)            | 64GB (8x 8GB )  | DS | -         | -            | 14-15-15-39      | 1.35 |   | • |
| Hyper X   | HX428C14SB2/4(XMP)              | 4GB             | SS | -         | -            | 14-16-16-39      | 1.35 | • | • |
| Hyper X   | HX428C14SB2/8(XMP)              | 8GB             | DS | -         | -            | 14-16-16-39      | 1.35 | • | • |
| Hyper X   | HX428C14SB2K2/16(XMP)           | 16GB ( 2x 8GB ) | DS | -         | -            | 14-16-16-39      | 1.35 | • |   |
| Hyper X   | HX428C14SB2K2/8(XMP)            | 8GB ( 2x 4GB )  | SS | -         | -            | 14-16-16-39      | 1.35 | • |   |
| Hyper X   | HX428C14SB2K4/16(XMP)           | 16GB ( 4x 4GB ) | SS | -         | -            | 14-16-16-39      | 1.35 | • | • |
| Hyper X   | HX428C14SB2K4/32(XMP)           | 32GB ( 4x 8GB ) | DS | -         | -            | 14-16-16-39      | 1.35 | • | • |
| KleVV     | IMA451U6MFR8N-DG0(Ver1.05)(XMP) | 4GB             | SS | -         | -            | 16-16-16-36      | 1.2  |   | • |
| NEO FORZA | NMUD416E81-2800EB30             | 64GB(4x16GB)    | DS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD416E82-2800EB30             | 64GB(4x16GB)    | DS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD416E81-2800EC30             | 64GB(4x16GB)    | DS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD416E82-2800EC30             | 64GB(4x16GB)    | DS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD416E81-2800ED30             | 64GB(4x16GB)    | DS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD416E82-2800ED30             | 64GB(4x16GB)    | DS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD480E81-2800EB30             | 32GB ( 4x 8GB ) | SS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD480E82-2800EB30             | 32GB ( 4x 8GB ) | SS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD480E81-2800EC30             | 32GB ( 4x 8GB ) | SS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD480E82-2800EC30             | 32GB ( 4x 8GB ) | SS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD480E8-2800DD2A(XMP)         | 32GB ( 4x 8GB ) | SS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD480E81-2800ED30             | 32GB ( 4x 8GB ) | SS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| NEO FORZA | NMUD480E82-2800ED30             | 32GB ( 4x 8GB ) | SS | -         | -            | 2800-17-17-17-36 | -    |   | • |
| Teamgroup | TCD44G2800C16CBK(XMP)           | 4GB             | SS | Teamgroup | T4D5128HT-30 | 16-18-18-38      | 1.2  |   | • |
| Teamgroup | TLRED416G2800HC16CQC01          | 16GB(4GB*4)     | SS | Teamgroup | T4D5128HT-30 | 16-18-18-38      | 1.2  |   | • |

|           |                        |             |    |           |                |             |     |   |
|-----------|------------------------|-------------|----|-----------|----------------|-------------|-----|---|
| Teamgroup | TLGD416G2800HC16CQC01  | 16GB(4GB*4) | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.2 | • |
| Teamgroup | TDRED416G2800HC16CQC01 | 16GB(4GB*4) | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.2 | • |
| Teamgroup | TDGED416G2800HC16CQC01 | 16GB(4GB*4) | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.2 | • |
| Teamgroup | TLRED48G2800HC16CDC01  | 8GB(4GB*2)  | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.2 | • |
| Teamgroup | TLGD48G2800HC16CDC01   | 8GB(4GB*2)  | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.2 | • |
| Teamgroup | TDRED48G2800HC16CDC01  | 8GB(4GB*2)  | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.2 | • |
| Teamgroup | TDGED48G2800HC16CDC01  | 8GB(4GB*2)  | SS | Teamgroup | T4D5128HT-30   | 16-18-18-38 | 1.2 | • |
| Teamgroup | TFRD48G2800C16CBK(XMP) | 8GB         | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | TLRED432G2800HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | TLGD432G2800HC16CQC01  | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | TDRED432G2800HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | TDGED432G2800HC16CQC01 | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | THRD432G2800HC16CQC01  | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | THWD432G2800HC16CQC01  | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | THBD432G2800HC16CQC01  | 32GB(8GB*4) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | TLRED416G2800HC16CDC01 | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | TLGD416G2800HC16CDC01  | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | TDRED416G2800HC16CDC01 | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | TDGED416G2800HC16CDC01 | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | THRD416G2800HC16CDC01  | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | THWD416G2800HC16CDC01  | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |
| Teamgroup | THBD416G2800HC16CDC01  | 16GB(8GB*2) | DS | -         | K4A4G085WSBCPB | 16-18-18-38 | 1.2 | • |

## DDR4 2666 Qualified Vendors List

| Vendors | Part No.               | Size            | SS/DS | Chip Brand | Chip NO. | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|---------|------------------------|-----------------|-------|------------|----------|-------------|---------|--------------------------------|--------|--------|--------|
|         |                        |                 |       |            |          |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| ADATA   | AX4U266638G16-DRZ(XMP) | 16GB ( 2x 8GB ) | SS    | -          | -        | 16-16-16-39 | 1.2     | •                              |        |        |        |
| ADATA   | AX4U2666W4G16-BRZ(XMP) | 4GB             | SS    | -          | -        | 16-16-16-39 | 1.2     | •                              | •      |        |        |
| ADATA   | AX4U2666W8G16-QRZ(XMP) | 32GB ( 4x 8GB ) | DS    | -          | -        | 16-16-16-39 | 1.2     | •                              |        | •      |        |

|         |                                   |                      |    |   |   |             |     |   |   |   |
|---------|-----------------------------------|----------------------|----|---|---|-------------|-----|---|---|---|
| CORSAIR | CMD128GX4M8A2666C15(Ver4.31)(XMP) | 128GB ( 8x<br>16GB ) | DS | - | - | 15-17-17-35 | 1.2 | ● | ● | ● |
| CORSAIR | CMD16GX4M2A2666C15(Ver4.23)(XMP)  | 16GB ( 2x 8GB )      | DS | - | - | 15-17-17-35 | 1.2 | ● | ● |   |
| CORSAIR | CMD16GX4M4A2666C15(Ver4.23)(XMP)  | 16GB ( 4x 4GB )      | SS | - | - | 15-17-17-35 | 1.2 | ● | ● |   |
| CORSAIR | CMD16GX4M4A2666C16(Ver4.23)(XMP)  | 16GB ( 4x 4GB )      | SS | - | - | 16-18-18-35 | 1.2 | ● | ● |   |
| CORSAIR | CMD16GX4M4A2666C16(Ver5.29)(XMP)  | 16GB ( 4x 4GB )      | SS | - | - | 16-18-18-35 | 1.2 | ● | ● |   |
| CORSAIR | CMD32GX4M4A2666C15(Ver4.23)(XMP)  | 32GB ( 4x 8GB )      | DS | - | - | 15-17-17-35 | 1.2 | ● | ● |   |
| CORSAIR | CMD32GX4M4A2666C15(Ver5.29)(XMP)  | 32GB ( 4x 8GB )      | DS | - | - | 15-17-17-35 | 1.2 | ● | ● |   |
| CORSAIR | CMD32GX4M4A2666C16(Ver4.23)(XMP)  | 32GB ( 4x 8GB )      | DS | - | - | 16-18-18-35 | 1.2 | ● | ● |   |
| CORSAIR | CMD64GX4M8A2666C15(Ver4.23)(XMP)  | 64GB ( 8x 8GB )      | DS | - | - | 15-17-17-35 | 1.2 | ● | ● |   |
| CORSAIR | CMD64GX4M8A2666C15(Ver4.24)(XMP)  | 64GB ( 8x 8GB )      | DS | - | - | 15-17-17-35 | 1.2 | ● | ● |   |
| CORSAIR | CMD8GX4M2A2666C15(Ver4.23)(XMP)   | 8GB ( 2x 4GB )       | DS | - | - | 15-17-17-35 | 1.2 | ● |   |   |
| CORSAIR | CMK128GX4M8A2666C16(Ver5.39)(XMP) | 128GB ( 8x<br>16GB ) | DS | - | - | 16-18-18-35 | 1.2 | ● | ● | ● |
| CORSAIR | CMK16GX4M2A2666C16(Ver5.29)(XMP)  | 16GB ( 2x 8GB )      | DS | - | - | 16-18-18-35 | 1.2 | ● |   |   |
| CORSAIR | CMK16GX4M2A2666C16(Ver5.30)(XMP)  | 16GB ( 2x 8GB )      | SS | - | - | 16-18-18-35 | 1.2 | ● |   |   |
| CORSAIR | CMK16GX4M4A2666C15(Ver4.23)(XMP)  | 16GB ( 4x 4GB )      | SS | - | - | 15-17-17-35 | 1.2 | ● | ● |   |
| CORSAIR | CMK16GX4M4A2666C15(Ver5.29)(XMP)  | 16GB ( 4x 4GB )      | SS | - | - | 15-17-17-35 | 1.2 | ● | ● |   |
| CORSAIR | CMK16GX4M4A2666C16(Ver3.21)(XMP)  | 16GB ( 4x 4GB )      | SS | - | - | 16-18-18-35 | 1.2 | ● | ● |   |
| CORSAIR | CMK16GX4M4A2666C16(Ver4.23)(XMP)  | 16GB ( 4x 4GB )      | SS | - | - | 16-18-18-35 | 1.2 | ● | ● |   |
| CORSAIR | CMK16GX4M4A2666C16(Ver5.29)(XMP)  | 16GB ( 4x 4GB )      | SS | - | - | 16-18-18-35 | 1.2 | ● | ● |   |
| CORSAIR | CMK32GX4M2A2666C16(Ver4.31)(XMP)  | 32GB ( 2x<br>16GB )  | DS | - | - | 16-18-18-35 | 1.2 | ● |   |   |
| CORSAIR | CMK32GX4M2A2666C16R(Ver3.31)(XMP) | 32GB ( 2x<br>16GB )  | DS | - | - | 16-18-18-35 | 1.2 | ● |   |   |
| CORSAIR | CMK32GX4M4A2666C15(Ver4.23)(XMP)  | 32GB ( 4x 8GB )      | DS | - | - | 15-17-17-35 | 1.2 | ● | ● |   |
| CORSAIR | CMK32GX4M4A2666C15(Ver5.29)(XMP)  | 32GB ( 4x 8GB )      | DS | - | - | 15-17-17-35 | 1.2 | ● | ● |   |
| CORSAIR | CMK32GX4M4A2666C16(Ver3.20)(XMP)  | 32GB ( 4x 8GB )      | DS | - | - | 16-18-18-35 | 1.2 | ● | ● |   |

