

**Qualified Vendors List (QVL), Model Name: Z390 AORUS MASTER**

| DDR4 4333MHz      |         |                           |                                |       |            |           |             |         |                       |   |   |     |        |
|-------------------|---------|---------------------------|--------------------------------|-------|------------|-----------|-------------|---------|-----------------------|---|---|-----|--------|
| Module Supplier   | Density | # of Ranks x DRAM devices | Module P/N.                    | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|                   |         |                           |                                |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| CORSAIR           | 8GB     | 1Rx8                      | CMK32GX4M4K4333C19 ver4.31     | SS    | Samsung    |           | 19-26-26-46 | 1.5v    |                       |   | v | v   | 2133   |
| DDR4 4200~4266MHz |         |                           |                                |       |            |           |             |         |                       |   |   |     |        |
| Module Supplier   | Density | # of Ranks x DRAM devices | Module P/N.                    | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|                   |         |                           |                                |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| CORSAIR           | 8GB     | 1Rx8                      | CMK64GX4M8X4200C19 ver4.31     | SS    | Samsung    |           | 19-25-25-45 | 1.45v   |                       |   | v | v   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMK32GX4M4K4266C19 ver4.31     | SS    | Samsung    |           | 19-26-26-46 | 1.45v   |                       |   | v | v   | 2133   |
| G.SKILL           | 8GB     | 1Rx8                      | F4-4266C17Q-32GTZR             | SS    | Samsung    |           | 17-18-18-38 | 1.45v   |                       |   | v | v   | 2133   |
| ADATA             | 8GB     | 1Rx8                      | AX4U426638G19-BR80             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U426638G19-SR80             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U426638G19-DR80             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U426638G19-QR80             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U426638G19-BR41             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U426638G19-SR41             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U426638G19-DR41             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U426638G19-QR41             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| DDR4 4133MHz      |         |                           |                                |       |            |           |             |         |                       |   |   |     |        |
| Module Supplier   | Density | # of Ranks x DRAM devices | Module P/N.                    | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|                   |         |                           |                                |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| CORSAIR           | 8GB     | 1Rx8                      | CMK32GX4M4E4133C19R ver4.31    | SS    | Samsung    |           | 19-25-25-45 | 1.4v    | v                     | v | v | v   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMK64GX4M8X4133C19 ver4.31     | SS    | Samsung    |           | 19-25-25-45 | 1.4v    | v                     | v | v | v   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMK32GX4M4K4133C19 ver4.31     | SS    | Samsung    |           | 19-25-25-45 | 1.4v    | v                     | v | v | v   | 2133   |
| G.SKILL           | 8GB     | 1Rx8                      | F4-4133C19Q-32GTZRF            | SS    | Samsung    |           | 19-21-21-41 | 1.4v    | v                     | v | v | v   | 2133   |
| G.SKILL           | 8GB     | 1Rx8                      | F4-4133C17Q-32GTZR             | SS    | Samsung    |           | 17-17-17-37 | 1.4v    |                       |   | v | v   | 2133   |
| HyperX            | 8GB     | 1Rx8                      | HX441C19PB3K2/16               | SS    | Samsung    |           | 19-23-23-45 | 1.35v   |                       |   | v | v   | 2400   |
| HyperX            | 8GB     | 1Rx8                      | HX441C19PB3/8                  | SS    | Samsung    |           | 19-23-23-45 | 1.35v   |                       |   | v | v   | 2400   |
| ADATA             | 8GB     | 1Rx8                      | AX4U413338G19-BR80             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U413338G19-SR80             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U413338G19-DR80             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U413338G19-QR80             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U413338G19-BR41             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U413338G19-SR41             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U413338G19-DR41             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| ADATA             | 8GB     | 1Rx8                      | AX4U413338G19-QR41             | SS    |            |           | 19-19-19-39 | 1.4v    |                       |   | v | v   | 2666   |
| DDR4 4000MHz      |         |                           |                                |       |            |           |             |         |                       |   |   |     |        |
| Module Supplier   | Density | # of Ranks x DRAM devices | Module P/N.                    | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|                   |         |                           |                                |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| CORSAIR           | 8GB     | 1Rx8                      | CMK32GX4M4B4000C19R ver 4.31   | SS    | Samsung    |           | 19-23-23-45 | 1.35v   | v                     | v | v | V   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMK16GX4M2B4000C19R ver 4.31   | SS    | Samsung    |           | 19-23-23-45 | 1.35v   | v                     | v | v | V   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMK64GX4M8B4000C19 ver 4.31    | SS    | Samsung    |           | 19-23-23-45 | 1.35v   | v                     | v | v | V   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMR16GX4M2F4000C19 ver 4.31    | SS    | Samsung    |           | 19-23-23-45 | 1.35v   | v                     | v |   | V   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMD32GX4M4E4000C19 ver 4.31    | SS    | Samsung    |           | 19-23-23-45 | 1.35v   | v                     | v | v | V   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMW32GX4M4K4000C19 ver 4.31    | SS    | Samsung    |           | 19-23-23-45 | 1.35v   | v                     | v | v | V   | 2133   |
| G.SKILL           | 8GB     | 1Rx8                      | F4-4000C18Q-32GTZ              | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | V   | 2133   |
| G.SKILL           | 8GB     | 1Rx8                      | F4-4000C18D-16GTZ              | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v |   | V   | 2133   |
| G.SKILL           | 8GB     | 1Rx8                      | F4-4000C18Q2-64GTZR            | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | V   | 2133   |
| HyperX            | 8GB     | 1Rx8                      | HX440C19PB3A/8                 | SS    | Samsung    |           | 19-21-21-42 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX            | 8GB     | 1Rx8                      | HX440C19PB3AK2/16              | SS    | Samsung    |           | 19-21-21-42 | 1.35v   | v                     | v | v | v   | 2400   |
| Team              | 8GB     | 1Rx8                      | TXD432G4000HC18EQC01           | SS    | Samsung    |           | 18-20-20-44 | 1.35v   | v                     | v | v | v   | 2400   |
| Team              | 8GB     | 1Rx8                      | TXGD432G4000HC18EQC01          | SS    | Samsung    |           | 18-20-20-44 | 1.35v   | v                     | v | v | v   | 2400   |
| Team              | 8GB     | 1Rx8                      | TXBD416G4000HC18GDC01          | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v |   | v   | 2400   |
| DDR4 3800~3866MHz |         |                           |                                |       |            |           |             |         |                       |   |   |     |        |
| Module Supplier   | Density | # of Ranks x DRAM devices | Module P/N.                    | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|                   |         |                           |                                |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| CORSAIR           | 4GB     | 1Rx8                      | CMK16GX4M4B3866C18R            | SS    | Samsung    |           | 18-22-22-40 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMD32GX4M4B3866C18 ver 4.31    | SS    | Samsung    |           | 18-22-22-40 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMK32GX4M4B3866C18R ver 4.31   | SS    | Samsung    |           | 18-22-22-40 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR           | 16GB    | 2Rx8                      | CMK128GX4M8X3800C19 ver 4.31   | DS    | Samsung    |           | 19-19-19-39 | 1.35v   | v                     | v |   | v   | 2133   |
| G.SKILL           | 8GB     | 1Rx8                      | F4-3866C18Q-32GTZ              | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL           | 8GB     | 1Rx8                      | F4-3866C18Q-32GTZR             | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| Team              | 4GB     | 1Rx8                      | TXD416G3866HC18AQC01           | SS    | Samsung    |           | 18-20-20-39 | 1.35v   | v                     | v | v | v   | 2133   |
| Team              | 4GB     | 1Rx8                      | TXGD416G3866HC18AQC01          | SS    | Samsung    |           | 18-20-20-39 | 1.35v   | v                     | v | v | v   | 2133   |
| Team              | 4GB     | 1Rx8                      | TXD48G3866HC18ADC01            | SS    | Samsung    |           | 18-20-20-39 | 1.35v   | v                     | v | v | v   | 2133   |
| Team              | 4GB     | 1Rx8                      | TXGD48G3866HC18ADC01           | SS    | Samsung    |           | 18-20-20-39 | 1.35v   | v                     | v | v | v   | 2133   |
| Team              | 8GB     | 1Rx8                      | TXKD416G3866HC18EDC01          | SS    | Samsung    |           | 18-20-20-44 | 1.35v   | v                     | v |   | v   | 2400   |
| Team              | 8GB     | 1Rx8                      | TXD416G3866HC18EDC01           | SS    | Samsung    |           | 18-20-20-44 | 1.35v   | v                     | v |   | v   | 2400   |
| Team              | 8GB     | 1Rx8                      | TXGD416G3866HC18EDC01          | SS    | Samsung    |           | 18-20-20-44 | 1.35v   | v                     | v |   | v   | 2400   |
| Team              | 8GB     | 1Rx8                      | TDPGD416G3866HC18GDC01         | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v |   | v   | 2400   |
| DDR4 3733MHz      |         |                           |                                |       |            |           |             |         |                       |   |   |     |        |
| Module Supplier   | Density | # of Ranks x DRAM devices | Module P/N.                    | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|                   |         |                           |                                |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| CORSAIR           | 8GB     | 1Rx8                      | CMK32GX4M4B3733C17R ver4.31    | SS    | Samsung    |           | 17-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR           | 8GB     | 1Rx8                      | CMD32GX4M4B3733C17 ver4.31     | SS    | Samsung    |           | 17-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL           | 8GB     | 1Rx8                      | F4-3733C18Q-32GTZKW            | SS    | Samsung    |           | 18-18-18-38 | 1.35v   | v                     | v | v | v   | 2133   |
| Apacer            | 8GB     | 1Rx8                      | AHU08GGB37CEU5H EK.16GA6.GFBK2 | SS    |            |           | 17-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |

|              |     |      |                       |    |         |  |             |       |   |   |   |   |      |
|--------------|-----|------|-----------------------|----|---------|--|-------------|-------|---|---|---|---|------|
| Team         | 8GB | 1Rx8 | TXD416G3733HC18ADC01  | SS | SKhynix |  | 18-20-20-39 | 1.35v | v | v | v | v | 2133 |
| Team         | 8GB | 1Rx8 | TXGD416G3733HC18ADC01 | SS | SKhynix |  | 18-20-20-39 | 1.35v | v | v | v | v | 2133 |
| SUPER TALENT | 8GB | 1Rx8 | F3733UA8G             | SS |         |  | 17-19-19-39 | 1.35v | v | v | v | v | 2133 |

