

Qualified Vendors List (QVL), Model Name: GA-B250-D3A

| DDR4 2400MHz    |         |                                 |                       |       |            |           |             |         |                       |   |   |     |        |
|-----------------|---------|---------------------------------|-----------------------|-------|------------|-----------|-------------|---------|-----------------------|---|---|-----|--------|
| 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                            | HX424C12PB2K4/16      | SS    | SKhynix    |           | CL12        | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 4GB     | 1Rx8                            | HX424C12SB2K4/16      | SS    | SKhynix    |           | C12         | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 4GB     | 1Rx8                            | HX424C12SB2K2/8       | SS    | SKhynix    |           | C12         | 1.35v   | v                     | v |   | v   | 2133   |
| HyperX          | 4GB     | 1Rx8                            | HX424C12SB2/4         | SS    | SKhynix    |           | C12         | 1.35v   | v                     |   |   | v   | 2133   |
| HyperX          | 4GB     | 1Rx8                            | HX424C15FBK4/16       | SS    | SKhynix    |           | C15         | 1.2v    | v                     | v | v | v   | 2133   |
| HyperX          | 4GB     | 1Rx8                            | HX424C15FBK2/8        | SS    | SKhynix    |           | C15         | 1.2v    | v                     | v |   | v   | 2133   |
| HyperX          | 4GB     | 1Rx8                            | HX424C15FB/4          | SS    | SKhynix    |           | C15         | 1.2v    | v                     |   |   | v   | 2133   |
| HyperX          | 8GB     | 2Rx8                            | HX424C12PBK4/32       | DS    |            |           | CL12        | 1.35v   | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 2Rx8                            | HX424C12SB2K4/32      | DS    | SKhynix    |           | C12         | 1.35v   | v                     | v |   | v   | 2133   |
| HyperX          | 8GB     | 2Rx8                            | HX424C12SB2K2/16      | DS    | SKhynix    |           | C12         | 1.35v   | v                     | v |   | v   | 2133   |
| HyperX          | 8GB     | 2Rx8                            | HX424C12SB2/8         | DS    | SKhynix    |           | C12         | 1.35v   | v                     |   |   | v   | 2133   |
| HyperX          | 8GB     | 2Rx8                            | HX424C15FB/8          | DS    | SKhynix    |           | C15         | 1.2v    | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 2Rx8                            | HX424C15FBK4/32       | DS    | SKhynix    |           | C15         | 1.2v    | v                     | v | v | v   | 2133   |
| HyperX          | 8GB     | 2Rx8                            | HX424C15FBK2/16       | DS    | SKhynix    |           | C15         | 1.2v    | v                     | v |   | v   | 2133   |
| HyperX          | 8GB     | 2Rx8                            | HX424C15FB/8          | DS    | SKhynix    |           | C15         | 1.2v    | 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   | 2133   |
| HyperX          | 8GB     | 1Rx8                            | HX424C15FB2/8         | SS    |            |           | C15         | 1.2v    | v                     |   |   | v   | 2133   |
| 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   | 2133   |
| HyperX          | 16GB    | 2Rx8                            | HX424C15FB/16         | DS    |            |           | C15         | 1.2v    | v                     |   |   | v   | 2133   |
| HyperX          | 16GB    | 2Rx8                            | HX424C14SBK4/64       | DS    |            |           | C14         | 1.2v    | v                     | v | v | v   | 2133   |
| Kingston        | 4GB     | 1Rx8                            | KVR24N17S8/4          | SS    | Micron     |           | CL17        | 1.2v    | v                     | v | v |     | 2400   |
| Kingston        | 8GB     | 2Rx8                            | KVR24N17D8/8          | DS    | 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                            | CMK16GX4M4A2400C14    | SS    | Samsung    |           | 14-16-16-31 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                            | CMK16GX4M4A2400C14B   | SS    | Samsung    |           | 14-16-16-31 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                            | CMK16GX4M4A2400C14R   | SS    | Samsung    |           | 14-16-16-31 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 4GB     | 1Rx8                            | CMD16GX4M4A2400C14    | SS    | Samsung    |           | 14-16-16-31 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMK32GX4M4A2400C14    | DS    | Samsung    |           | 14-16-16-31 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMK32GX4M4A2400C14B   | DS    | Samsung    |           | 14-16-16-31 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMK32GX4M4A2400C14R   | DS    | Samsung    |           | 14-16-16-31 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMD32GX4M4A2400C14    | DS    | Samsung    |           | 14-16-16-31 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMD64GX4M8A2400C14    | SS    |            |           | 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   | 2133   |
| CORSAIR         | 8GB     | 1Rx8                            | CMK16GX4M2A2400C16R   | SS    |            |           | 16-16-16-39 | 1.2v    | v                     | v |   | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMD32GX4M4A2400C12    | DS    |            |           | 12-14-14-28 | 1.2v    | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMD32GX4M4B2400C10    | DS    |            |           | 10-12-12-28 | 1.35v   | v                     | v | v | v   | 2133   |
| CORSAIR         | 8GB     | 2Rx8                            | CMK32GX4M4A2400C12    | DS    |            |           | 12-14-14-28 | 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   |