|         |                                   |                     |    |   |   |             |     |   |   |
|---------|-----------------------------------|---------------------|----|---|---|-------------|-----|---|---|
| CORSAIR | CMK32GX4M4A2666C16(Ver3.21)(XMP)  | 32GB ( 4x 8GB )     | DS | - | - | 16-18-18-35 | 1.2 | ● | ● |
| CORSAIR | CMK32GX4M4A2666C16(Ver5.29)(XMP)  | 32GB ( 4x 8GB )     | DS | - | - | 16-16-18-35 | 1.2 | ● | ● |
| CORSAIR | CMK32GX4M4A2666C16(Ver5.30)(XMP)  | 32GB ( 4x 8GB )     | SS | - | - | 16-18-18-35 | 1.2 | ● | ● |
| CORSAIR | CMK32GX4M4A2666C16R(Ver4.23)(XMP) | 32GB ( 4x 8GB )     | DS | - | - | 16-18-18-35 | 1.2 | ● | ● |
| CORSAIR | CMK64GX4M4A2666C16(Ver3.31)(XMP)  | 64GB ( 4x<br>16GB ) | DS | - | - | 16-18-18-35 | 1.2 | ● | ● |
| CORSAIR | CMK64GX4M4A2666C16(Ver4.31)(XMP)  | 64GB ( 4x<br>16GB ) | DS | - | - | 16-18-18-35 | 1.2 | ● | ● |
| CORSAIR | CMU32GX4M4A2666C16(Ver5.30)(XMP)  | 32GB ( 4x 8GB )     | SS | - | - | 16-18-18-35 | 1.2 | ● | ● |
| crucial | BLE4G4D26AFEA.8FAD (XMP)          | 4GB                 | SS | - | - | 16-17-17-36 | 1.2 | ● | ● |
| crucial | BLE8G4D26AFEA.16FAD(XMP)          | 8GB                 | DS | - | - | 16-17-17-36 | 1.2 | ● | ● |
| crucial | BLS16G4D26BFSC.16FBD(XMP)         | 16GB                | DS | - | - | 16-18-18-38 | 1.2 | ● | ● |
| crucial | BLS4G4D26BFSC.8FBR2(XMP)          | 4GB                 | SS | - | - | 16-18-18-38 | 1.2 | ● | ● |
| crucial | BLS8G4D26BFSC.16FBR2(XMP)         | 8GB                 | DS | - | - | 16-18-18-38 | 1.2 | ● | ● |
| crucial | BLT4G4D26AFTA.8FADG(XMP)          | 16GB ( 4x4GB )      | SS | - | - | 16-17-17-36 | 1.2 | ● | ● |
| crucial | BLT4G4D26AFTA.8FADG(XMP)          | 4GB                 | SS | - | - | 16-17-17-36 | 1.2 | ● | ● |
| crucial | BLT8G4D26AFTA.16FAD(XMP)          | 32GB ( 4x 8GB )     | DS | - | - | 16-17-17-36 | 1.2 | ● | ● |
| crucial | BLT8G4D26AFTA.16FAD(XMP)          | 8GB                 | DS | - | - | 16-17-17-36 | 1.2 | ● | ● |
| G.SKILL | F4-2666C15Q-16GRR(XMP)            | 16GB ( 4x 4GB )     | SS | - | - | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL | F4-2666C15Q-16GVR                 | 16GB ( 4x 4GB )     | SS |   |   | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL | F4-2666C15Q-16GVB                 | 16GB ( 4x 4GB )     | SS |   |   | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL | F4-2666C15Q-16GVG                 | 16GB ( 4x 4GB )     | SS |   |   | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL | F4-2666C15Q-16GVK                 | 16GB ( 4x 4GB )     | SS |   |   | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL | F4-2666C15Q-16GVS                 | 16GB ( 4x 4GB )     | SS |   |   | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL | F4-2666C15Q-16GRK                 | 16GB ( 4x 4GB )     | SS |   |   | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL | F4-2666C15Q-16GRB                 | 16GB ( 4x 4GB )     | SS |   |   | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL | F4-2666C15Q-32GRR(XMP)            | 32GB ( 4x 8GB )     | DS | - | - | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL | F4-2666C15Q-32GVR                 | 32GB ( 4x 8GB )     | DS |   |   | 15-15-15-35 | 1.2 | ● | ● |

|           |                          |                      |    |           |                |             |     |   |   |
|-----------|--------------------------|----------------------|----|-----------|----------------|-------------|-----|---|---|
| G.SKILL   | F4-2666C15Q-32GVB        | 32GB ( 4x 8GB )      | DS |           |                | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL   | F4-2666C15Q-32GVG        | 32GB ( 4x 8GB )      | DS |           |                | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL   | F4-2666C15Q-32GVK        | 32GB ( 4x 8GB )      | DS |           |                | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL   | F4-2666C15Q-32GVS        | 32GB ( 4x 8GB )      | DS |           |                | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL   | F4-2666C15Q-32GRK        | 32GB ( 4x 8GB )      | DS |           |                | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL   | F4-2666C15Q-32GRB        | 32GB ( 4x 8GB )      | DS |           |                | 15-15-15-35 | 1.2 | ● | ● |
| G.SKILL   | F4-2666C16Q2-128GVK(XMP) | 128GB ( 8x<br>16GB ) | DS | -         | -              | 16-16-16-36 | 1.2 | ● | ● |
| G.SKILL   | F4-2666C16Q2-128GVR      | 128GB ( 8x<br>16GB ) | DS |           |                | 16-16-16-36 | 1.2 | ● | ● |
| Teamgroup | TCD44G2666C15BBK(XMP)    | 4GB                  | SS | Teamgroup | T4D5128HT-266  | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | TLRED416G2666HC15BQC01   | 16GB(4GB*4)          | SS | Teamgroup | T4D5128HT-266  | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | TLGD416G2666HC15BQC01    | 16GB(4GB*4)          | SS | Teamgroup | T4D5128HT-266  | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | TDRED416G2666HC15BQC01   | 16GB(4GB*4)          | SS | Teamgroup | T4D5128HT-266  | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | TDGED416G2666HC15BQC01   | 16GB(4GB*4)          | SS | Teamgroup | T4D5128HT-266  | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | TLRED48G2666HC15BDC01    | 8GB(4GB*2)           | SS | Teamgroup | T4D5128HT-266  | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TLGD48G2666HC15BDC01     | 8GB(4GB*2)           | SS | Teamgroup | T4D5128HT-266  | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDRED48G2666HC15BDC01    | 8GB(4GB*2)           | SS | Teamgroup | T4D5128HT-266  | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDGED48G2666HC15BDC01    | 8GB(4GB*2)           | SS | Teamgroup | T4D5128HT-266  | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TFRD416G2666C15BBK(XMP)  | 16GB                 | DS | -         | K4ABG085WBBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | THRD464G2666HC15BQC01    | 64GB(16GB*4)         | DS | -         | K4ABG085WBBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | THWD464G2666HC15BQC01    | 64GB(16GB*4)         | DS | -         | K4ABG085WBBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | THBD464G2666HC15BQC01    | 64GB(16GB*4)         | DS | -         | K4ABG085WBBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | THRD432G2666HC15BDC01    | 32GB(16GB*2)         | DS | -         | K4ABG085WBBCPB | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | THWD432G2666HC15BDC01    | 32GB(16GB*2)         | DS | -         | K4ABG085WBBCPB | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | THBD432G2666HC15BDC01    | 32GB(16GB*2)         | DS | -         | K4ABG085WBBCPB | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TFWD48G2666C15BBK(XMP)   | 8GB                  | DS | -         | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | TLRED432G2666HC15BQC01   | 32GB(8GB*4)          | DS | -         | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● | ● |