DDR4 3600~3666MHz

| Module Supplier | Density | # of Ranks x DRAM devices | Module P/N.                 | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|-----------------|---------|---------------------------|-----------------------------|-------|------------|-----------|-------------|---------|-----------------------|---|---|-----|--------|
|                 |         |                           |                             |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| CORSAIR         | 4GB     | 1Rx8                      | CMK8GX4M2B3600C18           | SS    |            |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                      | CMD8GX4M2B3600C18           | SS    |            |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                      | CMD16GX4M4B3600C18 ver 4.24 | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMK32GX4M4B3600C18 ver4.31  | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMK32GX4M4B3600C18R ver4.31 | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                      | CMK16GX4M2B3600C18 ver4.31  | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                      | CMK16GX4M2B3600C18R ver4.31 | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMD32GX4M4B3600C16          | SS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMK32GX4M4B3600C16R         | SS    |            |           | 16-16-16-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMR32GX4M4C3600C18 ver4.31  | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMW32GX4M4C3600C18 ver4.31  | SS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                      | CMK64GX4M4B3600C18 ver 4.31 | DS    | Samsung    |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 32GB    | 2Rx8                      | CMK64GX4M2D3600C18 ver 5.49 | DS    | Hynix      |           | 18-22-22-42 | 1.35v   | v                     | v |   | v   | 2133   |
| G.SKILL         | 4GB     | 1Rx8                      | F4-3600C17Q-16GVK           | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 1Rx8                      | F4-3600C17Q-32GVK           | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 1Rx8                      | F4-3600C16D-16GVK           | SS    |            |           | 16-16-16-36 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 1Rx8                      | F4-3600C16Q-32GFX           | SS    |            |           | 16-18-18-38 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 1Rx8                      | F4-3600C19Q-32GSXW          | SS    |            |           | 19-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 1Rx8                      | F4-3600C17Q-32GTZR          | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         |         |                           | F4-3600C18D-16GTZR          | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v |   | v   | 2133   |
| G.SKILL         | 16GB    | 2Rx8                      | F4-3600C17Q-64GTZ           | DS    |            |           | 17-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| GALAX           | 8GB     | 1Rx8                      | HOF4CAL1CST3600K17LD162C    | SS    |            |           | 17-18-18-38 | 1.35    | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                      | HX436C17PB3K4/32            | SS    |            |           | 17-18-18    | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 8GB     | 1Rx8                      | HX436C17PB3K2/16            | SS    |            |           | 17-18-18    | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 4GB     | 1Rx8                      | HX436C17PB3AK4/32           | SS    | Samsung    |           | 17-18-18-39 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 4GB     | 1Rx8                      | HX436C17PB3AK2/16           | SS    | Samsung    |           | 17-18-18-39 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 4GB     | 1Rx8                      | HX436C17PB3A/8              | SS    | Samsung    |           | 17-18-18-39 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 16GB    | 2Rx8                      | HX436C17PB3K4/64            | SS    | Samsung    |           | 17-19-19-39 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 16GB    | 2Rx8                      | HX436C17PB3K2/32            | SS    | Samsung    |           | 17-19-19-39 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 16GB    | 2Rx8                      | HX436C17PB3/16              | SS    | Samsung    |           | 17-19-19-39 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 16GB    | 2Rx8                      | HX436C17PB3K4/64            | SS    | Hynix      |           | 17-19-19-39 | 1.35v   | v                     | v |   | v   | 2400   |
| HyperX          | 16GB    | 2Rx8                      | HX436C17PB3K2/32            | SS    | Hynix      |           | 17-19-19-39 | 1.35v   | v                     | v |   | v   | 2400   |
| HyperX          | 16GB    | 2Rx8                      | HX436C17PB3/16              | SS    | Hynix      |           | 17-19-19-39 | 1.35v   | v                     | v |   | v   | 2400   |
| ADATA           | 4GB     | 1Rx8                      | AX4U3600W4G17-BWZ           | SS    | Samsung    |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2133   |
| ADATA           | 4GB     | 1Rx8                      | AX4U3600W4G17-DWZ           | SS    | Samsung    |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2133   |
| ADATA           | 4GB     | 1Rx8                      | AX4U3600W4G17-QWZ           | SS    | Samsung    |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2133   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-BRZ1          | SS    | Nanya      |           | 16-18-18    | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-SRZ1          | SS    | Nanya      |           | 16-18-18    | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-DRZ1          | SS    | Nanya      |           | 16-18-18    | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-QRZ1          | SS    | Nanya      |           | 16-18-18    | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-BR80          | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-SR80          | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-DR80          | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-QR80          | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-BR41          | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-SR41          | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-DR41          | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2666   |
| ADATA           | 8GB     | 1Rx8                      | AX4U360038G17-QR41          | SS    |            |           | 17-18-18-38 | 1.35v   | v                     | v | v | v   | 2666   |
| Apacer          | 4GB     | 1Rx8                      | AHU04GGB36CKT5H             | SS    |            |           | 18-18-18-42 | 1.35v   | v                     | v | v | v   | 2400   |
| Apacer          | 8GB     | 1Rx8                      | AHU08GGB36CJU5H             | SS    |            |           | 18-18-18-42 | 1.35v   | v                     | v | v | v   | 2400   |
| PATRIOT         | 8GB     | 1Rx8                      | PV416G360C7K                | SS    |            |           | CL17        | 1.35v   | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 1Rx8                      | TXD432G3600HC18AQC01        | SS    | Samsung    |           | 18-20-20-39 | 1.35v   | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 1Rx8                      | TXGD432G3600HC18AQC01       | SS    | Samsung    |           | 18-20-20-39 | 1.35v   | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 1Rx8                      | TXD416G3600HC18ADC01        | SS    | Samsung    |           | 18-20-20-39 | 1.35v   | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 1Rx8                      | TXGD416G3600HC18ADC01       | SS    | Samsung    |           | 18-20-20-39 | 1.35v   | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 1Rx8                      | TF5D416G3600HC18EDC01       | SS    | Samsung    |           | 18-20-20-44 | 1.35v   | v                     | v | v | v   | 2400   |
| Team            | 8GB     | 1Rx8                      | TF6D416G3600HC18EDC01       | SS    | Samsung    |           | 18-20-20-44 | 1.35v   | v                     | v | v | v   | 2400   |
| Team            | 8GB     | 1Rx8                      | TF1D416G3600HC18EDC01       | SS    | Samsung    |           | 18-20-20-44 | 1.35v   | v                     | v | v | v   | 2400   |
| Team            | 8GB     | 1Rx8                      | TF2D416G3600HC18EDC01       | SS    | Samsung    |           | 18-20-20-44 | 1.35v   | v                     | v | v | v   | 2400   |
| ZADAK           | 8GB     | 1Rx8                      | ZD4-SHD3600C17-08GAS        | SS    |            |           | 17-19-19-39 | 1.35v   | v                     | v | v | v   | 2133   |
| V-Color         | 8GB     | 1Rx8                      | TA48G36S818BN               | SS    | Hynix      |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2666   |
| V-Color         | 8GB     | 1Rx8                      | TL48G36S8BNR8B18            | SS    | Hynix      |           | 18-19-19-39 | 1.35v   | v                     | v | v | v   | 2666   |

DDR4 3400~3466MHz

| Module Supplier | Density | # of Ranks x DRAM devices | Module P/N.                 | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|-----------------|---------|---------------------------|-----------------------------|-------|------------|-----------|-------------|---------|-----------------------|---|---|-----|--------|
|                 |         |                           |                             |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| CORSAIR         | 4GB     | 1Rx8                      | CMD16GX4M4B3400C16          | SS    |            |           | 16-18-18-40 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                      | CMD16GX4M4B3466C18          | SS    |            |           | 18-19-19-38 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                      | CMK16GX4M4B3400C16 ver 4.24 | SS    | Samsung    |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMK32GX4M4B3466C16          | SS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMK32GX4M4B3466C16R         | SS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                      | CMK16GX4M2B3466C16          | DS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                      | CMK16GX4M2B3466C16R         | DS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMU32GX4M4C3400C16R         | SS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | V   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMU32GX4M4C3400C16          | SS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | V   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMD32GX4M4B3466C16          | SS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |

|         |      |      |                            |    |         |  |             |       |   |   |   |   |      |
|---------|------|------|----------------------------|----|---------|--|-------------|-------|---|---|---|---|------|
| CORSAIR | 8GB  | 2Rx8 | CMU32GX4M4C3466C16         | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | V | 2133 |
| CORSAIR | 8GB  | 2Rx8 | CMU32GX4M4C3466C16R        | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | V | 2133 |
| CORSAIR | 8GB  | 1Rx8 | CMR32GX4M4C3466C16 ver4.31 | SS | Samsung |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR | 8GB  | 1Rx8 | CMR16GX4M2C3466C16 ver4.31 | SS | Samsung |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR | 8GB  | 1Rx8 | CMK16GX4M2Z3466C16 ver4.31 | SS | Samsung |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR | 16GB | 2Rx8 | CMD32GX4M2B3466C16 ver4.31 | DS | Samsung |  | 16-18-18-36 | 1.35v | v | v |   | v | 2133 |
| CORSAIR | 16GB | 2Rx8 | CMR64GX4M4C3466C16 ver4.31 | DS | Samsung |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| G.SKILL | 8GB  | 2Rx8 | F4-3400C16Q-32GTZ          | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| G.SKILL | 8GB  | 1Rx8 | F4-3400C16Q2-64GTZ         | SS | Samsung |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| G.SKILL | 8GB  | 1Rx8 | F4-3466C16Q2-64GTZ         | SS | Samsung |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| G.SKILL | 8GB  | 2Rx8 | F4-3400C16D-16GVK          | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| G.SKILL | 8GB  | 1Rx8 | F4-3466C16D-16GFX          | SS |         |  | 16-16-16-36 | 1.35v | v | v | v | v | 2133 |
| G.SKILL | 8GB  | 1Rx8 | F4-3400C16D-16GSXW         | SS |         |  | 16-16-16-36 | 1.35v | v | v | v | v | 2133 |
| G.SKILL | 16GB | 2Rx8 | F4-3400C16Q-64GVK          | DS | Samsung |  | 16-16-16-36 | 1.35v | v | v | v | v | 2133 |
| G.SKILL | 16GB | 2Rx8 | F4-3466C16Q-64GTZ          | DS | Samsung |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| G.SKILL | 16GB | 2Rx8 | F4-3466C16Q-64GTZ          | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| HyperX  | 8GB  | 1Rx8 | HX434C19FB2/8              | SS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 8GB  | 1Rx8 | HX434C19FB2K2/16           | SS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 8GB  | 1Rx8 | HX434C19FB2K4/32           | SS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 8GB  | 1Rx8 | HX434C19FW2/8              | SS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 8GB  | 1Rx8 | HX434C19FW2K2/16           | SS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 8GB  | 1Rx8 | HX434C19FW2K4/32           | SS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 8GB  | 1Rx8 | HX434C19FR2/8              | SS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 8GB  | 1Rx8 | HX434C19FR2K2/16           | SS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 8GB  | 1Rx8 | HX434C19FR2K4/32           | SS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 16GB | 2Rx8 | HX434C19FB2/16             | DS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 16GB | 2Rx8 | HX434C19FB2K2/32           | DS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 16GB | 2Rx8 | HX434C19FB2K4/64           | DS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 16GB | 2Rx8 | HX434C19FW2/16             | DS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 16GB | 2Rx8 | HX434C19FW2K2/32           | DS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 16GB | 2Rx8 | HX434C19FW2K4/64           | DS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 16GB | 2Rx8 | HX434C19FR2/16             | DS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 16GB | 2Rx8 | HX434C19FR2K2/32           | DS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| HyperX  | 16GB | 2Rx8 | HX434C19FR2K4/64           | DS | Micron  |  | CL19        | 1.2v  | v | v | v | v | 2933 |
| Apacer  | 4GB  | 1Rx8 | 78.BAGN1.4020B             | SS | Samsung |  | 18-18-18-42 | 1.35v |   |   | v | v | 2133 |
| PATRIOT | 4GB  | 1Rx8 | PV48G340C6K                | SS |         |  | CL16        | 1.35v | v | v | v | v | 2133 |
| PATRIOT | 8GB  | 1Rx8 | PV416G340C6K               | SS |         |  | CL16        | 1.35v | v | v | v | v | 2133 |

#### DDR4 3300~3333MHz

| Module Supplier | Density | # of Ranks x DRAM devices | Module P/N.                | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|-----------------|---------|---------------------------|----------------------------|-------|------------|-----------|-------------|---------|-----------------------|---|---|-----|--------|
|                 |         |                           |                            |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| HyperX          | 4GB     | 1Rx8                      | HX433C17PBK4/16            | SS    |            |           | 17-17-17-43 | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                      | HX433C16PB3K2/16           | SS    |            |           | 16-18-18    | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                      | HX433C16PB3K4/32           | SS    |            |           | 16-18-18    | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                      | HX433C16PB3K2/16           | SS    |            |           | 16-18-18    | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 16GB    | 2Rx8                      | HX433C16PB3/16             | DS    | Hynix      |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 16GB    | 2Rx8                      | HX433C16PB3K2/32           | DS    | Hynix      |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 16GB    | 2Rx8                      | HX433C16PB3K4/64           | DS    | Hynix      |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2400   |
| CORSAIR         | 4GB     | 1Rx8                      | CMK16GX4M4B3300C16         | SS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                      | CMD16GX4M4B3300C16         | SS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                      | CMK16GX4M4B3333C16         | SS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                      | CMK8GX4M2B3333C16          | SS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                      | CMD32GX4M4B3333C16         | DS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                      | CMD64GX4M8B3333C16 ver4.31 | SS    | Samsung    |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                      | CMK64GX4M4B3333C16         | DS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                      | CMK64GX4M4B3333C16R        | DS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                      | CMR64GX4M4C3333C16 ver4.31 | DS    | Samsung    |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 1Rx8                      | F4-3300C16Q2-64GTZSW       | SS    | Samsung    |           | 16-16-16-36 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 2Rx8                      | F4-3333C16Q-32GVR          | DS    | Samsung    |           | 16-16-16-36 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 16GB    | 2Rx8                      | F4-3333C16Q2-128GTZSW      | DS    | Samsung    |           | 16-18-18-38 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 16GB    | 2Rx8                      | F4-3300C16Q2-128GTZ        | DS    | Samsung    |           | 16-16-16-36 | 1.35v   | v                     | v | v | v   | 2133   |

#### DDR4 3200MHz

| Module Supplier | Density | # of Ranks x DRAM devices | Module P/N.       | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|-----------------|---------|---------------------------|-------------------|-------|------------|-----------|-------------|---------|-----------------------|---|---|-----|--------|
|                 |         |                           |                   |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| HyperX          | 4GB     | 1Rx8                      | HX432C16PB3K4/16  | SS    | SKhynix    |           | 16-16-16-39 | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                      | HX432C16PB3K4/32  | SS    | Hynix      |           | 16-18-18    | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                      | HX432C16PB3K2/16  | SS    | Hynix      |           | 16-18-18    | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                      | HX432C18FB2/8     | SS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX432C18FB2K2/16  | SS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX432C18FB2K4/32  | SS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX432C18FW2/8     | SS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX432C18FW2K2/16  | SS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX432C18FW2K4/32  | SS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX432C18FR2/8     | SS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX432C18FR2K2/16  | SS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX432C18FR2K4/32  | SS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX432C16PB3A/8    | SS    | Hynix      |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 8GB     | 1Rx8                      | HX432C16PB3AK2/16 | SS    | Hynix      |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 8GB     | 1Rx8                      | HX432C16PB3AK4/32 | SS    | Hynix      |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2400   |
| HyperX          | 16GB    | 2Rx8                      | HX432C18FB2/16    | DS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX432C18FB2K2/32  | DS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX432C18FB2K4/64  | DS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX432C18FW2/16    | DS    | Micron     |           | CL18        | 1.2v    | v                     | v | v | v   | 2933   |