| G.SKILL         | 4GB     | 1Rx8                            | F4-2400C15Q-16GRR     | SS    | Micron     |           | 15-15-15-35 | 1.2v    | v                     | v | v | v   | 2133   |
| G.SKILL         | 8GB     | 2Rx8                            | F4-2400C15Q-32GRR     | DS    | Micron     |           | 15-15-15-35 | 1.2v    | v                     | v | v | v   | 2133   |
| 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   |
| G.SKILL         | 16GB    | 2Rx8                            | F4-2400C14Q2-128GRK   | DS    |            |           | 14-14-14-34 | 1.2v    | v                     | v | v | v   | 2133   |
| ADATA           | 4GB     | 1Rx8                            | AD4U2400W4G17-B       | SS    | SKHynix    |           |             | 1.2v    | v                     | v | v |     | 2400   |
| ADATA           | 8GB     | 2Rx8                            | AD4U2400W8G17-B       | DS    | SKHynix    |           |             | 1.2v    | v                     | v | v |     | 2400   |
| ADATA           | 16GB    | 2Rx8                            | AX4U2400316G16-SBF    | DS    |            |           | 16-16-16    | 1.2v    | v                     | v | v | v   | 2133   |
| Apacer          | 4GB     | 1Rx8                            | 78.B1GMS.4050B        | SS    | Samsung    |           | CL17        | 1.2v    | v                     | v | v |     | 2400   |
| Apacer          | 8GB     | 2Rx8                            | 78.C1GMS.4010B        | DS    | Samsung    |           | CL17        | 1.2v    | v                     | v | v |     | 2400   |
| Apacer          | 8GB     | 2Rx8                            | AU08GGB24CETBGC       | DS    |            |           | CL17        | 1.2v    | v                     | v | v |     | 2400   |
| Apacer          | 8GB     | 1Rx8                            | AHU08GGB24CDU7G       | SS    |            |           | 16-16-16-36 |         | v                     | v |   | v   | 2133   |
| Apacer          | 8GB     | 1Rx8                            | AU08GGB24CEYBGC       | SS    |            |           | CL17        | 1.2v    | v                     | v | v | v   | 2400   |
| Avexir          | 4GB     | 1Rx8                            | AVD4U24001604G-4M     | SS    | SKHynix    |           | CL16        | 1.2v    | v                     | v | v | v   | 2133   |
| Avexir          | 4GB     | 1Rx8                            | AVD4UZ124001604G-2COB | SS    | Spectek    |           | CL16        | 1.2v    | v                     | v | v | v   | 2133   |
| Avexir          | 4GB     | 1Rx8                            | AVD4UZ124001604G-4COR | SS    | Spectek    |           | 16-16-16-36 | 1.2v    | v                     | v | v | v   | 2133   |
|                 |         |                                 | AVD4UZ124001604G-4COB |       |            |           |             |         | v                     | v | v | v   | 2133   |
|                 |         |                                 | AVD4UZ124001604G-4COG |       |            |           |             |         | v                     | v | v | v   | 2133   |
|                 |         |                                 | AVD4UZ124001604G-4COW |       |            |           |             |         | v                     | v | v | v   | 2133   |
|                 |         |                                 | AVD4UZ124001604G-4COY |       |            |           |             |         | v                     | v | v | v   | 2133   |
|                 |         |                                 | AVD4UZ124001604G-4COO |       |            |           |             |         | v                     | v | v | v   | 2133   |
|                 |         |                                 | AVD4UZ124001604G-4CWW |       |            |           |             |         | v                     | v | v | v   | 2133   |
| Avexir          | 8GB     | 2Rx8                            | AVD4U24001608G-4M     | DS    | SKHynix    |           | CL16        | 1.2v    | v                     | v | v | v   | 2133   |
| Avexir          | 8GB     | 2Rx8                            | AVD4UZ124001608G-2COB | DS    | Spectek    |           | CL16        | 1.2v    | v                     | v | v | v   | 2133   |
| Avexir          | 8GB     | 2Rx8                            | AVD4UZ124001608G-4COR | DS    | Micron     |           | 16-16-16-36 | 1.2v    | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001608G-4COB |       |            |           |             |         | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001608G-4COG |       |            |           |             |         | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001608G-4COW |       |            |           |             |         | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001608G-4COY |       |            |           |             |         | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001608G-4COO |       |            |           |             |         | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001608G-4CWW |       |            |           |             |         | v                     | v | v |     | 2400   |
|                 |         |                                 |                       |       |            |           |             |         |                       |   |   |     |        |
| Avexir          | 16GB    | 2Rx8                            | AVD4UZ124001616G-4CWW | DS    | Micron     |           | 16-16-16-36 | 1.2v    | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001616G-4COB |       |            |           |             |         | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001616G-4COG |       |            |           |             |         | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001616G-4COW |       |            |           |             |         | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001616G-4COY |       |            |           |             |         | v                     | v | v |     | 2400   |
|                 |         |                                 | AVD4UZ124001616G-4COO |       |            |           |             |         | v                     | v | v |     | 2400   |