|           |                        |              |    |          |                |             |     |   |   |
|-----------|------------------------|--------------|----|----------|----------------|-------------|-----|---|---|
| Teamgroup | TLGD432G2666HC15BQC01  | 32GB(8GB*4)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | TDRED432G2666HC15BQC01 | 32GB(8GB*4)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | TDGED432G2666HC15BQC01 | 32GB(8GB*4)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | THRD432G2666HC15BQC01  | 32GB(8GB*4)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | THWD432G2666HC15BQC01  | 32GB(8GB*4)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | THBD432G2666HC15BQC01  | 32GB(8GB*4)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● | ● |
| Teamgroup | TLRED416G2666HC15BDC01 | 16GB(8GB*2)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TLGD416G2666HC15BDC01  | 16GB(8GB*2)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDRED416G2666HC15BDC01 | 16GB(8GB*2)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDGED416G2666HC15BDC01 | 16GB(8GB*2)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | THRD416G2666HC15BDC01  | 16GB(8GB*2)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | THWD416G2666HC15BDC01  | 16GB(8GB*2)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | THBD416G2666HC15BDC01  | 16GB(8GB*2)  | DS | -        | K4A4G085WSBCPB | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TED416G2666C1901       | 16GB         | DS | Micron   | -              | 19-19-19-43 | 1.2 | ● | ● |
| Teamgroup | TED416G2666C19DC01     | 16GB(8GB*2)  | SS | Micron   | -              | 19-19-19-43 | 1.2 | ● |   |
| Teamgroup | TED416G2666C19QC01     | 16GB(4GB*4)  | SS | SK Hynix | -              | 19-19-19-43 | 1.2 | ● | ● |
| Teamgroup | TED432G2666C19DC01     | 32GB(16GB*2) | DS | Micron   | -              | 19-19-19-43 | 1.2 | ● | ● |
| Teamgroup | TED432G2666C19QC01     | 32GB(8GB*4)  | SS | SK Hynix | -              | 19-19-19-43 | 1.2 | ● |   |
| Teamgroup | TED44G2666C1901        | 4GB          | SS | SK Hynix | -              | 19-19-19-43 | 1.2 | ● | ● |
| Teamgroup | TED464G2666C19QC01     | 64GB(16GB*4) | DS | Micron   | -              | 19-19-19-43 | 1.2 | ● | ● |
| Teamgroup | TED48G2666C1901        | 8GB          | SS | Micron   | -              | 19-19-19-43 | 1.2 | ● |   |
| Teamgroup | TED48G2666C19DC01      | 8GB(4GB*2)   | SS | SK Hynix | -              | 19-19-19-43 | 1.2 | ● | ● |
| Teamgroup | TPD416G2666HC1901      | 16GB         | DS | Micron   | -              | 19-19-19-43 | 1.2 | ● | ● |
| Teamgroup | TPD416G2666HC19BK      | 16GB         | DS | Micron   | -              | 19-19-19-43 | 1.2 | ● | ● |
| Teamgroup | TPD416G2666HC19DC01    | 16GB(8GB*2)  | SS | Micron   | -              | 19-19-19-43 | 1.2 | ● |   |
| Teamgroup | TPD416G2666HC19QC01    | 16GB(4GB*4)  | SS | SK Hynix | -              | 19-19-19-43 | 1.2 | ● | ● |
| Teamgroup | TPD432G2666HC19DC01    | 32GB(16GB*2) | DS | Micron   | -              | 19-19-19-43 | 1.2 | ● | ● |
| Teamgroup | TPD432G2666HC19QC01    | 32GB(8GB*4)  | SS | Micron   | -              | 19-19-19-43 | 1.2 | ● |   |

| Teamgroup                        | TPD44G2666HC1901        | 4GB            | SS    | SK Hynix   | -              | 19-19-19-43 | 1.2     | ●                              | ●      |        |        |
|----------------------------------|-------------------------|----------------|-------|------------|----------------|-------------|---------|--------------------------------|--------|--------|--------|
| Teamgroup                        | TPD44G2666HC19BK        | 4GB            | SS    | SK Hynix   | -              | 19-19-19-43 | 1.2     | ●                              | ●      |        |        |
| Teamgroup                        | TPD464G2666HC19QC01     | 64GB(16GB*4)   | DS    | Micron     | -              | 19-19-19-43 | 1.2     | ●                              | ●      |        |        |
| Teamgroup                        | TPD48G2666HC1901        | 8GB            | SS    | Micron     | -              | 19-19-19-43 | 1.2     | ●                              |        |        |        |
| Teamgroup                        | TPD48G2666HC19BK        | 8GB            | SS    | Micron     | -              | 19-19-19-43 | 1.2     | ●                              |        |        |        |
| Teamgroup                        | TPD48G2666HC19DC01      | 8GB(4GB*2)     | SS    | SK Hynix   | -              | 19-19-19-43 | 1.2     | ●                              | ●      |        |        |
| Teamgroup                        | TPRD416G2666HC1901      | 16GB           | DS    | Micron     | -              | 19-19-19-43 | 1.2     | ●                              | ●      |        |        |
| Teamgroup                        | TPRD416G2666HC19DC01    | 16GB(8GB*2)    | SS    | Micron     | -              | 19-19-19-43 | 1.2     | ●                              |        |        |        |
| Teamgroup                        | TPRD416G2666HC19QC01    | 16GB(4GB*4)    | SS    | SK Hynix   | -              | 19-19-19-43 | 1.2     | ●                              | ●      |        |        |
| Teamgroup                        | TPRD432G2666HC19DC01    | 32GB(16GB*2)   | DS    | Micron     | -              | 19-19-19-43 | 1.2     | ●                              | ●      |        |        |
| Teamgroup                        | TPRD432G2666HC19QC01    | 32GB(8GB*4)    | SS    | Micron     | -              | 19-19-19-43 | 1.2     | ●                              |        |        |        |
| Teamgroup                        | TPRD44G2666HC1901       | 4GB            | SS    | SK Hynix   | -              | 19-19-19-43 | 1.2     | ●                              | ●      |        |        |
| Teamgroup                        | TPRD48G2666HC1901       | 8GB            | SS    | Micron     | -              | 19-19-19-43 | 1.2     | ●                              |        |        |        |
| Teamgroup                        | TPRD48G2666HC19DC01     | 8GB(4GB*2)     | SS    | SK Hynix   | -              | 19-19-19-43 | 1.2     | ●                              | ●      |        |        |
| DDR4 2400 Qualified Vendors List |                         |                |       |            |                |             |         |                                |        |        |        |
| Vendors                          | Part No.                | Size           | SS/DS | Chip Brand | Chip NO.       | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                         |                |       |            |                |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| ADATA                            | AD4U2400W4G17-B         | 4GB            | SS    | SK Hynix   | H5AN4G8NAFRTFC | 15-15-15-35 | 1.2     |                                | ●      | ●      |        |
| ADATA                            | AD4U2400W8G17-B         | 8GB            | DS    | SK Hynix   | H5AN4G8NAFRTFC | 15-15-15-35 | 1.2     |                                | ●      | ●      |        |
| ADATA                            | AX4U2400316G16-DRD(XMP) | 16GB           | DS    | -          | -              | 16-16-16-39 | 1.2     |                                | ●      | ●      |        |
| ADATA                            | AX4U2400316G16-SBF(XMP) | 16GB           | DS    | -          | -              | 16-16-16-36 | 1.2     |                                | ●      | ●      |        |
| ADATA                            | AX4U240038G16-SBF(XMP)  | 8GB            | SS    | -          | -              | 16-16-16-39 | 1.2     |                                | ●      | ●      |        |
| ADATA                            | AX4U2400W8G16-BRZ(XMP)  | 8GB            | DS    | -          | -              | 16-16-16-39 | 1.2     |                                | ●      | ●      |        |
| ADATA                            | AX4U2400W8G16-DRD(XMP)  | 8GB            | DS    | -          | -              | 16-16-16-39 | 1.2     |                                | ●      | ●      |        |
| Apacer                           | 78.B1GMS.4050B          | 16GB (4x 4GB ) | SS    | Samsung    | K4A4G085WD     | 17-17-17-39 | -       |                                | ●      |        |        |
| Apacer                           | 78.C1GMS.4010B          | 32GB (4x 8GB ) | DS    | Samsung    | K4A4G085WD     | 17-17-17-39 | -       |                                | ●      | ●      |        |
| Apacer                           | EL.08G2T.GFM            | 8GB            | SS    | Apacer     | AM6F6308MHHSB2 | 17-17-17-39 | -       |                                | ●      | ●      |        |
| Apacer                           | AU08GGB24CEYBGC         | 8GB            | SS    | Apacer     | AM6F6308MHHSB2 | 17-17-17-39 | 1.2     |                                | ●      | ●      |        |