|              |      |      |                             |    |         |  |             |       |   |   |   |   |      |
|--------------|------|------|-----------------------------|----|---------|--|-------------|-------|---|---|---|---|------|
| HyperX       | 16GB | 2Rx8 | HX432C18FW2K2/32            | DS | Micron  |  | CL18        | 1.2v  | v | v | v | v | 2933 |
| HyperX       | 16GB | 2Rx8 | HX432C18FW2K4/64            | DS | Micron  |  | CL18        | 1.2v  | v | v | v | v | 2933 |
| HyperX       | 16GB | 2Rx8 | HX432C18FR2/16              | DS | Micron  |  | CL18        | 1.2v  | v | v | v | v | 2933 |
| HyperX       | 16GB | 2Rx8 | HX432C18FR2K2/32            | DS | Micron  |  | CL18        | 1.2v  | v | v | v | v | 2933 |
| HyperX       | 16GB | 2Rx8 | HX432C18FR2K4/64            | DS | Micron  |  | CL18        | 1.2v  | v | v | v | v | 2933 |
| HyperX       | 16GB | 2Rx8 | HX432C16PB3/16              | DS | Hynix   |  | 16-18-18-36 | 1.35v | v | v | v | v | 2400 |
| HyperX       | 16GB | 2Rx8 | HX432C16PB3K2/32            | DS | Hynix   |  | 16-18-18-36 | 1.35v | v | v | v | v | 2400 |
| HyperX       | 16GB | 2Rx8 | HX432C16PB3K4/64            | DS | Hynix   |  | 16-18-18-36 | 1.35v | v | v | v | v | 2400 |
| CORSAIR      | 4GB  | 1Rx8 | CMK16GX4M4B3200C15          | SS |         |  | 16-17-17-35 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 4GB  | 1Rx8 | CMK8GX4M2B3200C16           | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 4GB  | 1Rx8 | CMK8GX4M2B3200C16R          | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 4GB  | 1Rx8 | CMK16GX4M4B3200C16          | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 4GB  | 1Rx8 | CMK16GX4M4C3200C16          | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 4GB  | 1Rx8 | CMK16GX4M4C3200C16R         | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 4GB  | 1Rx8 | CMD16GX4M4C3200C15          | SS |         |  | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 4GB  | 1Rx8 | CMD16GX4M4B3200C14          | SS |         |  | 14-16-16-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 4GB  | 1Rx8 | CMD16GX4M4C3200C16 ver4.24  | SS | Samsung |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 8GB  | 2Rx8 | CMK16GX4M2B3200C16          | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 8GB  | 2Rx8 | CMK16GX4M2B3200C16R         | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 8GB  | 2Rx8 | CMK16GX4M2B3200C16W         | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 8GB  | 1Rx8 | CMD64GX4M8B3200C16          | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 8GB  | 1Rx8 | CMK64GX4M8B3200C16          | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 8GB  | 2Rx8 | CMD32GX4M4B3200C16          | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 8GB  | 1Rx8 | CMW32GX4M4C3200C16 ver5.32  | SS | Hynix   |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMK32GX4M2B3200C16          | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMK32GX4M2B3200C16R         | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMK32GX4M2B3200C16W         | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMK64GX4M4B3200C16          | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMU32GX4M2C3200C16 ver4.31  | DS | Samsung |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMU32GX4M2C3200C16R ver4.31 | DS | Samsung |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMU64GX4M4C3200C16 ver4.31  | DS | Samsung |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMU64GX4M4C3200C16R ver4.31 | DS | Samsung |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMK32GX4M2B3200C16 ver5.39  | DS | Hynix   |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMD32GX4M2C3200C16 ver5.39  | DS | Hynix   |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| CORSAIR      | 16GB | 2Rx8 | CMK32GX4M2D3200C16 ver3.31  | DS | Micron  |  | 16-19-19-36 | 1.35v | v | v | v | v | 2133 |
| G.SKILL      | 4GB  | 1Rx8 | F4-3200C16Q-16GRK           | SS |         |  | 16-16-16-36 | 1.35v | v | v | v | v | 2133 |
| G.SKILL      | 8GB  | 2Rx8 | F4-3200C16Q-32GVK           | DS |         |  | 16-16-16-36 | 1.35v | v | v | v | v | 2133 |
| G.SKILL      | 8GB  | 2Rx8 | F4-3200C16D-16GVKB          | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| G.SKILL      | 8GB  | 1Rx8 | F4-3200C14Q2-64GVK          | SS | Samsung |  | 14-14-14-34 | 1.35v | v | v | v | v | 2133 |
| G.SKILL      | 8GB  | 1Rx8 | F4-3200C15Q2-64GVR          | SS | Samsung |  | 15-15-15-35 | 1.35v | v | v | v | v | 2133 |
| G.SKILL      | 8GB  | 1Rx8 | F4-3200C14Q-32GFX           | SS |         |  | 14-14-14-34 | 1.35v | v | v | v | v | 2133 |
| G.SKILL      | 8GB  | 1Rx8 | F4-3200C16Q-32GTZR          | SS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| G.SKILL      | 16GB | 2Rx8 | F4-3200C16Q-64GVK           | DS | Samsung |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| G.SKILL      | 16GB | 2Rx8 | F4-3200C14Q-64GVK           | DS | Samsung |  | 14-14-14-34 | 1.35v | v | v | v | v | 2133 |
| G.SKILL      | 16GB | 2Rx8 | F4-3200C14Q2-128GTZ         | DS | Samsung |  | 14-14-14-34 | 1.35v | v | v | v | v | 2133 |
| AORUS        | 8GB  | 1Rx8 | GP-AR32C16S8K2SU416R        | SS | Samsung |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| AORUS        | 8GB  | 1Rx8 | GP-AR32C16S8K2HU416R        | SS | Hynix   |  | 16-18-18-38 | 1.35v | v | v | v | v | 2666 |
| ADATA        | 4GB  | 1Rx8 | AX4U3200W4G16-BGZ           | SS | Samsung |  | 16-16-16    | 1.35v | v | v | v | v | 2133 |
| ADATA        | 4GB  | 1Rx8 | AX4U3200W4G16-DGZ           | SS | Samsung |  | 16-16-16    | 1.35v | v | v | v | v | 2133 |
| ADATA        | 4GB  | 1Rx8 | AX4U3200W4G16-QGZ           | SS | Samsung |  | 16-16-16    | 1.35v | v | v | v | v | 2133 |
| ADATA        | 8GB  | 1Rx8 | AX4U320038G16-B             | SS | Samsung |  | 16-16-16    | 1.35v | v | v | v | v | 2133 |
| ADATA        | 8GB  | 1Rx8 | AX4U320038G16-BRS           | SS |         |  | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA        | 8GB  | 1Rx8 | AX4U320038G16-SRS           | SS |         |  | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA        | 8GB  | 1Rx8 | AX4U320038G16-DRS           | SS |         |  | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA        | 8GB  | 1Rx8 | AX4U320038G16-QRS           | SS |         |  | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA        | 8GB  | 1Rx8 | AX4U320038G16-BRZ1          | SS | Nanya   |  | 16-18-18    | 1.35v | v | v | v | v | 2666 |
| ADATA        | 8GB  | 1Rx8 | AX4U320038G16-SRZ1          | SS | Nanya   |  | 16-18-18    | 1.35v | v | v | v | v | 2666 |
| ADATA        | 8GB  | 1Rx8 | AX4U320038G16-DRZ1          | SS | Nanya   |  | 16-18-18    | 1.35v | v | v | v | v | 2666 |
| ADATA        | 8GB  | 1Rx8 | AX4U320038G16-QRZ1          | SS | Nanya   |  | 16-18-18    | 1.35v | v | v | v | v | 2666 |
| ADATA        | 8GB  | 1Rx8 | AX4U320038G16-BRS           | SS |         |  | 16-18-18    | 1.35v | v | v | v | v | 2666 |
| ADATA        | 16GB | 2Rx8 | AX4U3200316G16-SGZ          | DS |         |  | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA        | 16GB | 2Rx8 | AX4U3200316G16-QGZ          | DS |         |  | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| Apacer       | 4GB  | 1Rx8 | 78.BAGMD.AF20B              | SS |         |  | 16-16-16-36 | 1.35v | v | v | v | v | 2133 |
| GEIL         | 4GB  | 1Rx8 | GPR416GB3200C16QC           | SS |         |  | 16-16-16-36 | 1.35v | v | v | v | v | 2133 |
| GEIL         | 8GB  | 1Rx8 | GEX416GB3200C16DC           | SS |         |  | 16-16-16-36 | 1.35v | v | v | v | v | 2133 |
| GEIL         | 8GB  | 1Rx8 | GAFY416GB3200C16ADC         | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| PATRIOT      | 4GB  | 1Rx8 | PV48G320C6K                 | SS |         |  | CL16        | 1.35v | v | v | v | v | 2133 |
| PATRIOT      | 8GB  | 1Rx8 | PV416G320C6K                | SS |         |  | CL16        | 1.35v | v | v | v | v | 2133 |
| PATRIOT      | 8GB  | 1Rx8 | PVR416G320C6K               | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| PATRIOT      | 8GB  | 1Rx8 | PVR416G320C6KW              | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| PATRIOT      | 16GB | 2Rx8 | PV432G320C6K                | DS |         |  | CL16        | 1.35v | v | v | v | v | 2133 |
| SUPER TALENT | 4GB  | 1Rx8 | F3200UA4G                   | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| SUPER TALENT | 16GB | 2Rx8 | F3200UB16G                  | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| Team         | 8GB  | 2Rx8 | THRD432G3200HC16CQC01       | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team         | 8GB  | 2Rx8 | THWD432G3200HC16CQC01       | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team         | 8GB  | 2Rx8 | THBD432G3200HC16CQC01       | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team         | 8GB  | 2Rx8 | THRD416G3200HC16CDC01       | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team         | 8GB  | 2Rx8 | THWD416G3200HC16CDC01       | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team         | 8GB  | 2Rx8 | THBD416G3200HC16CDC01       | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team         | 16GB | 2Rx8 | THRD464G3200HC16CQC01       | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team         | 16GB | 2Rx8 | THWD464G3200HC16CQC01       | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team         | 16GB | 2Rx8 | THBD464G3200HC16CQC01       | DS |         |  | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |

|             |      |      |                       |    |       |  |             |       |   |   |   |   |      |
|-------------|------|------|-----------------------|----|-------|--|-------------|-------|---|---|---|---|------|
| Team        | 16GB | 2Rx8 | THRD432G3200HC16CDC01 | DS |       |  | 16-18-18-38 | 1.35v | v | v |   | v | 2133 |
| Team        | 16GB | 2Rx8 | THWD432G3200HC16CDC01 | DS |       |  | 16-18-18-38 | 1.35v | v | v |   | v | 2133 |
| Team        | 16GB | 2Rx8 | THBD432G3200HC16CDC01 | DS |       |  | 16-18-18-38 | 1.35v | v | v |   | v | 2133 |
| Thermaltake | 8GB  | 1Rx8 | CL-W251-CA00SW-A      | SS | Hynix |  | 16-18-18-38 | 1.35v | v | v |   | v | 2666 |
| Thermaltake | 8GB  | 1Rx8 | CL-W252-CA00SW-A      | SS | Hynix |  | 16-18-18-38 | 1.35v | v | v | v | v | 2666 |
| KLEVV       | 8GB  | 1Rx8 | IM48GU88A32-GIIEZ     | DS |       |  | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| Neo Forza   | 8GB  | 1Rx8 | NMUD480E81-3200DD30   | SS | Hynix |  | 16-18-18-16 | 1.35v | v | v | v | v | 2133 |
| Neo Forza   | 8GB  | 1Rx8 | NMUD480E81-3200DA30   | SS | Hynix |  | 16-18-18-16 | 1.35v | v | v | v | v | 2133 |
| Neo Forza   | 8GB  | 1Rx8 | NMUD480E81-3200DB30   | SS | Hynix |  | 16-18-18-16 | 1.35v | v | v | v | v | 2133 |
| Neo Forza   | 8GB  | 1Rx8 | NMUD480E81-3200DC30   | SS | Hynix |  | 16-18-18-16 | 1.35v | v | v | v | v | 2133 |
| Neo Forza   | 16GB | 2Rx8 | NMUD416E81-3200DD30   | DS | Hynix |  | 16-18-18-16 | 1.35v | v | v |   | v | 2133 |
| Neo Forza   | 16GB | 2Rx8 | NMUD416E81-3200DA30   | DS | Hynix |  | 16-18-18-16 | 1.35v | v | v |   | v | 2133 |
| Neo Forza   | 16GB | 2Rx8 | NMUD416E81-3200DB30   | DS | Hynix |  | 16-18-18-16 | 1.35v | v | v |   | v | 2133 |
| Neo Forza   | 16GB | 2Rx8 | NMUD416E81-3200DC30   | DS | Hynix |  | 16-18-18-16 | 1.35v | v | v |   | v | 2133 |
| V-Color     | 8GB  | 1Rx8 | TA48G32S816S          | SS | Hynix |  | 16-18-18-38 | 1.35v | v | v | v | v | 2666 |
| V-Color     | 8GB  | 1Rx8 | TL48G32S8SRGB16       | SS | Hynix |  | 16-18-18-38 | 1.35v | v | v | v | v | 2666 |

#### DDR4 3000MHz

| Module Supplier | Density | # of Ranks<br>x DRAM<br>devices | Module P/N.                 | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|-----------------|---------|---------------------------------|-----------------------------|-------|------------|-----------|-------------|---------|-----------------------|---|---|-----|--------|
|                 |         |                                 |                             |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| HyperX          | 4GB     | 1Rx8                            | HX430C15PB3K4/16            | SS    | Hynix      |           | C15         | 1.35v   | v                     | v |   | v   | 2133   |
| HyperX          | 4GB     | 1Rx8                            | HX430C15PB3K2/8             | SS    | Hynix      |           | C15         | 1.35v   | v                     | v |   | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                            | HX430C15PB3K4/32            | SS    | Hynix      |           | C15         | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                            | HX430C15PB3K2/16            | SS    | Hynix      |           | C15         | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                            | HX430C15PB3/8               | SS    | Hynix      |           | C15         | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 16GB    | 2Rx8                            | HX430C15PB3K4/64            | DS    | Hynix      |           | C15         | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 16GB    | 2Rx8                            | HX430C15PB3K2/32            | DS    | Hynix      |           | C15         | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 16GB    | 2Rx8                            | HX430C15PB3K8/128           | DS    | Hynix      |           | C15         | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 16GB    | 2Rx8                            | HX430C15PB3K4/64            | DS    | Hynix      |           | C15         | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 16GB    | 2Rx8                            | HX430C15PB3K2/32            | DS    | Hynix      |           | C15         | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                            | CMK16GX4M4B3000C15          | SS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                            | CMK16GX4M4B3000C15B         | SS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                            | CMK16GX4M4B3000C15R         | SS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                            | CMD16GX4M4B3000C14          | SS    |            |           | 14-16-16-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                            | CMK8GX4M2B3000C15           | SS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                            | CMK8GX4M2B3000C15R          | SS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMK32GX4M4B3000C15          | DS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMK16GX4M2B3000C15 ver4.23  | DS    | Samsung    |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMK16GX4M2B3000C15B ver4.23 | DS    | Samsung    |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMK16GX4M2B3000C15R ver4.23 | DS    | Samsung    |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMK16GX4M2B3000C15W ver4.23 | DS    | Samsung    |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMD16GX4M2B3000C15 ver4.23  | DS    | Samsung    |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMD32GX4M4C3000C15 ver4.24  | DS    | Samsung    |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMU16GX4M2C3000C15 ver5.30  | DS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMU16GX4M2C3000C15R ver5.30 | DS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMU32GX4M4C3000C15          | DS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMU32GX4M4C3000C15R         | DS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMK16GX4M2B3000C15 ver5.30  | SS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMK16GX4M2B3000C15B ver5.30 | SS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMK16GX4M2B3000C15R ver5.30 | SS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMK16GX4M2B3000C15W ver5.30 | SS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CM4X8GC3000C15K4-CN ver4.24 | DS    | Samsung    |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMD32GX4M4C3000C15 ver5.30  | SS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMR32GX4M4C3000C15 ver4.31  | SS    | Samsung    |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMD16GX4M2B3000C15 ver5.30  | SS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMR16GX4M2C3000C15 ver4.31  | SS    | Samsung    |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMR64GX4M8C3000C15 ver5.30  | SS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMK16GX4M2B3000C15 ver3.32  | SS    | Micron     |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMD32GX4M4C3000C15 ver3.32  | SS    | Micron     |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMK16GX4M2C3000C16 ver3.31  | SS    | Micron     |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMR16GX4M2C3000C15 ver5.30  | SS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMW32GX4M4C3000C15 ver5.32  | SS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMW64GX4M8C3000C15 ver5.32  | SS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                            | CMK32GX4M2B3000C15 ver5.39  | DS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                            | CMK64GX4M4B3000C15          | DS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                            | CMK128GX4M8B3000C16         | DS    |            |           | 16-18-18-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                            | CMD64GX4M4C3000C15          | DS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                            | CMU64GX4M4C3000C15R         | DS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                            | CMU64GX4M4C3000C15          | DS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                            | CMU32GX4M2C3000C15R         | DS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                            | CMU32GX4M2C3000C15          | DS    |            |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                            | CMD32GX4M2B3000C15 ver5.39  | DS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                            | CMR32GX4M2C3000C15 ver4.31  | DS    | Samsung    |           | 15-17-17-35 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 32GB    | 2Rx8                            | CMK64GX4M2D3000C16 ver3.40  | DS    | Micron     |           | 16-20-20-38 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 32GB    | 2Rx8                            | CMK128GX4M4D3000C16 ver5.49 | DS    | Hynix      |           | 16-20-20-38 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 32GB    | 2Rx8                            | CMK64GX4M2C3000C15 ver 5.49 | DS    | Hynix      |           | 15-17-17-35 | 1.35v   | v                     | v |   | v   | 2133   |
| CRUCIAL         | 8GB     | 1Rx8                            | BLT8G4D30BET4K.C8FD         | SS    | Micron     |           | 16-18-18-38 | 1.35v   | v                     | v | v | v   | 2400   |
| G.SKILL         | 4GB     | 1Rx8                            | F4-3000C15Q-16GVR           | SS    |            |           | 15-15-15-35 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 2Rx8                            | F4-3000C15Q-32GRK           | DS    |            |           | 15-15-15-35 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 1Rx8                            | F4-3000C15Q2-64GVR          | SS    |            |           | 15-15-15-35 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 1Rx8                            | F4-3000C16D-16GTZR          | SS    |            |           | 16-18-18-38 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 16GB    | 2Rx8                            | F4-3000C14Q2-128GVKD        | DS    |            |           | 14-14-14-34 | 1.35v   | v                     | v | v | v   | 2133   |
| GALAX           | 8GB     | 1Rx8                            | HOF4CAL1CS3000G16LD162C     | SS    |            |           | 16-18-18-38 | 1.35    | v                     | v | v | v   | 2133   |

|           |      |      |                                  |    |         |             |       |   |   |   |   |      |
|-----------|------|------|----------------------------------|----|---------|-------------|-------|---|---|---|---|------|
| GALAX     | 8GB  | 2Rx8 | Gamer II RGB DDR4 3000 16G(8G*2) | DS |         | 16-18-18-38 | 1.35  | v | v | v | v | 2133 |
| ADATA     | 4GB  | 1Rx8 | AX4U3000W4G16-BWZ                | SS |         | 16-16-16    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 4GB  | 1Rx8 | AX4U3000W4G16-DWZ                | SS |         | 16-16-16    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 4GB  | 1Rx8 | AX4U3000W4G16-QWZ                | SS |         | 16-16-16    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-BBZ                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-DBZ                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-QBZ                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-BBG                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-SBG                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-DBG                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-QBG                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-BRS                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-SRS                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-DRS                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-QRS                | SS | Hynix   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-BRZ                | SS |         | 16-18-18    | 1.35v | v | v | v | v | 2666 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-BRS                | SS | Nanya   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-SRS                | SS | Nanya   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-DRS                | SS | Nanya   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 8GB  | 1Rx8 | AX4U300038G16-QRS                | SS | Nanya   | 16-18-18    | 1.35v | v | v | v | v | 2133 |
| ADATA     | 16GB | 2Rx8 | AX4U3000316G16-SRZ               | DS | Samsung | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| ADATA     | 16GB | 2Rx8 | AX4U3000316G16-DRZ               | DS | Samsung | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| ADATA     | 16GB | 2Rx8 | AX4U3000316G16-QRZ               | DS | Samsung | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| Apacer    | 8GB  | 2Rx8 | AHU08GGB30CDT5H                  | DS |         | 16-16-16-36 |       | v | v | v | v | 2133 |
| Apacer    | 8GB  | 1Rx8 | AHU08GGB30CDU7V                  | SS |         | 16-16-16-36 | 1.35v | v | v | v | v | 2133 |
| Apacer    | 8GB  | 1Rx8 | AHU08GGB30CKU8R (EK.16GAZ.GJDK2) | SS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2400 |
| GEIL      | 8GB  | 2Rx8 | GPR416GB3000C15ADC               | SS |         | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| GEIL      | 8GB  | 1Rx8 | GEX416GB3000C15ADC               | SS |         | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| GEIL      | 16GB | 2Rx8 | GEXB4128GB3000C16ADQC            | DS |         | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| PATRIOT   | 4GB  | 1Rx8 | PV48G300C6K                      | SS |         | CL16        | 1.35v | v | v | v | v | 2133 |
| PATRIOT   | 8GB  | 1Rx8 | PV416G300C6K                     | SS |         | CL16        | 1.35v | v | v | v | v | 2133 |
| KLEVV     | 4GB  | 1Rx8 | KM4B4GX1A-3000-15-16-16-36-0     | SS |         | 15-16-16-36 | 1.35v | v | v | v | v | 2400 |
| KLEVV     | 4GB  | 1Rx8 | KM4Z4GX1A-3000-15-16-16-36-1     | SS |         | 15-16-16-36 | 1.35v | v | v | v | v | 2400 |
| KLEVV     | 8GB  | 1Rx8 | KM4B8GX1A-3000-15-16-16-36-0     | SS |         | 15-16-16-36 | 1.35v | v | v | v | v | 2400 |
| KLEVV     | 8GB  | 1Rx8 | KM4Z8GX1A-3000-15-16-16-36-1     | SS |         | 15-16-16-36 | 1.35v | v | v | v | v | 2400 |
| KLEVV     | 16GB | 2Rx8 | KM4B16X1A-3000-15-16-16-36-0     | DS |         | 15-16-16-36 | 1.35v | v | v | v | v | 2400 |
| KLEVV     | 16GB | 2Rx8 | KM4Z16X1A-3000-15-16-16-36-0     | DS |         | 15-16-16-36 | 1.35v | v | v | v | v | 2400 |
| Team      | 4GB  | 1Rx8 | TLRED416G3000HC16CQC01           | SS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 4GB  | 1Rx8 | TDGED416G3000HC16CQC01           | SS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 4GB  | 1Rx8 | TLRED48G3000HC16CDC01            | SS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 4GB  | 1Rx8 | TDGED48G3000HC16CDC01            | SS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | TLRED432G3000HC16CQC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | TDGED432G3000HC16CQC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | THRD432G3000HC16CQC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | THWD432G3000HC16CQC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | THBD432G3000HC16CQC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | TDTRD432G3000HC16CQC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | TDTWD432G3000HC16CQC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | TDTBD432G3000HC16CQC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | TLRED416G3000HC16CDC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | TDGED416G3000HC16CDC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | THRD416G3000HC16CDC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | THWD416G3000HC16CDC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | THBD416G3000HC16CDC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | TDTRD416G3000HC16CDC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | TDTWD416G3000HC16CDC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 2Rx8 | TDTBD416G3000HC16CDC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 1Rx8 | TF1D416G3000HC16CDC01            | SS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 1Rx8 | TF2D416G3000HC16CDC01            | SS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 1Rx8 | TF3D416G3000HC16CDC01            | SS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 8GB  | 1Rx8 | TF4D416G3000HC16CDC01            | SS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | THRD464G3000HC16CQC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | THWD464G3000HC16CQC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | THBD464G3000HC16CQC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | TDTRD464G3000HC16CQC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | TDTWD464G3000HC16CQC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | TDTBD464G3000HC16CQC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | THRD432G3000HC16CDC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | THWD432G3000HC16CDC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | THBD432G3000HC16CDC01            | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | TDTRD432G3000HC16CDC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | TDTWD432G3000HC16CDC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Team      | 16GB | 2Rx8 | TDTBD432G3000HC16CDC01           | DS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| V-Color   | 8GB  | 1Rx8 | TL48G30S816B                     | SS |         | CL16        | 1.35v | v | v | v | v | 2133 |
| V-Color   | 8GB  | 1Rx8 | TL48G30S816RGB                   | SS |         | 16-18-18-38 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 8GB  | 1Rx8 | NMUD480E82-3000DC30              | SS | Hynix   | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 8GB  | 1Rx8 | NMUD480E82-3000DA30              | SS | Hynix   | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 8GB  | 1Rx8 | NMUD480E82-3000DB30              | SS | Hynix   | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 8GB  | 1Rx8 | NMUD480E82-3000DD30              | SS | Hynix   | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 8GB  | 1Rx8 | NMUD480E81-3000DC30              | SS | Hynix   | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 8GB  | 1Rx8 | NMUD480E81-3000DA30              | SS | Hynix   | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 8GB  | 1Rx8 | NMUD480E81-3000DB30              | SS | Hynix   | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 8GB  | 1Rx8 | NMUD480E81-3000DD30              | SS | Hynix   | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |

|           |      |      |                     |    |       |  |             |       |   |   |   |   |      |
|-----------|------|------|---------------------|----|-------|--|-------------|-------|---|---|---|---|------|
| Neo Forza | 16GB | 2Rx8 | NMUD416E82-3000DC30 | DS | Hynix |  | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 16GB | 2Rx8 | NMUD416E82-3000DA30 | DS | Hynix |  | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 16GB | 2Rx8 | NMUD416E82-3000DB30 | DS | Hynix |  | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 16GB | 2Rx8 | NMUD416E82-3000DD30 | DS | Hynix |  | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 16GB | 2Rx8 | NMUD416E81-3000DC30 | DS | Hynix |  | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 16GB | 2Rx8 | NMUD416E81-3000DA30 | DS | Hynix |  | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 16GB | 2Rx8 | NMUD416E81-3000DB30 | DS | Hynix |  | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |
| Neo Forza | 16GB | 2Rx8 | NMUD416E81-3000DD30 | DS | Hynix |  | 15-17-17-35 | 1.35v | v | v | v | v | 2133 |