|                |                                     |                      |    |        |       |             |     |   |   |
|----------------|-------------------------------------|----------------------|----|--------|-------|-------------|-----|---|---|
| (EL.08G2T.GFM) |                                     |                      |    |        |       |             |     |   |   |
| Apacer         | AHU08GGB24CDT7G<br>(EK.08G2T.KEC)   | 8GB                  | DS | Apacer | -     | 16-16-16-36 | 1.2 | • | • |
| Apacer         | AHU08GGB24CDU7G<br>(EK.08G2T.GEC)   | 8GB                  | SS | Apacer | -     | 16-16-16-36 | 1.2 | • | • |
| Apacer         | AHU08GGB24CDU6H<br>(EK.16GAT.GEAK2) | 16GB (2x 8GB )       | SS | Apacer | -     | 16-16-16-36 | 1.2 | • | • |
| Apacer         | AHU08GGB24CDU5H<br>(EK.16GAT.GEBK2) | 16GB (2x 8GB )       | SS | Apacer | -     | 16-16-16-36 | 1.2 | • | • |
| CORSAIR        | CMD16GX4M4A2400C14(Ver4.23)(XMP)    | 16GB ( 4x 4GB )      | SS | -      | -     | 14-16-16-31 | 1.2 | • | • |
| CORSAIR        | CMD32GX4M4A2400C14(Ver4.23)(XMP)    | 32GB ( 4x 8GB )      | DS | -      | -     | 14-16-16-31 | 1.2 | • | • |
| CORSAIR        | CMK128GX4M8A2400C14(Ver5.30)(XMP)   | 128GB ( 8x<br>16GB ) | DS | -      | -     | 14-16-16-31 | 1.2 | • | • |
| CORSAIR        | CMK16GX4M2A2400C16(Ver3.31)(XMP)    | 16GB ( 2x 8GB )      | DS | -      | -     | 16-16-16-39 | 1.2 | • |   |
| CORSAIR        | CMK16GX4M2Z2400C16(Ver3.31)         | 16GB ( 2x 8GB )      | SS | -      | -     | 16-16-16-39 | 1.2 | • |   |
| CORSAIR        | CMK16GX4M4A2400C14(Ver4.23)(XMP)    | 16GB ( 4x 4GB )      | SS | -      | -     | 14-16-16-31 | 1.2 | • | • |
| CORSAIR        | CMK32GX4M4A2400C14(Ver4.23)(XMP)    | 32GB ( 4x 8GB )      | DS | -      | -     | 14-16-16-31 | 1.2 | • | • |
| CORSAIR        | CMK32GX4M4A2400C16(Ver3.31)(XMP)    | 32GB ( 4x 8GB )      | SS | -      | -     | 16-16-16-39 | 1.2 | • | • |
| CORSAIR        | CMK64GX4M4A2400C14(Ver3.31)(XMP)    | 64GB ( 4x<br>16GB )  | DS | -      | -     | 14-16-16-31 | 1.2 | • | • |
| CORSAIR        | CMK64GX4M4A2400C14(Ver4.31)(XMP)    | 64GB ( 4x<br>16GB )  | DS | -      | -     | 14-16-16-31 | 1.2 | • | • |
| crucial        | BLS16G4D240FSB.16FBD(XMP)           | 16GB                 | DS | -      | -     | 16-16-16-39 | 1.2 | • | • |
| crucial        | BLS4G4D240FSB.8FBD(XMP)             | 4GB                  | SS | -      | -     | 16-16-16-39 | 1.2 | • | • |
| crucial        | BLS8G4D240FSBK.8FBD(XMP)            | 8GB                  | SS | -      | -     | 16-16-16-39 | 1.2 | • | • |
| crucial        | CT16G4DFD824A.16FB1                 | 16GB                 | DS | Micron | D9TBH | 17-17-17-39 | 1.2 | • | • |
| crucial        | CT16G4DFD824A.C16FDR1               | 16GB                 | DS | Micron | C9BGV | 17-17-17-39 | 1.2 | • | • |
| G.SKILL        | F4-2400C14Q2-128GRK(XMP)            | 128GB ( 8x           | DS | -      | -     | 14-14-14-34 | 1.2 | • | • |

|         |                          |                   |    |   |   |             |     |   |     |
|---------|--------------------------|-------------------|----|---|---|-------------|-----|---|-----|
| 16GB )  |                          |                   |    |   |   |             |     |   |     |
| G.SKILL | F4-2400C15Q-16GRR(XMP)   | 16GB ( 4x 4GB )   | SS | - | - | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-16GVR        | 16GB ( 4x 4GB )   | SS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-16GVB        | 16GB ( 4x 4GB )   | SS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-16GVG        | 16GB ( 4x 4GB )   | SS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-16GVK        | 16GB ( 4x 4GB )   | SS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-16GVS        | 16GB ( 4x 4GB )   | SS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-16GRK        | 16GB ( 4x 4GB )   | SS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-16GRB        | 16GB ( 4x 4GB )   | SS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q2-128GRK(XMP) | 128GB ( 8x 16GB ) | DS | - | - | 15-15-15-35 | 1.2 | ● | ● ● |
| G.SKILL | F4-2400C15Q2-128GVK(XMP) | 128GB ( 8x 16GB ) | DS | - | - | 15-15-15-35 | 1.2 | ● | ● ● |
| G.SKILL | F4-2400C15Q2-128GVR      | 128GB ( 8x 16GB ) | DS |   |   | 15-15-15-35 | 1.2 | ● | ● ● |
| G.SKILL | F4-2400C15Q2-64GRK(XMP)  | 64GB ( 8x 8GB )   | DS | - | - | 15-15-15-35 | 1.2 | ● | ● ● |
| G.SKILL | F4-2400C15Q-32GRR(XMP)   | 32GB ( 4x 8GB )   | DS | - | - | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-32GVR        | 32GB ( 4x 8GB )   | DS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-32GVB        | 32GB ( 4x 8GB )   | DS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-32GVG        | 32GB ( 4x 8GB )   | DS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-32GVK        | 32GB ( 4x 8GB )   | DS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-32GVS        | 32GB ( 4x 8GB )   | DS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-32GRK        | 32GB ( 4x 8GB )   | DS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| G.SKILL | F4-2400C15Q-32GRB        | 32GB ( 4x 8GB )   | DS |   |   | 15-15-15-35 | 1.2 | ● | ●   |
| GeIL    | GFR416GB2400C16S(XMP)    | 16GB              | SS | - | - | 16-16-16-36 | 1.2 | ● |     |
| GeIL    | GFR432GB2400C16D(XMP)    | 16GB              | SS | - | - | 16-16-16-36 | 1.2 | ● | ●   |
| GeIL    | GLR464GB2400C14QC(XMP)   | 64GB ( 4x 16GB )  | DS | - | - | 14-14-14-35 | 1.2 | ● | ●   |