**DDR4 2933MHz**

| Module Supplier | Density | # of Ranks x DRAM devices | Module P/N.                  | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|-----------------|---------|---------------------------|------------------------------|-------|------------|-----------|-------------|---------|-----------------------|---|---|-----|--------|
|                 |         |                           |                              |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| CORSAIR         | 16GB    | 2Rx8                      | CMK128GX4M8Z2933C16 ver 4.31 | DS    | Samsung    |           | 16-18-18-36 | 1.35    | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                      | HX429C17FB2/8                | SS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX429C17FB2K2/16             | SS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX429C17FB2K4/32             | SS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX429C17FW2/8                | SS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX429C17FW2K2/16             | SS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX429C17FW2K4/32             | SS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX429C17FR2/8                | SS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX429C17FR2K2/16             | SS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX429C17FR2K4/32             | SS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 8GB     | 1Rx8                      | HX429C15PB3AK4/32            | SS    |            |           | CL15        | 1.35v   | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX429C17FB2/16               | DS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX429C17FB2K2/32             | DS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX429C17FB2K4/64             | DS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX429C17FW2/16               | DS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX429C17FW2K2/32             | DS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX429C17FW2K4/64             | DS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX429C17FR2/16               | DS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX429C17FR2K2/32             | DS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |
| HyperX          | 16GB    | 2Rx8                      | HX429C17FR2K4/64             | DS    | Micron     |           | CL17        | 1.2v    | v                     | v | v | v   | 2933   |

**DDR4 2800MHz**

| Module Supplier | Density | # of Ranks x DRAM devices | Module P/N.                 | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|-----------------|---------|---------------------------|-----------------------------|-------|------------|-----------|-------------|---------|-----------------------|---|---|-----|--------|
|                 |         |                           |                             |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| CORSAIR         | 4GB     | 1Rx8                      | CMK16GX4M4A2800C16R         | SS    |            |           | 16-18-18-36 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                      | CMK64GX4M8B2800C14          | DS    |            |           | 14-16-16-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                      | CMD64GX4M8B2800C14          | DS    |            |           | 14-16-16-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                      | CMD32GX4M4A2800C16 ver5.20  | DS    | Hynix      |           | 16-18-18-36 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                      | CMD128GX4M8B2800C14 ver5.39 | DS    | Hynix      |           | 14-16-16-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                      | CMD32GX4M2B2800C14          | DS    |            |           | 14-16-16-36 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 16GB    | 2Rx8                      | CMK64GX4M4B2800C14 ver 4.31 | DS    | Samsung    |           | 14-16-16-36 | 1.35v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 4GB     | 1Rx8                      | F4-2800C16Q-16GRK           | SS    |            |           | 16-16-16-36 | 1.2v    | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 2Rx8                      | F4-2800C16Q-32GRK           | DS    |            |           | 16-16-16-36 | 1.2v    | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 2Rx8                      | F4-2800C15Q2-64GRK          | DS    |            |           | 15-16-16-35 | 1.25v   | v                     | v | v | v   | 2133   |
| G.SKILL         | 16GB    | 2Rx8                      | F4-2800C15Q2-128GRKD        | DS    |            |           | 15-15-15-35 | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 2Rx8                      | HX428C14PBK8/64             | DS    |            |           | C14         | 1.35v   | v                     | v | v | v   | 2133   |
| Apacer          | 8GB     | 2Rx8                      | AHU08GGB28CET6H             | DS    |            |           | 17-17-17-36 |         | v                     | v | v | v   | 2133   |
| KINGMAX         | 8GB     | 1Rx8                      | GLMG42F-18KIIA CJBR4        | SS    |            |           |             | 1.2v    | v                     | v | v | v   | 2133   |
| PATRIOT         | 4GB     | 1Rx8                      | PVE48G280C6KRD              | SS    |            |           | CL16        | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 4GB     | 1Rx8                      | TLRED416G2800HC16CQC01      | SS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 4GB     | 1Rx8                      | TDGED416G2800HC16CQC01      | SS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 4GB     | 1Rx8                      | TLRED48G2800HC16CDC01       | SS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 4GB     | 1Rx8                      | TDGED48G2800HC16CDC01       | SS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 2Rx8                      | TLRED432G2800HC16CQC01      | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 2Rx8                      | TDGED432G2800HC16CQC01      | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 2Rx8                      | THRD432G2800HC16CQC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 2Rx8                      | THWD432G2800HC16CQC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 2Rx8                      | THBD432G2800HC16CQC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 2Rx8                      | TLRED416G2800HC16CDC01      | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 2Rx8                      | TDGED416G2800HC16CDC01      | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 2Rx8                      | THRD416G2800HC16CDC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 2Rx8                      | THWD416G2800HC16CDC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 8GB     | 2Rx8                      | THBD416G2800HC16CDC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 16GB    | 2Rx8                      | THRD464G2800HC16CQC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 16GB    | 2Rx8                      | THWD464G2800HC16CQC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 16GB    | 2Rx8                      | THBD464G2800HC16CQC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 16GB    | 2Rx8                      | THRD432G2800HC16CDC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 16GB    | 2Rx8                      | THWD432G2800HC16CDC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Team            | 16GB    | 2Rx8                      | THBD432G2800HC16CDC01       | DS    |            |           | 16-18-18-38 | 1.2v    | v                     | v | v | v   | 2133   |
| Neo Forza       | 8GB     | 1Rx8                      | NMUD480E82-2800EB30         | SS    | Hynix      |           | 19-26-26-46 | 1.2v    | v                     | v | v | v   | 2133   |
| Neo Forza       | 8GB     | 1Rx8                      | NMUD480E82-2800EA30         | SS    | Hynix      |           | 19-26-26-46 | 1.2v    | v                     | v | v | v   | 2133   |
| Neo Forza       | 8GB     | 1Rx8                      | NMUD480E82-2800EC30         | SS    | Hynix      |           | 19-26-26-46 | 1.2v    | v                     | v | v | v   | 2133   |
| Neo Forza       | 8GB     | 1Rx8                      | NMUD480E82-2800ED30         | SS    | Hynix      |           | 19-26-26-46 | 1.2v    | v                     | v | v | v   | 2133   |
| Neo Forza       | 16GB    | 2Rx8                      | NMUD416E82-2800EB30         | DS    | Hynix      |           | 19-26-26-46 | 1.2v    | v                     | v | v | v   | 2133   |
| Neo Forza       | 16GB    | 2Rx8                      | NMUD416E82-2800EA30         | DS    | Hynix      |           | 19-26-26-46 | 1.2v    | v                     | v | v | v   | 2133   |
| Neo Forza       | 16GB    | 2Rx8                      | NMUD416E82-2800EC30         | DS    | Hynix      |           | 19-26-26-46 | 1.2v    | v                     | v | v | v   | 2133   |
| Neo Forza       | 16GB    | 2Rx8                      | NMUD416E82-2800EC30         | DS    | Hynix      |           | 19-26-26-46 | 1.2v    | v                     | v | v | v   | 2133   |

**DDR4 2666MHz**

| Module Supplier | Density | # of Ranks x DRAM devices | Module P/N.     | SS/DS | Chip Brand | Chip P/N. | Timing | Voltage | Memory socket support |   |   | XMP | Native |
|-----------------|---------|---------------------------|-----------------|-------|------------|-----------|--------|---------|-----------------------|---|---|-----|--------|
|                 |         |                           |                 |       |            |           |        |         | 1                     | 2 | 4 |     |        |
| HyperX          | 4GB     | 1Rx8                      | HX426C15FBK4/16 | SS    | SKhynix    |           | CL15   | 1.2v    | v                     | v | v | v   | 2666   |
| HyperX          | 4GB     | 1Rx8                      | HX426C15FBK2/8  | SS    | SKhynix    |           | CL15   | 1.2v    | v                     | v | v | v   | 2666   |

|          |      |      |                              |    |         |             |             |      |   |   |   |   |      |
|----------|------|------|------------------------------|----|---------|-------------|-------------|------|---|---|---|---|------|
| HyperX   | 4GB  | 1Rx8 | HX426C15FB/4                 | SS | SKhynix |             | CL15        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 4GB  | 1Rx8 | HX426C15FBK4/16              | SS | Micron  |             | CL15        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 4GB  | 1Rx8 | HX426C15FBK2/8               | SS | Micron  |             | CL15        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 4GB  | 1Rx8 | HX426C15FB/4                 | SS | Micron  |             | CL15        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C13PB3K4/32             | SS | Hynix   |             | CL13        | 1.35 | v | v | v | v | 2400 |
| HyperX   | 8GB  | 1Rx8 | HX426C13PB3K2/16             | SS | Hynix   |             | CL13        | 1.35 | v | v | v | v | 2400 |
| HyperX   | 8GB  | 1Rx8 | HX426C13PB3/8                | SS | Hynix   |             | CL13        | 1.35 | v | v | v | v | 2400 |
| HyperX   | 8GB  | 2Rx8 | HX426C15FBK4/32              | DS | Micron  |             | CL15        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 8GB  | 2Rx8 | HX426C15FBK2/16              | DS | Micron  |             | CL15        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 8GB  | 2Rx8 | HX426C15FB/8                 | DS | Micron  |             | CL15        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FB2K4/32             | SS | Hynix   |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FB2K2/16             | SS | Hynix   |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FB2/8                | SS | Hynix   |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FB2K4/32             | SS | Micron  |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FB2K2/16             | SS | Micron  |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FB2/8                | SS | Micron  |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FB2K2/16             | SS | Nanya   | 16-18-18-39 | 1.2v        | v    | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FB2/8                | SS | Nanya   | 16-18-18-39 | 1.2v        | v    | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FR2K2/16             | SS | Nanya   | 16-18-18-39 | 1.2v        | v    | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FR2/8                | SS | Nanya   | 16-18-18-39 | 1.2v        | v    | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FW2K2/16             | SS | Nanya   | 16-18-18-39 | 1.2v        | v    | v | v | v | v | 2666 |
| HyperX   | 8GB  | 1Rx8 | HX426C16FW2/8                | SS | Nanya   | 16-18-18-39 | 1.2v        | v    | v | v | v | v | 2666 |
| HyperX   | 16GB | 2Rx8 | HX426C13PB3K4/64             | DS | Hynix   |             | CL13        | 1.35 | v | v | v | v | 2400 |
| HyperX   | 16GB | 2Rx8 | HX426C13PB3K2/32             | DS | Hynix   |             | CL13        | 1.35 | v | v | v | v | 2400 |
| HyperX   | 16GB | 2Rx8 | HX426C13PB3/16               | DS | Hynix   |             | CL13        | 1.35 | v | v | v | v | 2400 |
| HyperX   | 16GB | 2Rx8 | HX426C16FBK4/64              | DS | Hynix   |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 16GB | 2Rx8 | HX426C16FBK2/32              | DS | Hynix   |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 16GB | 2Rx8 | HX426C16FBK/16               | DS | Hynix   |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 16GB | 2Rx8 | HX426C16FWK4/64              | DS | Hynix   |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 16GB | 2Rx8 | HX426C16FWK2/32              | DS | Hynix   |             | CL16        | 1.2v | v | v | v | v | 2666 |
| HyperX   | 16GB | 2Rx8 | HX426C16FWK/16               | DS | Hynix   |             | CL16        | 1.2v | v | v | v | v | 2666 |
| Kingston | 8GB  | 1Rx8 | KVR26N19S8/8                 | SS | Micron  |             | CL19        | 1.2v | v | v | v | v | 2666 |
| Kingston | 8GB  | 1Rx8 | KVR26N19S8/8                 | SS | Micron  |             | CL19        | 1.2v | v | v | v | v | 2666 |
| Kingston | 16GB | 2Rx8 | KVR26N19D8/16                | DS | Micron  |             | CL19        | 1.2v | v | v | v | v | 2666 |
| Kingston | 16GB | 2Rx8 | KVR26N19D8/16                | DS | Micron  |             | CL19        | 1.2v | v | v | v | v | 2666 |
| CORSAIR  | 4GB  | 1Rx8 | CMD8GX4M2A2666C15            | SS |         |             | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 4GB  | 1Rx8 | CMK16GX4M4A2666C16 ver 3.21  | SS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 4GB  | 1Rx8 | CMK16GX4M4A2666C16B ver 3.21 | SS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 4GB  | 1Rx8 | CMK16GX4M4A2666C16R ver 3.21 | SS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 4GB  | 1Rx8 | CMD16GX4M4A2666C12 ver 5.20  | SS | Hynix   |             | 12-14-14-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 4GB  | 1Rx8 | CMV4GX4M1A2666C18            | SS |         |             | 18-18-18-43 | 1.2v | v | v | v | v | 2666 |
| CORSAIR  | 4GB  | 1Rx8 | CMK8GX4M2A2666C16 ver3.22    | SS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMK16GX4M2A2666C16 ver4.23   | DS | Samsung |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMK16GX4M2A2666C16R ver4.23  | DS | Samsung |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMK16GX4M2A2666C16W ver4.23  | DS | Samsung |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMD16GX4M2A2666C15 ver4.23   | DS | Samsung |             | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMK64GX4M8A2666C16           | DS | Samsung |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMU32GX4M4A2666C16 ver3.21   | DS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMU32GX4M4A2666C16R ver3.21  | DS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMK32GX4M4A2666C16 ver3.21   | DS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMK32GX4M4A2666C16B ver3.21  | DS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMK32GX4M4A2666C16R ver .21  | DS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 2Rx8 | CMK32GX4M4A2666C16W ver3.21  | DS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMU32GX4M4A2666C16 ver5.30   | SS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMU32GX4M4A2666C16R ver5.30  | SS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMK32GX4M4A2666C16 ver5.30   | SS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMK32GX4M4A2666C16B ver5.30  | SS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMK32GX4M4A2666C16R ver5.30  | SS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMK32GX4M4A2666C16W ver5.30  | SS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMK16GX4M2A2666C16 ver5.30   | DS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMK16GX4M2A2666C16R ver5.30  | DS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMK16GX4M2A2666C16W ver5.30  | DS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMR64GX4M8A2666C16 ver5.30   | SS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMR64GX4M2A2666C16 ver5.30   | SS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMK16GX4M2D2666C16 ver4.21   | SS | Samsung |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 8GB  | 1Rx8 | CMV8GX4M1A2666C18            | SS |         |             | 18-18-18-43 | 1.2v | v | v | v | v | 2666 |
| CORSAIR  | 16GB | 2Rx8 | CMK32GX4M2A2666C16           | DS |         |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMK32GX4M2A2666C16R          | DS |         |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMK32GX4M2A2666C16W          | DS |         |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMK64GX4M4A2666C16 ver 4.31  | DS | Samsung |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMK64GX4M4A2666C16W ver 4.31 | DS | Samsung |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMD128GX4M8A2666C15          | DS | Samsung |             | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMK32GX4M2A2666C16R          | DS |         |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMU64GX4M4A2666C16           | DS |         |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMD64GX4M4A2666C15           | DS |         |             | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMK64GX4M4A2666C16 ver3.31   | DS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMK64GX4M4A2666C16W ver3.31  | DS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMK16GX4M1A2666C16 ver5.39   | DS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMK128GX4M8A2666C16 ver5.39  | DS | Hynix   |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 16GB | 2Rx8 | CMV16GX4M1A2666C18           | DS |         |             | 18-18-18-43 | 1.2v | v | v | v | v | 2666 |
| CORSAIR  | 16GB | 2Rx8 | CMK128GX4M8A2666C16 ver3.32  | DS | Micron  |             | 16-18-18-35 | 1.2v | v | v | v | v | 2133 |
| CORSAIR  | 32GB | 2Rx8 | CMK128GX4M4A2666C16          | DS | Micron  |             | C16         | 1.2v | v | v | v | v | 2666 |
| GIGABYTE | 8GB  | 1Rx8 | GR26C16S8K2SU416             | SS |         |             | 19-19-19-43 | 1.2v | v | v | v | v | 2666 |



|          |      |       |                              |    |         |  |             |       |   |   |   |   |      |
|----------|------|-------|------------------------------|----|---------|--|-------------|-------|---|---|---|---|------|
| ADATA    | 4GB  | 1Rx8  | AD4U2666W4G19-B              | SS | spectek |  | C19         | 1.2v  | v | v | v |   | 2666 |
| ADATA    | 8GB  | 1Rx8  | AX4U266638G16-BRS            | SS | Hynix   |  | 16-16-16    | 1.2v  | v | v |   | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AX4U266638G16-SRS            | SS | Hynix   |  | 16-16-16    | 1.2v  | v | v |   | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AX4U266638G16-DRS            | SS | Hynix   |  | 16-16-16    | 1.2v  | v | v |   | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AX4U266638G16-QRS            | SS | Hynix   |  | 16-16-16    | 1.2v  | v | v |   | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AD4U266638G19-B              | SS | spectek |  | C19         | 1.2v  | v | v | v |   | 2666 |
| ADATA    | 8GB  | 1Rx8  | AX4U266638G16-BRZ            | SS | Nanya   |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2666 |
| ADATA    | 8GB  | 1Rx8  | AD4U266638G19-B              | SS | Nanya   |  | C19         | 1.2v  | v | v | v |   | 2666 |
| ADATA    | 8GB  | 1Rx8  | AX4U266638G16-BRS            | SS | Nanya   |  | 16-16-16    | 1.2   | v | v | v | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AX4U266638G16-SRS            | SS | Nanya   |  | 16-16-16    | 1.2   | v | v | v | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AX4U266638G16-DRS            | SS | Nanya   |  | 16-16-16    | 1.2   | v | v | v | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AX4U266638G16-QRS            | SS | Nanya   |  | 16-16-16    | 1.2   | v | v | v | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AD4U266638G-S                | SS | Hynix   |  | 19-19-19-43 | 1.2   | v | v | v | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AD4U266638G-R                | SS | Hynix   |  | 19-19-19-43 | 1.2   | v | v | v | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AD4U266638G-D                | SS | Hynix   |  | 19-19-19-43 | 1.2   | v | v | v | v | 2133 |
| ADATA    | 8GB  | 1Rx8  | AD4U266638G19-B              | SS | spectek |  | 19-19-19-43 | 1.2   | v | v | v |   | 2666 |
| ADATA    | 8GB  | 1Rx8  | AD4U266638G19-S              | SS | spectek |  | 19-19-19-43 | 1.2   | v | v | v |   | 2666 |
| ADATA    | 8GB  | 1Rx8  | AD4U266638G19-R              | SS | spectek |  | 19-19-19-43 | 1.2   | v | v | v |   | 2666 |
| ADATA    | 8GB  | 1Rx8  | AD4U266638G19-D              | SS | spectek |  | 19-19-19-43 | 1.2   | v | v | v |   | 2666 |
| ADATA    | 16GB | 2Rx8  | AD4U2666316G19-B             | SS |         |  | C19         | 1.2v  | v | v | v |   | 2666 |
| ADATA    | 32GB | 2Rx8  | AD4U2666732G19-B             | DS | spectek |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| Apacer   | 4GB  | 1Rx8  | AHU04GGB26CDT6H              | SS |         |  | 16-16-16-36 | 1.2v  | v | v | v | v | 2133 |
| Apacer   | 8GB  | 2Rx8  | AHU08GGB26CDT6H              | DS |         |  | 16-16-16-36 | 1.2v  | v | v | v | v | 2133 |
| Apacer   | 8GB  | 1Rx8  | AU08GGB26CQYBGH              | SS |         |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| Apacer   | 8GB  | 1Rx16 | AU08GGB26CQABGH              | SS |         |  | 19-19-19-43 | 1.2v  | v | v | v | v | 2400 |
| ANACOMDA | 16GB | 2Rx8  | DDR4 2666 16GB               | DS |         |  | 19-19-19-43 | 1.2v  | v | v |   |   | 2666 |
| CRUCIAL  | 4GB  | 1Rx8  | BLT4G4D26AFTA.8FADG          | SS |         |  | 16-17-17-36 | 1.2v  | v | v | v | v | 2400 |
| CRUCIAL  | 4GB  | 1Rx8  | BLE4G4D26AFEA.8FADG          | SS |         |  | 16-17-17-36 | 1.2v  | v | v | v | v | 2400 |
| CRUCIAL  | 4GB  | 1Rx8  | BLS4G4D26BFSC.8FBR2          | SS |         |  | 16-18-18-38 | 1.2v  | v | v | v | v | 2666 |
| CRUCIAL  | 8GB  | 2Rx8  | BLT8G4D26AFTA.16FAD          | DS | Micron  |  | 16-17-17-36 | 1.2v  | v | v | v | v | 2400 |
| CRUCIAL  | 8GB  | 2Rx8  | BLS8G4D26BFSC.16FBR2         | DS |         |  | 16-18-18-38 | 1.2v  | v | v | v | v | 2666 |
| CRUCIAL  | 8GB  | 1Rx8  | MTA8ATF1G64AZ-2G6E1          | SS | Micron  |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| CRUCIAL  | 16GB | 2Rx8  | BLS16G4D26BFSC.16FBD         | DS |         |  | 16-18-18-38 | 1.2v  | v | v | v | v | 2666 |
| CRUCIAL  | 16GB | 2Rx8  | CT16G4WFD8266                | DS |         |  | CL19        | 1.2v  | v | v | v |   | 2666 |
| CRUCIAL  | 16GB | 2Rx8  | MTA16ATF2G64AZ-2G6E1         | DS | Micron  |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| GEIL     | 8GB  | 1Rx8  | GAEXW416GB2666C16ADC         | SS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| GEIL     | 16GB | 2Rx8  | GAEXW432GB2666C16ADC         | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| GEIL     | 16GB | 2Rx8  | GAEXY432GB2666C16ADC         | DS |         |  | 16-18-18-36 | 1.35v | v | v | v | v | 2133 |
| PATRIOT  | 4GB  | 1Rx8  | PVE48G2666C6KBL              | SS |         |  | CL16        | 1.2v  | v | v | v | v | 2133 |
| PATRIOT  | 8GB  | 2Rx8  | PVE416G2666C6KBL             | DS |         |  | CL16        | 1.2v  | v | v | v | v | 2133 |
| PATRIOT  | 8GB  | 1Rx8  | PVR416G2666C5KW              | SS |         |  | CL15        | 1.2v  | v | v | v | v | 2133 |
| PATRIOT  | 8GB  | 1Rx8  | PVR416G2666C5K               | SS |         |  | CL15        | 1.2v  | v | v | v | v | 2133 |
| Panram   | 8GB  | 1Rx8  | W4U2666PS-8G                 | SS |         |  | CL16        | 1.2v  | v | v | v |   | 2666 |
| Panram   | 16GB | 2Rx8  | W4U2666PS-16G                | DS |         |  | CL16        | 1.2v  | v | v | v |   | 2666 |
| KLEVV    | 4GB  | 1Rx8  | KM4Z4GX1N-2666-15-15-15-35-1 | SS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2400 |
| KLEVV    | 8GB  | 1Rx8  | KM4Z8GX1N-2666-15-15-15-35-1 | SS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2400 |
| KLEVV    | 16GB | 2Rx8  | KM4Z16X1N-2666-15-15-15-35-1 | DS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2400 |
| Samsung  | 32GB | 2Rx8  | M378A4G43MB1-CTD             | DS | Samsung |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| Team     | 4GB  | 1Rx8  | TLRED416G2666HC15BQC01       | SS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 4GB  | 1Rx8  | TDGED416G2666HC15BQC01       | SS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 4GB  | 1Rx8  | TLRED48G2666HC15BDC01        | SS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 4GB  | 1Rx8  | TDGED48G2666HC15BDC01        | SS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 4GB  | 1Rx8  | TED416G2666C19QC01           | SS |         |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| Team     | 4GB  | 1Rx8  | TED48G2666C19DC01            | SS |         |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| Team     | 4GB  | 1Rx8  | TED44G2666C1901              | SS |         |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| Team     | 8GB  | 2Rx8  | TLRED432G2666HC15BQC01       | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | TDGED432G2666HC15BQC01       | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | THRD432G2666HC15BQC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | THWD432G2666HC15BQC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | THBD432G2666HC15BQC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | TLRED416G2666HC15BDC01       | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | TDGED416G2666HC15BDC01       | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | THRD416G2666HC15BDC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | THWD416G2666HC15BDC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | THBD416G2666HC15BDC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TED432G2666C19QC01           | SS |         |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| Team     | 8GB  | 1Rx8  | TED416G2666C19DC01           | SS |         |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| Team     | 8GB  | 1Rx8  | TED48G2666C1901              | SS |         |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| Team     | 16GB | 2Rx8  | THRD464G2666HC15BQC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | THWD464G2666HC15BQC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | THBD464G2666HC15BQC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | THRD432G2666HC15BDC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | THWD432G2666HC15BDC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | THBD432G2666HC15BDC01        | DS |         |  | 15-17-17-35 | 1.2v  | v | v | v | v | 2133 |
| tigo     | 8GB  | 1Rx8  | TMKU8G868-2666V              | SS |         |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |
| tigo     | 16GB | 2Rx8  | TMKU16GF68-2666V             | DS |         |  | 19-19-19-43 | 1.2v  | v | v | v |   | 2666 |

**DDR4 2400MHz**

| Module Supplier | Density | # of Ranks x DRAM devices | Module P/N.      | SS/DS | Chip Brand | Chip P/N. | Timing | Voltage | Memory socket support |   |   | XMP | Native |
|-----------------|---------|---------------------------|------------------|-------|------------|-----------|--------|---------|-----------------------|---|---|-----|--------|
|                 |         |                           |                  |       |            |           |        |         | 1                     | 2 | 4 |     |        |
| HyperX          | 8GB     | 2Rx8                      | HX424C15FB/8     | DS    | SKhynix    |           | C15    | 1.2v    | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                      | HX424C15FB2K4/32 | SS    |            |           | C15    | 1.2v    | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 1Rx8                      | HX424C15FB2K2/16 | SS    |            |           | C15    | 1.2v    | v                     | v | v | v   | 2133   |