|          |                        |                     |    |         |                 |             |      |   |   |
|----------|------------------------|---------------------|----|---------|-----------------|-------------|------|---|---|
| GelL     | GPR416GB2400C15QC(XMP) | 16GB ( 4x 4GB )     | SS | -       | -               | 15-15-15-35 | 1.2  | • | • |
| GelL     | GPR432GB2400C15QC(XMP) | 32GB ( 4x 8GB )     | DS | -       | -               | 15-15-15-35 | 1.2  | • | • |
| GelL     | GPR432GB2400C16QC(XMP) | 32GB ( 4x 8GB )     | SS | -       | -               | 16-16-16-36 | 1.2  | • | • |
| Hyper X  | HX424C12PB2K4/16       | 16GB ( 4x 4GB )     | SS | -       | -               | 12-13-13-35 | 1.2  | • | • |
| Hyper X  | HX424C12SB2/4(XMP)     | 4GB                 | SS | -       | -               | 12-14-14-35 | 1.35 | • | • |
| Hyper X  | HX424C12SB2/8(XMP)     | 8GB                 | DS | -       | -               | 12-14-14-35 | 1.35 | • | • |
| Hyper X  | HX424C12SB2K2/16(XMP)  | 16GB ( 2x 8GB )     | DS | -       | -               | 12-14-14-35 | 1.35 | • |   |
| Hyper X  | HX424C12SB2K2/16(XMP)  | 16GB ( 2x 8GB )     | DS | Nanya   | NT5AD512M8B1-GN | 12-14-14-35 | 1.35 | • |   |
| Hyper X  | HX424C12SB2K4/16(XMP)  | 16GB ( 4x 4GB )     | SS | -       | -               | 12-14-14-35 | 1.35 | • | • |
| Hyper X  | HX424C12SB2K4/32(XMP)  | 32GB ( 4x 8GB )     | DS | -       | -               | 12-14-14-35 | 1.35 | • | • |
| Hyper X  | HX424C12SB2K4/32(XMP)  | 32GB ( 4x 8GB )     | DS | Nanya   | NT5AD512M8B1-GN | 12-14-14-35 | 1.35 | • | • |
| Hyper X  | HX424C15B2K4/32(XMP)   | 32GB ( 4x 8GB )     | SS | -       | -               | 15-15-15-35 | 1.2  | • | • |
| Hyper X  | HX424C15FB/4           | 4GB                 | SS | -       | -               | 15-15-5-35  | 1.2  | • | • |
| Hyper X  | HX424C15FB/8(XMP)      | 8GB                 | SS | -       | -               | 15-15-15-35 | 1.2  | • | • |
| Hyper X  | HX424C15FB/8(XMP)      | 8GB                 | DS | -       | -               | 15-15-15-35 | 1.2  | • |   |
| Hyper X  | HX424C15FBK2/16        | 32GB ( 2x<br>16GB ) | DS | -       | -               | 15-15-15-35 | 1.2  | • |   |
| Hyper X  | HX424C15FBK2/8         | 8GB ( 2x 4GB )      | SS | -       | -               | 15-15-5-35  | 1.2  | • |   |
| Hyper X  | HX424C15FBK4/16        | 16GB ( 4x 4GB )     | SS | -       | -               | 15-15-5-35  | 1.2  | • | • |
| Hyper X  | HX424C15FBK4/16        | 16GB ( 4x4GB )      | SS | -       | -               | 15-15-15-35 | 1.2  | • | • |
| Hyper X  | HX424C15FBK4/32        | 32GB ( 4x 8GB )     | DS | -       | -               | 15-15-15-35 | 1.2  | • |   |
| Hyper X  | HX424C15FBK4/64        | 64GB ( 4x<br>16GB ) | DS | -       | -               | 15-15-15-35 | 1.2  | • |   |
| J&A      | AD4U24001716-16M       | 16GB                | DS | -       | -               | 17-17-17-39 | -    | • | • |
| J&A      | JAD4U24001708-04M      | 4GB                 | SS | -       | -               | 17-17-17-39 | -    | • | • |
| J&A      | JAD4U24001708-08M      | 8GB                 | SS | -       | -               | 17-17-17-39 | -    | • | • |
| KINGMAX  | GLLF62F-DAKZIG-CLBU    | 4GB                 | SS | KINGMAX | KGDACZ-CU       | 17-17-17-39 | -    | • | • |
| Kingston | KVR24N17D8/16          | 16GB                | DS | Micron  | D9SRJ           | 17-17-17-39 | 1.2  | • | • |

|          |                              |      |    |        |       |             |     |   |   |
|----------|------------------------------|------|----|--------|-------|-------------|-----|---|---|
| Kingston | KVR24N17D8/8                 | 8GB  | DS | Micron | D9TGG | 17-17-17-39 | 1.2 | • | • |
| Kingston | KVR24N17S8/4                 | 4GB  | SS | Micron | D9TGG | 17-17-17-39 | 1.2 | • | • |
| Kingston | KVR24N17S8/8                 | 8GB  | SS | Micron | D9TBH | 17-17-17-39 | 1.2 | • | • |
| Kingston | KVR24N17S8/8                 | 8GB  | SS | -      | -     | 17-17-17-39 | 1.2 | • | • |
| Klevv    | IM44GU48N24-FFFHAB(XMP)      | 4GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4B4GX1N-2133-15-15-15-35-0 | 4GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4B4GX2N-2133-15-15-15-35-0 | 4GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4B4GX4N-2133-15-15-15-35-0 | 4GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | IM44GU48N24-FFFHAZ(XMP)      | 4GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4Z4GX1N-2400-15-15-15-35-1 | 4GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4Z4GX2N-2400-15-15-15-35-1 | 4GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4Z4GX4N-2400-15-15-15-35-1 | 4GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | IM48GU88N24-FFFHMB(XMP)      | 8GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4B8GX1N-2400-15-15-15-35-0 | 8GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4B8GX2N-2400-15-15-15-35-0 | 8GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4B8GX4N-2400-15-15-15-35-0 | 8GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | IM48GU88N24-FFFHMZ(XMP)      | 8GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4Z8GX1N-2400-15-15-15-35-1 | 8GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4Z8GX2N-2400-15-15-15-35-1 | 8GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4Z8GX4N-2400-15-15-15-35-1 | 8GB  | SS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | IM4AGU88N24-FFFHMB(XMP)      | 16GB | DS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4B16X1N-2133-15-15-15-35-0 | 16GB | DS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4B16X2N-2133-15-15-15-35-0 | 16GB | DS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4B16X2N-2133-15-15-15-35-0 | 16GB | DS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | IM4AGU88N24-FFFHMZ(XMP)      | 16GB | DS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4Z16X1N-2400-15-15-15-35-0 | 16GB | DS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4Z16X2N-2400-15-15-15-35-0 | 16GB | DS | -      | -     | 15-15-15-35 | 1.2 | • | • |
| Klevv    | KM4Z16X4N-2400-15-15-15-35-0 | 16GB | DS | -      | -     | 15-15-15-35 | 1.2 | • | • |

|           |                       |                 |    |           |                |             |     |   |   |
|-----------|-----------------------|-----------------|----|-----------|----------------|-------------|-----|---|---|
| Micron    | MTA16ATF2G64AZ-2G3B1  | 16GB            | DS | Micron    | D9TBH          | 17-17-17-39 | 1.2 | • | • |
| panram    | W4U2400PS-8G          | 8GB             | SS | panram    | DTCCH912G2     | 14-14-14-31 | -   | • | • |
| PATRIOT   | PSD416G24002          | 16GB            | DS | Samsung   | K4A8G085WB     | 17-17-17-39 | 1.2 | • | • |
| PATRIOT   | PSD44G240081          | 4GB             | SS | Samsung   | K4A4G085WE     | 16-16-16-39 | 1.2 | • | • |
| PATRIOT   | PSD44G240081          | 4GB             | SS | PATRIOT   | PM5128D4BU-083 | 16-16-16-39 | 1.2 | • |   |
| PATRIOT   | PSD48G240081          | 8GB             | SS | Samsung   | K4A8G085WB     | 17-17-17-39 | 1.2 | • | • |
| PATRIOT   | PVE416G240C5KRD(XMP)  | 16GB ( 2x 8GB ) | SS | -         | -              | 15-15-15-35 | -   | • | • |
| SK Hynix  | HMA81GU6AFR8N-UH      | 8GB             | SS | SK Hynix  | H5AN8GBNAFRUHC | 17-17-17-39 | -   | • | • |
| SK Hynix  | HMA82GU6AFR8N-UH      | 16GB            | DS | SK Hynix  | H5AN8GBNAFRUHC | 17-17-17-39 | -   | • | • |
| Teamgroup | TCD44G2400C14BK(XMP)  | 4GB             | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TLRED416G2400HC14QC01 | 16GB(4GB*4)     | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TLGD416G2400HC14QC01  | 16GB(4GB*4)     | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TDRED416G2400HC14QC01 | 16GB(4GB*4)     | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TDGED416G2400HC14QC01 | 16GB(4GB*4)     | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TLRED48G2400HC14DC01  | 8GB(4GB*2)      | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TLGD48G2400HC14DC01   | 8GB(4GB*2)      | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TDRED48G2400HC14DC01  | 8GB(4GB*2)      | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TDGED48G2400HC14DC01  | 8GB(4GB*2)      | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TLRED44G2400HC1401    | 4GB             | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TLGD44G2400HC1401     | 4GB             | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TDRED44G2400HC1401    | 4GB             | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TDGED44G2400HC1401    | 4GB             | SS | SK Hynix  | H5AN4GBNAFRTFC | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TCD48G2400C14BK(XMP)  | 8GB             | DS | Teamgroup | T4D1024BMT-24  | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TLRED432G2400HC14QC01 | 32GB(8GB*4)     | DS | Teamgroup | T4D1024BMT-24  | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TLGD432G2400HC14QC01  | 32GB(8GB*4)     | DS | Teamgroup | T4D1024BMT-24  | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TDRED432G2400HC14QC01 | 32GB(8GB*4)     | DS | Teamgroup | T4D1024BMT-24  | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TDGED432G2400HC14QC01 | 32GB(8GB*4)     | DS | Teamgroup | T4D1024BMT-24  | 14-16-16-31 | 1.2 | • |   |
| Teamgroup | TLRED416G2400HC14DC01 | 16GB(8GB*2)     | DS | Teamgroup | T4D1024BMT-24  | 14-16-16-31 | 1.2 | • |   |