|             |      |       |                                |    |         |  |             |       |   |   |   |   |      |
|-------------|------|-------|--------------------------------|----|---------|--|-------------|-------|---|---|---|---|------|
| HyperX      | 8GB  | 1Rx8  | HX424C15FB2/8                  | SS |         |  | C15         | 1.2v  | v | v | v | v | 2133 |
| HyperX      | 8GB  | 1Rx8  | HX424C12PB3K4/32               | SS | Hynix   |  | CL12        | 1.35  | v | v | v | v | 2400 |
| HyperX      | 8GB  | 1Rx8  | HX424C12PB3K2/16               | SS | Hynix   |  | CL12        | 1.35  | v | v | v | v | 2400 |
| HyperX      | 8GB  | 1Rx8  | HX424C12PB3/8                  | SS | Hynix   |  | CL12        | 1.35  | v | v | v | v | 2400 |
| HyperX      | 16GB | 2Rx8  | HX424C15FBK4/64                | DS |         |  | C15         | 1.2v  | v | v | v | v | 2133 |
| HyperX      | 16GB | 2Rx8  | HX424C15FBK2/32                | DS |         |  | C15         | 1.2v  | v | v | v | v | 2133 |
| HyperX      | 16GB | 2Rx8  | HX424C15FB/16                  | DS |         |  | C15         | 1.2v  | v | v | v | v | 2133 |
| HyperX      | 16GB | 2Rx8  | HX424C12PB3K4/64               | DS | Hynix   |  | CL12        | 1.35  | v | v | v | v | 2400 |
| HyperX      | 16GB | 2Rx8  | HX424C12PB3K2/32               | DS | Hynix   |  | CL12        | 1.35  | v | v | v | v | 2400 |
| HyperX      | 16GB | 2Rx8  | HX424C12PB3/16                 | DS | Hynix   |  | CL12        | 1.35  | v | v | v | v | 2400 |
| Kingston    | 8GB  | 2Rx8  | KVR24N17D8/8                   | DS | Micron  |  | CL17        | 1.2v  | v | v | v |   | 2400 |
| Kingston    | 8GB  | 1Rx8  | KVR24N17S8/8                   | SS | Micron  |  | CL17        | 1.2v  | v | v | v |   | 2400 |
| Kingston    | 16GB | 2Rx8  | KVR24N17D8/16                  | DS | Micron  |  | CL17        | 1.2v  | v | v | v |   | 2400 |
| CORSAIR     | 4GB  | 1Rx8  | CMK8GX4M2D2400C14 ver3.11      | SS | Micron  |  | 14-16-16-31 | 1.2v  | v | v |   | v | 2133 |
| CORSAIR     | 8GB  | 1Rx8  | CMD64GX4M8A2400C14 ver4.24     | SS | Samsung |  | 14-16-16-31 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 8GB  | 2Rx8  | CMK64GX4M8A2400C14             | DS |         |  | 14-16-16-31 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 8GB  | 2Rx8  | CMK32GX4M4A2400C16             | SS |         |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 8GB  | 2Rx8  | CMK32GX4M4A2400C16R            | SS |         |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 8GB  | 1Rx8  | CMK16GX4M2A2400C16             | SS |         |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 8GB  | 1Rx8  | CMK16GX4M2A2400C16R            | SS |         |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 8GB  | 2Rx8  | CMD32GX4M4A2400C12             | DS |         |  | 12-14-14-28 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 8GB  | 2Rx8  | CMK32GX4M4A2400C12             | DS |         |  | 12-14-14-28 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 8GB  | 1Rx8  | CMK16GX4M2Z2400C16 ver3.31     | SS | Micron  |  | 16-16-16-39 | 1.2v  | v | v | v |   | 2133 |
| CORSAIR     | 8GB  | 1Rx8  | CMK16GX4M2A2400C16 ver5.30     | SS | Hynix   |  | 16-16-16-39 | 1.2v  | v | v |   | v | 2133 |
| CORSAIR     | 8GB  | 1Rx8  | CMK32GX4M4A2400C14 ver3.31     | SS | Micron  |  | 14-16-16-31 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 8GB  | 1Rx8  | CMK16GX4M2D2400C14 ver4.21     | SS | Samsung |  | 14-16-16-31 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 16GB | 2Rx8  | CMK128GX4M8A2400C14            | DS |         |  | 14-16-16-31 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 16GB | 2Rx8  | CMK64GX4M4A2400C14             | DS |         |  | 14-16-16-31 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 16GB | 2Rx8  | CMD128GX4M8A2400C14            | DS |         |  | 14-16-16-31 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 16GB | 2Rx8  | CMK128GX4M8A2400C14 ver5.30    | DS | Hynix   |  | 14-16-16-31 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 16GB | 2Rx8  | CMK64GX4M4A2400C16 ver3.32     | DS | Micron  |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2133 |
| CORSAIR     | 32GB | 2Rx8  | CMK64GX4M2A2400C16 ver3.44     | DS | Micron  |  | 16-16-16-39 | 1.2v  | v | v |   |   | 2400 |
| G.SKILL     | 8GB  | 2Rx8  | F4-2400C15Q2-64GRK             | DS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2133 |
| G.SKILL     | 16GB | 2Rx8  | F4-2400C15Q2-128GRK            | DS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2133 |
| GALAX       | 8GB  | 2Rx8  | GAM4MRR2BSR2400D16JE081C       | DS |         |  | 16-16-16-36 | 1.2   | v | v | v | v | 2133 |
| GALAX       | 16GB | 2Rx8  | GALAX D4-2400 16G C17          | DS |         |  | 17-17-17-39 | 1.2   | v | v | v |   | 2400 |
| ADATA       | 4GB  | 1Rx8  | AD4U2400W4G17-B                | SS | Hynix   |  | 17-17-17-39 | 1.2v  | v | v |   |   | 2400 |
| ADATA       | 4GB  | 1Rx8  | AD4U2400W4G17-B                | SS | PSC     |  | 17-17-17-39 | 1.2v  | v | v | v |   | 2400 |
| ADATA       | 8GB  | 1Rx8  | AX4U240038G16-BRZ              | SS | Hynix   |  | 16-16-16    | 1.2v  | v | v | v | v | 2133 |
| ADATA       | 8GB  | 1Rx8  | AX4U240038G16-DRZ              | SS | Hynix   |  | 16-16-16    | 1.2v  | v | v | v | v | 2133 |
| ADATA       | 8GB  | 1Rx8  | AX4U240038G16-QRZ              | SS | Hynix   |  | 16-16-16    | 1.2v  | v | v | v | v | 2133 |
| ADATA       | 16GB | 2Rx8  | AX4U2400316G16-BRZ             | DS | Hynix   |  | 16-16-16    | 1.2v  | v | v | v | v | 2133 |
| ADATA       | 16GB | 2Rx8  | AX4U2400316G16-DRZ             | DS | Hynix   |  | 16-16-16    | 1.2v  | v | v | v | v | 2133 |
| ADATA       | 16GB | 2Rx8  | AX4U2400316G16-QRZ             | DS | Hynix   |  | 16-16-16    | 1.2v  | v | v | v | v | 2133 |
| Apacer      | 8GB  | 2Rx8  | AU08GGB24CETBGC                | DS |         |  | CL17        | 1.2v  | v | v | v |   | 2400 |
| Apacer      | 8GB  | 1Rx8  | AHU08GGB24CDU7G                | SS |         |  | 16-16-16-36 | 1.2v  | v | v | v | v | 2133 |
| Apacer      | 8GB  | 1Rx8  | AU08GGB24CEYBGC                | SS |         |  | CL17        | 1.2v  | v | v | v | v | 2400 |
| Apacer      | 8GB  | 1Rx8  | AHU08GGB24CDU7S (EK.08G2T.GEJ) | SS |         |  | 16-16-16-36 | 1.2v  | v | v |   | v | 2400 |
| Apacer      | 16GB | 2Rx8  | AHU16GGB24CDU7V                | DS |         |  | 16-16-16-36 | 1.2v  | v | v | v | v | 2133 |
| Antec       | 8GB  | 1Rx8  | AMD4UZ124001508G-3S            | SS | Samsung |  | 15-15-15-39 | 1.2v  | v | v | v |   | 2400 |
| CRUCIAL     | 4GB  | 1Rx8  | BLS4G4D240FSB.8FADG            | SS | Micron  |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2400 |
| CRUCIAL     | 8GB  | 2Rx8  | BLS8G4D240FSB.16FARG           | DS | Micron  |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2400 |
| CRUCIAL     | 8GB  | 2Rx8  | BLS8G4D240FSA.16FARG           | DS | Micron  |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2400 |
| CRUCIAL     | 8GB  | 1Rx8  | CT8G4DFS824A.8FB1              | SS | Micron  |  | CL17        | 1.2v  | v | v | v |   | 2400 |
| CRUCIAL     | 8GB  | 2Rx8  | CT8G4WFD824A.18FB1             | DS | Micron  |  | CL17        | 1.2v  | v | v | v |   | 2400 |
| CRUCIAL     | 8GB  | 2Rx8  | BLS8G4D240FSB.16FAR            | DS | Micron  |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2400 |
| CRUCIAL     | 16GB | 2Rx8  | BLS16G4D240FSB.16FAD           | DS | Micron  |  | 16-16-16-39 | 1.2v  | v | v | v | v | 2400 |
| CRUCIAL     | 16GB | 2Rx8  | CT16G4DFD824A.16FB1            | DS | Micron  |  | CL17        | 1.2v  | v | v | v |   | 2400 |
| CRUCIAL     | 16GB | 2Rx8  | CT16G4WFD824A.18FB1            | DS | Micron  |  | CL17        | 1.2v  | v | v |   |   | 2400 |
| GEIL        | 4GB  | 1Rx8  | GPR48GB2400C16DC               | SS |         |  | 16-16-16-36 | 1.2v  | v | v | v | v | 2133 |
| GEIL        | 8GB  | 2Rx16 | GLR432GB2400C15QC              | DS |         |  | C15         | 1.2v  | v | v | v | v | 2400 |
| GEIL        | 8GB  | 2Rx16 | GLW432GB2400C15QC              | DS |         |  | C15         | 1.2v  | v | v | v | v | 2400 |
| GEIL        | 8GB  | 2Rx16 | GLB416GB2400C15DC              | DS |         |  | C15         | 1.2v  | v | v | v | v | 2400 |
| GEIL        | 8GB  | 2Rx16 | GPR48GB2400C15SC               | DS |         |  | C15         | 1.2v  | v | v | v | v | 2400 |
| GEIL        | 8GB  | 1Rx16 | GFY416GB2400C16DC              | SS |         |  | 16-16-16-36 | 1.2v  | v | v | v | v | 2133 |
| GEIL        | 8GB  | 1Rx8  | GAPB416GB2400C16DC             | SS |         |  | 16-16-16-36 | 1.2v  | v | v | v | v | 2133 |
| GEIL        | 8GB  | 1Rx8  | GLS416GB2400C16DC              | SS |         |  | 16-16-16-36 | 1.2v  |   |   | v | v | 2133 |
| GEIL        | 16GB | 2Rx8  | GPR432GB2400C16QC              | DS |         |  | 16-16-16-36 | 1.2v  | v | v |   | v | 2133 |
| GALAX       | 4GB  | 1Rx8  | GAM4BXLBS240016JE164C          | SS |         |  | 16-16-16-36 | 1.2v  | v | v | v | v | 2133 |
| GALAX       | 4GB  | 1Rx8  | HOF4BLBM240012FD041C           | SS |         |  | 12-12-12-28 | 1.35v | v | v | v | v | 2133 |
| GLOWAY      | 8GB  | 2Rx8  | 8G-2400                        | DS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2133 |
| HYUNDAI.Inc | 4GB  | 1Rx8  | HYE4G24C17                     | SS |         |  | 17-17-17-39 | 1.2v  | v | v | v |   | 2400 |
| HYUNDAI.Inc | 8GB  | 1Rx8  | HYE8G24C17                     | SS |         |  | 17-17-17-39 | 1.2v  | v | v | v |   | 2400 |
| HYUNDAI.Inc | 16GB | 2Rx8  | HYE16G24C17                    | DS |         |  | 17-17-17-39 | 1.2v  | v | v | v |   | 2400 |
| KLEVV       | 4GB  | 1Rx8  | KM4B4GX1N-2400-15-15-15-35-0   | SS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2400 |
| KLEVV       | 4GB  | 1Rx8  | KM4Z4GX1N-2400-15-15-15-35-1   | SS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2400 |
| KLEVV       | 8GB  | 1Rx8  | KM4B8GX1N-2400-15-15-15-35-0   | SS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2400 |
| KLEVV       | 8GB  | 1Rx8  | KM4Z8GX1N-2400-15-15-15-35-1   | SS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2400 |
| KLEVV       | 16GB | 2Rx8  | KM4B16X1N-2400-15-15-15-35-0   | DS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2400 |
| KLEVV       | 16GB | 2Rx8  | KM4Z16X1N-2400-15-15-15-35-0   | DS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2400 |
| KINGMAX     | 4GB  | 1Rx16 | GLLF62F-DAKZIG CLBU Z11C       | SS | Spectek |  | 17-17-17-39 | 1.2v  | v | v | v |   | 2400 |
| KINGMAX     | 4GB  | 1Rx16 | GLLF62F-DAKZIG CLBU Z11B       | SS | Spectek |  | 17-17-17-39 | 1.2v  | v | v | v |   | 2400 |
| KINGMAX     | 16GB | 2Rx8  | GLLH22F-18K1A CFBU2 Z11B       | DS | Spectek |  | 17-17-17-39 | 1.2v  | v | v | v |   | 2400 |

|          |      |       |                        |    |         |  |             |      |   |   |   |   |      |
|----------|------|-------|------------------------|----|---------|--|-------------|------|---|---|---|---|------|
| PATRIOT  | 4GB  | 1Rx8  | PVE48G240C5KRD         | SS |         |  | CL15        | 1.2v | v | v | v | v | 2133 |
| PATRIOT  | 8GB  | 1Rx8  | PVE416G240C5KRD        | SS |         |  | CL15        | 1.2v | v | v | v | v | 2133 |
| PATRIOT  | 8GB  | 1Rx8  | PSD48G240081           | SS |         |  | CL17        | 1.2v | v | v | v |   | 2400 |
| PATRIOT  | 16GB | 2Rx8  | PSD416G24002           | DS |         |  | CL17        | 1.2v | v | v | v |   | 2400 |
| Team     | 8GB  | 2Rx8  | TED432G2400C16QC01     | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 8GB  | 2Rx8  | TPRD432G2400HC16QC01   | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 8GB  | 2Rx8  | TPD432G2400HC16QC01    | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 8GB  | 2Rx8  | TED416G2400C16DC01     | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 8GB  | 2Rx8  | TPRD416G2400HC16DC01   | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 8GB  | 2Rx8  | TPD416G2400HC16DC01    | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 8GB  | 2Rx8  | TED48G2400C1601        | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 8GB  | 2Rx8  | TPRD48G2400HC1601      | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 8GB  | 2Rx8  | TPD48G2400HC1601       | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 8GB  | 2Rx8  | TDTRD416G2400HC15ADC01 | DS |         |  | 15-15-15-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | TDTWD416G2400HC15ADC01 | DS |         |  | 15-15-15-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | TDTBD416G2400HC15ADC01 | DS |         |  | 15-15-15-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | TDTRD48G2400HC15A01    | DS |         |  | 15-15-15-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | TDTWD48G2400HC15A01    | DS |         |  | 15-15-15-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 2Rx8  | TDTBD48G2400HC15A01    | DS |         |  | 15-15-15-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TLGD432G2400HC14QC01   | SS |         |  | 14-16-16-31 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TLRED432G2400HC14QC01  | SS |         |  | 14-16-16-31 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TLGD416G2400HC14DC01   | SS |         |  | 14-16-16-31 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TLRED416G2400HC14DC01  | SS |         |  | 14-16-16-31 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TLGD48G2400HC1401      | SS |         |  | 14-16-16-31 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TLRED48G2400HC1401     | SS |         |  | 14-16-16-31 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TF3D416G2400HC15BDC01  | SS |         |  | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TF4D416G2400HC15BDC01  | SS |         |  | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TF3D48G2400HC15B01     | SS |         |  | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 8GB  | 1Rx8  | TF4D48G2400HC15B01     | SS |         |  | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | TED464G2400C16QC01     | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 16GB | 2Rx8  | TPRD464G2400HC16QC01   | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 16GB | 2Rx8  | TPD464G2400HC16QC01    | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 16GB | 2Rx8  | TED432G2400C16DC01     | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 16GB | 2Rx8  | TPRD432G2400HC16DC01   | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 16GB | 2Rx8  | TPD432G2400HC16DC01    | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 16GB | 2Rx8  | TED416G2400C1601       | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 16GB | 2Rx8  | TPRD416G2400HC1601     | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 16GB | 2Rx8  | TPD416G2400HC1601      | DS |         |  | 16-16-16-39 | 1.2v | v | v | v |   | 2400 |
| Team     | 16GB | 2Rx8  | TDTRD464G2400HC15BQC01 | DS |         |  | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | TDTWD464G2400HC15BQC01 | DS |         |  | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | TDTBD464G2400HC15BQC01 | DS |         |  | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | TDTRD432G2400HC15BDC01 | DS |         |  | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | TDTWD432G2400HC15BDC01 | DS |         |  | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| Team     | 16GB | 2Rx8  | TDTBD432G2400HC15BDC01 | DS |         |  | 15-17-17-35 | 1.2v | v | v | v | v | 2133 |
| tigo     | 4GB  | 1Rx16 | TMKU4G456-2400U        | SS |         |  | 17-17-17-39 | 1.2v | v | v | v |   | 2400 |
| Panram   | 8GB  | 1Rx8  | PUD42400C158G4NJW      | SS |         |  | CL15        | 1.2v | v | v | v |   | 2400 |
| Samsung  | 4GB  | 1Rx16 | M378A5244CB0-CRC       | SS |         |  |             | 1.2v | v | v | v |   | 2400 |
| innodisk | 8GB  | 2Rx8  | M4C0-8GSSMCSJ          | DS | Samsung |  |             | 1.2v | v | v | v |   | 2400 |
| V-Color  | 8GB  | 1Rx8  | TC48G24S817            | SS |         |  | CL17        | 1.2v | v | v | v |   | 2400 |
| VISENTA  | 8GB  | 1Rx8  | DDR4 2400 8G           | SS |         |  | 17-17-17-40 | 1.2v | v | v | v |   | 2400 |
| VISENTA  | 16GB | 2Rx8  | DDR4 2400 16G          | DS |         |  | 15-15-15-35 | 1.2v | v | v | v |   | 2400 |
| Virtium  | 8GB  | 1Rx8  | VL37A1H63F-N7SC        | SS |         |  | 17-17-17-39 | 1.2v | v | v | v |   | 2400 |

DDR4 2133MHz

| Module Supplier | Density | # of Ranks x DRAM devices | Module P/N.           | SS/DS | Chip Brand | Chip P/N. | Timing      | Voltage | Memory socket support |   |   | XMP | Native |
|-----------------|---------|---------------------------|-----------------------|-------|------------|-----------|-------------|---------|-----------------------|---|---|-----|--------|
|                 |         |                           |                       |       |            |           |             |         | 1                     | 2 | 4 |     |        |
| HyperX          | 8GB     | 1Rx8                      | HX421C14FB2K4/32      | SS    |            |           | CL14        | 1.2v    | v                     | v | v |     | v      |
| HyperX          | 8GB     | 1Rx8                      | HX421C14FB2K2/16      | SS    |            |           | CL14        | 1.2v    | v                     | v | v |     | v      |
| HyperX          | 8GB     | 1Rx8                      | HX421C14FB2/8         | SS    |            |           | CL14        | 1.2v    | v                     | v | v |     | v      |
| HyperX          | 16GB    | 2Rx8                      | HX421C14FBK4/64       | DS    |            |           | CL14        | 1.2v    | v                     | v | v |     | v      |
| HyperX          | 16GB    | 2Rx8                      | HX421C14FBK2/32       | DS    |            |           | CL14        | 1.2v    | v                     | v | v |     | v      |
| HyperX          | 16GB    | 2Rx8                      | HX421C14FB/16         | DS    |            |           | CL14        | 1.2v    | v                     | v | v |     | v      |
| Kingston        | 4GB     | 1Rx8                      | KVR21E15S8/4          | SS    | SKhynix    |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| Kingston        | 8GB     | 2Rx8                      | KVR21N15D8/8          | DS    | SKhynix    |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| Kingston        | 8GB     | 2Rx8                      | KVR21E15D8/8HA        | DS    | SKhynix    |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| Kingston        | 16GB    | 2Rx8                      | KVR21N15D8/16         | DS    | Micron     |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| CORSAIR         | 4GB     | 1Rx8                      | CMD16GX4M4B2133C10    | SS    |            |           | 10-12-12-31 | 1.35v   | v                     | v | v | v   | v      |
| CORSAIR         | 8GB     | 2Rx8                      | CMK64GX4M8A2133C13    | DS    |            |           | 13-15-15-28 | 1.2v    | v                     | v | v |     | v      |
| CORSAIR         | 8GB     | 1Rx8                      | CMV8GX4M1A2133C15-ESS | SS    | Samsung    |           | C15         | 1.2v    | v                     | v | v |     | v      |
| CORSAIR         | 8GB     | 2Rx8                      | CMD32GX4M4B2133C10    | DS    |            |           | 10-12-12-31 | 1.35v   | v                     | v | v | v   | v      |
| CORSAIR         | 16GB    | 2Rx8                      | CMV16GX4M1A2133C15    | DS    |            |           | C15         | 1.2v    | v                     | v | v |     | v      |
| CORSAIR         | 16GB    | 2Rx8                      | CMK128GX4M8A2133C13   | DS    |            |           | 13-15-15-28 | 1.2v    | v                     | v | v | v   | v      |
| G.SKILL         | 8GB     | 1Rx8                      | F4-2133C15S-8GIS      | SS    |            |           | 15-15-15-35 | 1.2v    | v                     | v |   |     | v      |
| Apacer          | 4GB     | 1Rx8                      | AU04GGB13CDTBGH       | SS    |            |           | CL15        | 1.2v    | v                     | v |   |     | v      |
| Apacer          | 8GB     | 2Rx8                      | AU08GGB13CDYBGH       | DS    |            |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| CRUCIAL         | 4GB     | 1Rx8                      | CT4G4DFS8213.C8FAR1   | SS    | Micron     |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| CRUCIAL         | 4GB     | 1Rx8                      | CT4G4WFS8213.9FA1     | SS    | Micron     |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| CRUCIAL         | 4GB     | 1Rx8                      | CT4G4DFS8213.8FA2     | SS    | Micron     |           |             | 1.2v    | v                     | v | v |     | v      |
| CRUCIAL         | 8GB     | 2Rx8                      | CT8G4WFD8213          | DS    | Micron     |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| CRUCIAL         | 8GB     | 2Rx8                      | CT8G4DFD8213.16FA2    | DS    | Micron     |           |             | 1.2v    | v                     | v | v |     | v      |
| CRUCIAL         | 8GB     | 2Rx8                      | CT8G4DFD8213.C16FAR11 | DS    | Micron     |           |             | 1.2v    | v                     | v | v |     | v      |
| CRUCIAL         | 8GB     | 1Rx8                      | CT8G4DFS8213.8FB1     | SS    | Micron     |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| CRUCIAL         | 16GB    | 2Rx8                      | CT16G4DFD8213.16FB1   | DS    | Micron     |           | CL15        | 1.2v    | v                     | v | v |     | v      |

|         |      |      |                              |    |         |                  |             |      |   |   |   |   |      |
|---------|------|------|------------------------------|----|---------|------------------|-------------|------|---|---|---|---|------|
| GEIL    | 4GB  | 1Rx8 | GPR416GB2133C15QC            | SS |         |                  | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| GLOWAY  | 4GB  | 1Rx8 | 4G-2133                      | SS |         |                  | 15-15-15-35 | 1.2v | v | v | v | v | v    |
| KLEVV   | 4GB  | 1Rx8 | KM4B4GX1N-2133-15-15-15-35-0 | SS |         |                  | 15-15-15-35 | 1.2v | v | v | v | v | v    |
| KLEVV   | 8GB  | 1Rx8 | KM4B8GX1N-2133-15-15-15-35-0 | SS |         |                  | 15-15-15-35 | 1.2v | v | v | v | v | v    |
| KLEVV   | 16GB | 2Rx8 | KM4B16X1N-2133-15-15-15-35-0 | DS |         |                  | 15-15-15-35 | 1.2v | v | v | v | v | v    |
| Team    | 8GB  | 2Rx8 | TED432G2133C15QC01           | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 8GB  | 2Rx8 | TPRD432G2133HC15QC01         | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 8GB  | 2Rx8 | TPD432G2133HC15QC01          | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 8GB  | 2Rx8 | TED416G2133C15DC01           | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 8GB  | 2Rx8 | TPRD416G2133HC15DC01         | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 8GB  | 2Rx8 | TPD416G2133HC15DC01          | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 8GB  | 2Rx8 | TED48G2133C1501              | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 8GB  | 2Rx8 | TPRD48G2133HC1501            | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 8GB  | 2Rx8 | TPD48G2133HC1501             | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 16GB | 2Rx8 | TED464G2133C15QC01           | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 16GB | 2Rx8 | TPRD464G2133HC15QC01         | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 16GB | 2Rx8 | TPD464G2133HC15QC01          | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 16GB | 2Rx8 | TED432G2133C15DC01           | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 16GB | 2Rx8 | TPRD432G2133HC15DC01         | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 16GB | 2Rx8 | TPD432G2133HC15DC01          | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 16GB | 2Rx8 | TED416G2133C1501             | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 16GB | 2Rx8 | TPRD416G2133HC1501           | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Team    | 16GB | 2Rx8 | TPD416G2133HC1501            | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v | v | v    |
| Panram  | 8GB  | 1Rx8 | PUD42133C158G2VS             | SS |         |                  | CL15        | 1.2v | v | v | v | v | v    |
| Samsung | 8GB  | 1Rx8 | M378A1K43BB1-CPB             | SS |         |                  | 15-15-15-36 | 1.2v | v | v | v | v | 2133 |
| Samsung | 16GB | 2Rx8 | M378A2K43BB1-CPB             | DS |         |                  | 15-15-15-36 | 1.2v | v | v | v | v | 2133 |
| V-Color | 8GB  | 1Rx8 | TE48G21S815                  | SS | SKHynix |                  | CL15        | 1.2v | v | v | v | v | v    |
| V-Color | 8GB  | 1Rx8 | TC48G21S815-IMS              | SS |         |                  | CL15        | 1.2v | v | v | v | v | v    |
| V-Color | 16GB | 2Rx8 | TE416G21D815                 | DS | SKHynix |                  | CL15        | 1.2v | v | v | v | v | v    |

• 2 DIMM: Supports one pair of modules inserted into the same color slots as one pair of Dual-channel memory configuration. Install the modules into **DDR4\_A2, DDR4\_B2** for better compatibility.

2 DIMM: 請將兩支記憶體模組安裝在同樣顏色記憶體插槽以啟動雙通道設定，並優先安裝在**DDR4\_A2, DDR4\_B2**插槽以確保更好的相容性

• When running XMP at **DDR4 3200 MHz or higher**, the system's stability depends on the CPU's capabilities.

當執行XMP至**DDR4 3200MHz**或是**更高**，系統的穩定性會依據CPU的效能而有所差異

• Memory modules listed as above is for reference only. Due to massive memory models in market, we can only verify some of them.

以下所列的記憶體模組僅供參考，因市面上的記憶體模組眾多，我們無法一一驗證

• When enabling Dual Channel mode with two or four memory modules, it is recommended that using the same capacity, brand, speed, and chips of memory modules and also installed in the same color of DDR4 slots.

若要安裝兩支或四支DDR4記憶體模組，建議您使用相同容量/廠牌/速度/顆粒等之記憶體模組。