|           |                       |              |    |           |               |             |     |   |   |
|-----------|-----------------------|--------------|----|-----------|---------------|-------------|-----|---|---|
| Teamgroup | TLGD416G2400HC14DC01  | 16GB(8GB*2)  | DS | Teamgroup | T4D1024BMT-24 | 14-16-16-31 | 1.2 | ● |   |
| Teamgroup | TDRED416G2400HC14DC01 | 16GB(8GB*2)  | DS | Teamgroup | T4D1024BMT-24 | 14-16-16-31 | 1.2 | ● |   |
| Teamgroup | TDGED416G2400HC14DC01 | 16GB(8GB*2)  | DS | Teamgroup | T4D1024BMT-24 | 14-16-16-31 | 1.2 | ● |   |
| Teamgroup | TLRED48G2400HC1401    | 8GB          | DS | Teamgroup | T4D1024BMT-24 | 14-16-16-31 | 1.2 | ● |   |
| Teamgroup | TLGD48G2400HC1401     | 8GB          | DS | Teamgroup | T4D1024BMT-24 | 14-16-16-31 | 1.2 | ● |   |
| Teamgroup | TDRED48G2400HC1401    | 8GB          | DS | Teamgroup | T4D1024BMT-24 | 14-16-16-31 | 1.2 | ● |   |
| Teamgroup | TDGED48G2400HC1401    | 8GB          | DS | Teamgroup | T4D1024BMT-24 | 14-16-16-31 | 1.2 | ● |   |
| Teamgroup | TED416G2400C16BK      | 16GB         | DS | Teamgroup | T4D10248MT-24 | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TED464G2400C16QC01    | 64GB(16GB*4) | DS | Teamgroup | T4D10248MT-24 | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPRD464G2400HC16QC01  | 64GB(16GB*4) | DS | Teamgroup | T4D10248MT-24 | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPD464G2400HC16QC01   | 64GB(16GB*4) | DS | Teamgroup | T4D10248MT-24 | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TED432G2400C16DC01    | 32GB(16GB*2) | DS | Teamgroup | T4D10248MT-24 | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPRD432G2400HC16DC01  | 32GB(16GB*2) | DS | Teamgroup | T4D10248MT-24 | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPD432G2400HC16DC01   | 32GB(16GB*2) | DS | Teamgroup | T4D10248MT-24 | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TED416G2400C1601      | 16GB         | DS | Teamgroup | T4D10248MT-24 | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPRD416G2400HC1601    | 16GB         | DS | Teamgroup | T4D10248MT-24 | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPD416G2400HC1601     | 16GB         | DS | Teamgroup | T4D10248MT-24 | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TED48G2400C16BK       | 8GB          | DS | Teamgroup | T4D5128HT-24  | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TED432G2400C16QC01    | 32GB(8GB*4)  | DS | Teamgroup | T4D5128HT-24  | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPRD432G2400HC16QC01  | 32GB(8GB*4)  | DS | Teamgroup | T4D5128HT-24  | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPD432G2400HC16QC01   | 32GB(8GB*4)  | DS | Teamgroup | T4D5128HT-24  | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TED416G2400C16DC01    | 16GB(8GB*2)  | DS | Teamgroup | T4D5128HT-24  | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPRD416G2400HC16DC01  | 16GB(8GB*2)  | DS | Teamgroup | T4D5128HT-24  | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPD416G2400HC16DC01   | 16GB(8GB*2)  | DS | Teamgroup | T4D5128HT-24  | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TED48G2400C1601       | 8GB          | DS | Teamgroup | T4D5128HT-24  | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPRD48G2400HC1601     | 8GB          | DS | Teamgroup | T4D5128HT-24  | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TPD48G2400HC1601      | 8GB          | DS | Teamgroup | T4D5128HT-24  | 16-16-16-39 | 1.2 | ● | ● |
| Teamgroup | TFRD44G2400C15ABK     | 4GB          | SS | Teamgroup | T4D5128HT-24  | 15-15-15-35 | 1.2 | ● | ● |

|           |                         |              |    |           |               |             |     |   |   |
|-----------|-------------------------|--------------|----|-----------|---------------|-------------|-----|---|---|
| Teamgroup | TDTRD416G2400HC15AQC01  | 16GB(4GB*4)  | SS | Teamgroup | T4D5128HT-24  | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTWD416G2400HC15AQC01  | 16GB(4GB*4)  | SS | Teamgroup | T4D5128HT-24  | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTBD416G2400HC15AQC01  | 16GB(4GB*4)  | SS | Teamgroup | T4D5128HT-24  | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTRD48G2400HC15ADC01   | 8GB(4GB*2)   | SS | Teamgroup | T4D5128HT-24  | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTWD48G2400HC15ADC01   | 8GB(4GB*2)   | SS | Teamgroup | T4D5128HT-24  | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTBD48G2400HC15ADC01   | 8GB(4GB*2)   | SS | Teamgroup | T4D5128HT-24  | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTRD44G2400HC15A01     | 4GB          | SS | Teamgroup | T4D5128HT-24  | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTWD44G2400HC15A01     | 4GB          | SS | Teamgroup | T4D5128HT-24  | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTBD44G2400HC15A01     | 4GB          | SS | Teamgroup | T4D5128HT-24  | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TFRD48G2400C15ABK       | 8GB          | SS | Teamgroup | T4D10248HT-24 | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTRD432G2400HC15AQC01  | 32GB(8GB*4)  | SS | Teamgroup | T4D10248HT-24 | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTWD432G2400HC15AQC01  | 32GB(8GB*4)  | SS | Teamgroup | T4D10248HT-24 | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTBD432G2400HC15AQC01  | 32GB(8GB*4)  | SS | Teamgroup | T4D10248HT-24 | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTRD416G2400HC15ADC01  | 16GB(8GB*2)  | SS | Teamgroup | T4D10248HT-24 | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTWD416G2400HC15ADC01  | 16GB(8GB*2)  | SS | Teamgroup | T4D10248HT-24 | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTBD416G2400HC15ADC01  | 16GB(8GB*2)  | SS | Teamgroup | T4D10248HT-24 | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTRD48G2400HC15A01     | 8GB          | SS | Teamgroup | T4D10248HT-24 | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTWD48G2400HC15A01     | 8GB          | SS | Teamgroup | T4D10248HT-24 | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TDTBD48G2400HC15A01     | 8GB          | SS | Teamgroup | T4D10248HT-24 | 15-15-15-35 | 1.2 | ● | ● |
| Teamgroup | TFWD416G2400C15BBK(XMP) | 16GB         | DS | Teamgroup | PP020-093E    | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDTRD464G2400HC15BQC01  | 64GB(16GB*4) | DS | Teamgroup | PP020-093E    | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDTWD464G2400HC15BQC01  | 64GB(16GB*4) | DS | Teamgroup | PP020-093E    | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDTBD464G2400HC15BQC01  | 64GB(16GB*4) | DS | Teamgroup | PP020-093E    | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDTRD432G2400HC15BDC01  | 32GB(16GB*2) | DS | Teamgroup | PP020-093E    | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDTWD432G2400HC15BDC01  | 32GB(16GB*2) | DS | Teamgroup | PP020-093E    | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDTBD432G2400HC15BDC01  | 32GB(16GB*2) | DS | Teamgroup | PP020-093E    | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDTRD416G2400HC15B01    | 16GB         | DS | Teamgroup | PP020-093E    | 15-17-17-35 | 1.2 | ● |   |
| Teamgroup | TDTWD416G2400HC15B01    | 16GB         | DS | Teamgroup | PP020-093E    | 15-17-17-35 | 1.2 | ● |   |

| Teamgroup                        | TDTBD416G2400HC15B01              | 16GB                | DS    | Teamgroup  | PP020-093E     | 15-17-17-35 | 1.2     | ●                              |        |        |        |
|----------------------------------|-----------------------------------|---------------------|-------|------------|----------------|-------------|---------|--------------------------------|--------|--------|--------|
| V-color                          | TC48G24S817-IMS                   | 8GB                 | SS    | -          | -              | 17-17-17-39 | 1.2     | ● ●                            |        |        |        |
| V-color                          | TD4G8C17-UH                       | 4GB                 | SS    | V-color    | DW3J0460HM     | 15-15-15-36 | 1.2     | ● ●                            |        |        |        |
| V-color                          | TD8G16C17-UH                      | 8GB                 | DS    | V-color    | A4G8H-24CS     | 17-17-17-39 | 1.2     | ● ●                            |        |        |        |
| DDR4 2133 Qualified Vendors List |                                   |                     |       |            |                |             |         |                                |        |        |        |
| Vendors                          | Part No.                          | Size                | SS/DS | Chip Brand | Chip NO.       | Timing      | Voltage | DIMM socket support (Optional) |        |        |        |
|                                  |                                   |                     |       |            |                |             |         | 1 DIMM                         | 2 DIMM | 4 DIMM | 8 DIMM |
| Apacer                           | 78.B1GM3.AF00B                    | 16GB (4x 4GB )      | SS    | SK Hynix   | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2     | ● ●                            |        |        |        |
| Apacer                           | 78.C1GM3.AF10B                    | 32GB (4x 8GB )      | DS    | SK Hynix   | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2     | ● ●                            |        |        |        |
| Apacer                           | AHU08GGB13CGT7G<br>(EK.08G2R.KDC) | 8GB                 | DS    | Apacer     | -              | 15-15-15-36 | 1.2     | ●                              |        |        |        |
| Apacer                           | AHU08GGB13CGU7G<br>(EK.08G2R.GDC) | 8GB                 | SS    | Apacer     | -              | 15-15-15-36 | 1.2     | ●                              |        |        |        |
| Apacer                           | AU08GGB13CDYBGC<br>(EL.08G2R.GDM) | 8GB                 |       | Apacer     | -              | 15-15-15-36 | 1.2     | ●                              |        |        |        |
| CENTURY<br>MICRO INC             | CD8G-D4U2133                      | 8GB                 | DS    | SK Hynix   | H5AN4G8NMFRTFC | 15-15-15-36 | -       | ● ●                            |        |        |        |
| CENTURY<br>MICRO INC             | CK8GX4-D4U2133                    | 32GB ( 4x 8GB )     | DS    | SK hynix   | H5AN4G8NMFRTFC | 15-15-15-35 | 1.2     | ● ●                            |        |        |        |
| CORSAIR                          | CMD16GX4M4B2133C10(Ver3.20)(XMP)  | 16GB ( 4x 4GB )     | SS    | -          | -              | 10-12-12-31 | 1.35    | ● ●                            |        |        |        |
| CORSAIR                          | CMD16GX4M4B2133C10(Ver3.20)(XMP)  | 16GB ( 4x 4GB )     | SS    | -          | -              | 10-12-12-31 | 1.35    | ●                              |        |        |        |
| CORSAIR                          | CMK16GX4M4A2133C13(Ver4.23)(XMP)  | 16GB ( 4x 4GB )     | SS    | -          | -              | 13-15-15-28 | 1.2     | ● ●                            |        |        |        |
| CORSAIR                          | CMK32GX4M2A2133C13(Ver4.31)(XMP)  | 32GB ( 2x<br>16GB ) | DS    | -          | -              | 13-15-15-28 | 1.2     | ●                              |        |        |        |
| CORSAIR                          | CMK32GX4M4A2133C13(Ver4.23)(XMP)  | 32GB ( 4x 8GB )     | DS    | -          | -              | 13-15-15-28 | 1.2     | ● ●                            |        |        |        |
| CORSAIR                          | CMK32GX4M4A2133C15(Ver3.20)       | 32GB ( 4x 8GB )     | DS    | -          | -              | 15-15-15-36 | 1.2     | ● ●                            |        |        |        |
| CORSAIR                          | CMK32GX4M4A2133C15(Ver5.29)       | 32GB ( 4x 8GB )     | DS    | -          | -              | 15-15-15-36 | 1.2     | ● ●                            |        |        |        |
| CORSAIR                          | CMK64GX4M8A2133C13(Ver3.20)(XMP)  | 64GB ( 8x 8GB )     | DS    | -          | -              | 13-15-15-28 | 1.2     | ● ●                            |        |        |        |



|          |                     |                   |    |        |                 |             |     |   |   |   |
|----------|---------------------|-------------------|----|--------|-----------------|-------------|-----|---|---|---|
| CORSAIR  | CMV16GX4M1A2133C15  | 16GB              | DS | -      | -               | 15-15-15-36 | 1.2 | ● | ● |   |
| CORSAIR  | CMV16GX4M1A2133C15  | 16GB              | DS | -      | -               | 15-15-15-36 | -   | ● | ● |   |
| CORSAIR  | CMV4GX4M1A2133C15   | 4GB               | SS | -      | -               | 15-15-15-36 | 1.2 | ● | ● | ● |
| CORSAIR  | CMV8GX4M1A2133C15   | 8GB               | DS | -      | -               | 15-15-15-36 | 1.2 | ● | ● |   |
| crucial  | CT16G4DFD8213.16FB1 | 16GB              | DS | Micron | D9TBH           | 15-15-15-36 | 1.2 | ● | ● | ● |
| crucial  | CT4G4DFS8213.8FA2   | 4GB               | SS | Micron | D9RGQ           | 15-15-15-36 | 1.2 | ● | ● |   |
| crucial  | CT4G4DFS8213.8FB1   | 4GB               | SS | -      | -               | 15-15-15-36 | 1.2 | ● | ● | ● |
| crucial  | CT8G4DFS8213.8FB1   | 8GB               | SS | -      | -               | 15-15-15-36 | 1.2 | ● | ● |   |
| Foxtconn | FEU4GN51208JC2133F  | 4GB               | SS | Nanya  | NT5AD512M8B1-FM | 15-15-15-36 | -   | ● | ● |   |
| G.SKILL  | F4-2133C15Q-16GRR   | 16GB ( 4x 4GB )   | SS | -      | -               | 15-15-15-35 | 1.2 | ● | ● |   |
| G.SKILL  | F4-2133C15Q-16GVR   | 16GB ( 4x 4GB )   | SS |        |                 | 15-15-15-35 | 1.2 | ● | ● |   |
| G.SKILL  | F4-2133C15Q-16GVB   | 16GB ( 4x 4GB )   | SS |        |                 | 15-15-15-35 | 1.2 | ● | ● |   |
| G.SKILL  | F4-2133C15Q-16GVG   | 16GB ( 4x 4GB )   | SS |        |                 | 15-15-15-35 | 1.2 | ● | ● |   |
| G.SKILL  | F4-2133C15Q-16GVK   | 16GB ( 4x 4GB )   | SS |        |                 | 15-15-15-35 | 1.2 | ● | ● |   |
| G.SKILL  | F4-2133C15Q-16GVS   | 16GB ( 4x 4GB )   | SS |        |                 | 15-15-15-35 | 1.2 | ● | ● |   |
| G.SKILL  | F4-2133C15Q-16GRK   | 16GB ( 4x 4GB )   | SS |        |                 | 15-15-15-35 | 1.2 | ● | ● |   |
| G.SKILL  | F4-2133C15Q-16GRB   | 16GB ( 4x 4GB )   | SS |        |                 | 15-15-15-35 | 1.2 | ● | ● |   |
| G.SKILL  | F4-2133C15Q2-128GVK | 128GB ( 8x 16GB ) | DS | -      | -               | 15-15-15-35 | 1.2 | ● | ● |   |
| G.SKILL  | F4-2133C15Q2-128GVR | 128GB ( 8x 16GB ) | DS | -      | -               | 15-15-15-35 | 1.2 | ● | ● |   |
| G.SKILL  | F4-2133C15Q2-64GRR  | 64GB ( 8x 8GB )   | DS | -      | -               | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL  | F4-2133C15Q2-64GRB  | 64GB ( 8x 8GB )   | DS |        |                 | 15-15-15-35 | 1.2 | ● | ● | ● |
| G.SKILL  | F4-2133C15Q-32GRR   | 32GB ( 4x 8GB )   | DS | -      | -               | 15-15-15-35 | -   | ● |   |   |
| G.SKILL  | F4-2133C15Q-32GVR   | 32GB ( 4x 8GB )   | DS |        |                 | 15-15-15-35 | 1.2 | ● |   |   |
| G.SKILL  | F4-2133C15Q-32GVB   | 32GB ( 4x 8GB )   | DS |        |                 | 15-15-15-35 | 1.2 | ● |   |   |
| G.SKILL  | F4-2133C15Q-32GVG   | 32GB ( 4x 8GB )   | DS |        |                 | 15-15-15-35 | 1.2 | ● |   |   |
| G.SKILL  | F4-2133C15Q-32GVK   | 32GB ( 4x 8GB )   | DS |        |                 | 15-15-15-35 | 1.2 | ● |   |   |

|          |                         |                  |    |          |                |             |     |   |     |
|----------|-------------------------|------------------|----|----------|----------------|-------------|-----|---|-----|
| G.SKILL  | F4-2133C15Q-32GVS       | 32GB ( 4x 8GB )  | DS |          |                | 15-15-15-35 | 1.2 | ● |     |
| G.SKILL  | F4-2133C15Q-32GRK       | 32GB ( 4x 8GB )  | DS |          |                | 15-15-15-35 | 1.2 | ● |     |
| G.SKILL  | F4-2133C15Q-32GRB       | 32GB ( 4x 8GB )  | DS |          |                | 15-15-15-35 | 1.2 | ● |     |
| GelL     | GPR416GB2133C15QC       | 16GB ( 4x 4GB )  | SS | -        | -              | 15-15-15-36 | 1.2 | ● |     |
| GelL     | GPR432GB2133C15QC       | 32GB ( 4x 8GB )  | SS | -        | -              | 15-15-15-36 | 1.2 | ● |     |
| Hyper X  | HX421C13SB/4(XMP)       | 4GB              | SS | -        | -              | 13-13-13-36 | 1.2 | ● | ●   |
| Hyper X  | HX421C13SB/8(XMP)       | 8GB              | DS | -        | -              | 13-13-13-36 | 1.2 | ● | ●   |
| Hyper X  | HX421C13SBK2/16(XMP)    | 16GB ( 2x 8GB )  | DS | -        | -              | 13-13-13-36 | 1.2 | ● |     |
| Hyper X  | HX421C13SBK2/8(XMP)     | 8GB ( 2x 4GB )   | SS | -        | -              | 13-13-13-36 | 1.2 | ● |     |
| Hyper X  | HX421C13SBK4/16(XMP)    | 16GB ( 4x 4GB )  | SS | -        | -              | 13-13-13-36 | 1.2 | ● | ●   |
| Hyper X  | HX421C13SBK4/32(XMP)    | 32GB ( 4x 8GB )  | DS | -        | -              | 13-13-13-36 | 1.2 | ● | ●   |
| Hyper X  | HX421C14FB/4            | 4GB              | SS | -        | -              | 14-14-14-35 | 1.2 | ● | ●   |
| Hyper X  | HX421C14FB/8            | 8GB              | DS | -        | -              | 14-14-14-35 | 1.2 | ● | ●   |
| Hyper X  | HX421C14FB2K4/32(XMP)   | 32GB ( 4x 8GB )  | SS | -        | -              | 14-14-14-35 | 1.2 | ● | ●   |
| Hyper X  | HX421C14FBK2/16         | 16GB ( 2x 8GB )  | DS | -        | -              | 14-14-14-35 | 1.2 | ● |     |
| Hyper X  | HX421C14FBK2/8          | 8GB ( 2x 4GB )   | SS | -        | -              | 14-14-14-35 | 1.2 | ● |     |
| Hyper X  | HX421C14FBK4/16         | 16GB ( 4x 4GB )  | SS | -        | -              | 14-14-14-35 | 1.2 | ● | ●   |
| Hyper X  | HX421C14FBK4/32         | 32GB ( 4x 8GB )  | DS | -        | -              | 14-14-14-35 | 1.2 | ● | ●   |
| Hyper X  | HX421C14FBK4/64         | 64GB ( 4x 16GB ) | DS | -        | -              | 15-15-15-35 | 1.2 | ● | ●   |
| Hyper X  | HX421C14FBK8/64         | 64GB ( 8x 8GB )  | DS | -        | -              | 14-14-14-35 | 1.2 | ● | ●   |
| Kingston | KVR21N15D8/16           | 16GB             | DS | Micron   | D9TBH          | 15-15-15-36 | 1.2 | ● | ● ● |
| Kingston | KVR21N15D8/8            | 8GB              | DS | SK Hynix | H5AN4G8NAFR    | 15-15-15-36 | 1.2 | ● | ●   |
| Kingston | KVR21N15D8/8            | 8GB              | DS | SK hynix | H5AN4G8NMFRTFC | 15-15-15-37 | 1.2 | ● | ●   |
| Kingston | KVR21N15S8/4            | 4GB              | SS | SK Hynix | H5AN4G8NAFR    | 15-15-15-36 | 1.2 | ● | ●   |
| Kingston | KVR21N15S8/4            | 4GB              | SS | SK Hynix | H5AN4G8NAFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Kingston | KVR21N15S8/4            | 4GB              | SS | SK Hynix | H5AN4G8NMFRTFC | 15-15-15-37 | 1.2 | ● | ●   |
| Klevv    | IM44GU48N21-FFFHAB(XMP) | 4GB              | SS | -        | -              | 15-15-15-35 | 1.2 | ● | ●   |

|               |                              |                 |    |           |                |             |     |   |   |
|---------------|------------------------------|-----------------|----|-----------|----------------|-------------|-----|---|---|
| Klevv         | KM4B4GX1N-2133-15-15-15-35-0 | 4GB             | SS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4B4GX2N-2133-15-15-15-35-0 | 4GB             | SS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4B4GX4N-2133-15-15-15-35-0 | 4GB             | SS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | IM48GU88N21-FFFHMB(XMP)      | 8GB             | SS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4B8GX1N-2133-15-15-15-35-0 | 8GB             | SS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4B8GX2N-2133-15-15-15-35-0 | 8GB             | SS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4B8GX4N-2133-15-15-15-35-0 | 8GB             | SS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | IM4AGU88N21-FFFHMB(XMP)      | 16GB            | DS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4B16X1N-2133-15-15-15-35-0 | 16GB            | DS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4B16X2N-2133-15-15-15-35-0 | 16GB            | DS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4B16X4N-2133-15-15-15-35-0 | 16GB            | DS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4C4GX4N-2133-15-15-15-35-0 | 4GB             | SS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4C4GX4N-2133-15-15-15-35-1 | 16GB ( 4x 4GB ) | SS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4C8GX4N-2133-15-15-15-35-0 | 8GB             | DS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Klevv         | KM4C8GX4N-2133-15-15-15-35-1 | 32GB ( 4x 8GB ) | DS | -         | -              | 15-15-15-35 | 1.2 | • | • |
| Micron        | MTA16ATF2G64AZ-2G1B1         | 16GB            | DS | Micron    | D9TBH          | 15-15-15-36 | 1.2 | • | • |
| Micron        | MTA8ATF1G64AZ-2G1B1          | 8GB             | SS | -         | -              | 15-15-15-36 | 1.2 | • | • |
| panram        | W4U2133PS-8G                 | 8GB             | SS | panram    | DTCCH872HA2    | 16-16-16-36 | -   | • | • |
| SanMax        | SMD-4G28HP-21P               | 4GB             | SS | SK Hynix  | H5AN4G8NMFRTFC | 15-15-15-37 | -   | • | • |
| SanMax        | SMD-8G28HP-21P               | 8GB             | DS | SK Hynix  | H5AN4G8NMFRTFC | 15-15-15-37 | -   | • | • |
| Silicon Power | SP004GBLFU213N01             | 4GB             | SS | Samsung   | K4A4G085WD     | 15-15-15-37 | -   | • | • |
| Silicon Power | SP008GBLFU213N01             | 8GB             | DS | Samsung   | K4A4G085WD     | 15-15-15-37 | -   | • | • |
| SK Hynix      | HMA41GU7AFR8N-TF             | 8GB             | DS | SK Hynix  | H5AN4G8NAFRTFC | 15-15-15-36 | -   | • | • |
| SK Hynix      | HMA451U7AFR8N-TF             | 4GB             | SS | SK Hynix  | H5AN4G8NAFR    | 15-15-15-36 | -   | • | • |
| SK Hynix      | HMA82GU6MFR8N-TF             | 16GB            | DS | SK Hynix  | H5AN8G8NMFRTFC | 15-15-15-36 | -   | • | • |
| SK Hynix      | HMA82GU7MFR8N-TF             | 16GB            | DS | SK Hynix  | H5AN8G8NMFR    | 15-15-15-36 | -   | • | • |
| SUPER TALENT  | FBU2B008GM                   | 8GB             | DS | Micron    | D9RGQ          | 15-15-15-36 | 1.2 | • | • |
| Teamgroup     | TED416G2133C15BK             | 16GB            | DS | Teamgroup | T4D10248MT-24  | 15-15-15-36 | 1.2 | • | • |

|           |                        |              |    |           |                |             |     |   |     |
|-----------|------------------------|--------------|----|-----------|----------------|-------------|-----|---|-----|
| Teamgroup | TED464G2133C15QC01     | 64GB(16GB*4) | DS | Teamgroup | T4D10248MT-24  | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPRD464G2133HC15QC01   | 64GB(16GB*4) | DS | Teamgroup | T4D10248MT-24  | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPD464G2133HC15QC01    | 64GB(16GB*4) | DS | Teamgroup | T4D10248MT-24  | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TED432G2133C15DC01     | 32GB(16GB*2) | DS | Teamgroup | T4D10248MT-24  | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPRD432G2133HC15DC01   | 32GB(16GB*2) | DS | Teamgroup | T4D10248MT-24  | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPD432G2133HC15DC01    | 32GB(16GB*2) | DS | Teamgroup | T4D10248MT-24  | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TED416G2133C1501       | 16GB         | DS | Teamgroup | T4D10248MT-24  | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPRD416G2133HC1501     | 16GB         | DS | Teamgroup | T4D10248MT-24  | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPD416G2133HC1501      | 16GB         | DS | Teamgroup | T4D10248MT-24  | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TED44GM2133C15ABK      | 4GB          | SS | SK Hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TED48GM2133C15BK       | 8GB          | DS | SK hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TED432G2133C15QC01     | 32GB(8GB*4)  | DS | SK hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPRD432G2133HC15QC01   | 32GB(8GB*4)  | DS | SK hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPD432G2133HC15QC01    | 32GB(8GB*4)  | DS | SK hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TED416G2133C15DC01     | 16GB(8GB*2)  | DS | SK hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPRD416G2133HC15DC01   | 16GB(8GB*2)  | DS | SK hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPD416G2133HC15DC01    | 16GB(8GB*2)  | DS | SK hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TED48G2133C1501        | 8GB          | DS | SK hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPRD48G2133HC1501      | 8GB          | DS | SK hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| Teamgroup | TPD48G2133HC1501       | 8GB          | DS | SK hynix  | H5AN4G8NMFRTFC | 15-15-15-36 | 1.2 | ● | ●   |
| UMAX      | 84G44G93MC-21OMCALGF15 | 4GB          | SS | Micron    | D9RGQ          | 15-15-15-36 | -   | ● | ● ● |
| UMAX      | 84G48G93MC-21OMCGNGF15 | 8GB          | DS | Micron    | D9RGQ          | 15-15-15-36 | -   | ● | ●   |
| V-color   | TC48G21S815-IMS        | 8GB          | SS | -         | -              | 15-15-15-36 | 1.2 | ● | ●   |