|         |      |      |                       |    |         |  |             |       |   |   |   |   |      |
|---------|------|------|-----------------------|----|---------|--|-------------|-------|---|---|---|---|------|
|         |      |      | AVD4UZ124001616G-4COR |    |         |  |             |       | 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 |   | 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 | v |   | 2400 |
| GEIL    | 8GB  | 2Rx8 | GPR432GB2400C15QC     | DS |         |  | 15-15-15-35 | 1.2v  | v | 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 | 2133 |
| GLOWAY  | 8GB  | 2Rx8 | 8G-2400               | DS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2133 |
| PATRIOT | 4GB  | 1Rx8 | PX416G240C5QK         | SS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2133 |
| PATRIOT | 4GB  | 1Rx8 | PX48G240C5K           | SS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2133 |
| PATRIOT | 4GB  | 1Rx8 | PV48G240C5K           | SS |         |  | CL15        | 1.2v  | v | v | v | v | 2133 |
| PATRIOT | 4GB  | 1Rx8 | PVE48G240C5KRD        | SS |         |  | CL15        | 1.2v  | v | v | v | v | 2133 |
| PATRIOT | 8GB  | 2Rx8 | PV432G240C5QK         | DS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2133 |
| PATRIOT | 8GB  | 2Rx8 | PX432G240C5QK         | DS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2133 |
| PATRIOT | 8GB  | 2Rx8 | PX416G240C5K          | DS |         |  | 15-15-15-35 | 1.2v  | v | v | v | v | 2133 |
| PATRIOT | 8GB  | 2Rx8 | PV416G240C5K          | DS |         |  | CL15        | 1.2v  | v | v | v | v | 2133 |
| Panram  | 4GB  | 1Rx8 | PUD42400C154G4NJW     | SS | SKhynix |  | 15-15-15-35 | 1.2v  | v | v | v |   | 2400 |
| Panram  | 8GB  | 2Rx8 | PUD42400C158G4NJW     | DS | SKhynix |  | 15-15-15-35 | 1.2v  | v | v | v |   | 2400 |
| Team    | 4GB  | 1Rx8 | TCD44G2400C14BK       | SS | SKhynix |  | 14-16-16-31 | 1.2v  | v | v | v | v | 2133 |
| Team    | 8GB  | 2Rx8 | TED48G2400C16BK       | DS |         |  | 16-16-16-39 | 1.2v  | v | v | v |   | 2400 |
| Team    | 8GB  | 2Rx8 | TCD48G2400C14BK       | DS | SKhynix |  | 14-16-16-31 | 1.2v  | v | v | v | v | 2133 |
| Team    | 16GB | 2Rx8 | TED416G2400C16BK      | DS |         |  | 16-16-16-39 | 1.2v  | v | v | v |   | 2400 |
| V-Color | 4GB  | 1Rx8 | TD4G8C17-UH           | SS |         |  | CL17        | 1.2v  | v | v | v |   | 2400 |
| V-Color | 8GB  | 2Rx8 | TD8G16C17-UH          | DS |         |  | CL17        | 1.2v  | v | v | v |   | 2400 |

DDR4 2133MHz

| 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                            | HX421C13SBK4/16       | SS    | SKhynix    |           | CL13        | 1.2v    | v                     | v | v |     | v      |
| HyperX          | 4GB     | 1Rx8                            | HX421C13SBK2/8        | SS    | SKhynix    |           | CL13        | 1.2v    | v                     | v |   |     | v      |
| HyperX          | 4GB     | 1Rx8                            | HX421C13SB/4          | SS    | SKhynix    |           | CL13        | 1.2v    | v                     |   |   |     | v      |
| HyperX          | 4GB     | 1Rx8                            | HX421C14FBK4/16       | SS    | SKhynix    |           | CL14        | 1.2v    | v                     | v | v |     | v      |
| HyperX          | 4GB     | 1Rx8                            | HX421C14FBK2/8        | SS    | SKhynix    |           | CL14        | 1.2v    | v                     | v |   |     | v      |
| HyperX          | 4GB     | 1Rx8                            | HX421C14FB/4          | SS    | SKhynix    |           | CL14        | 1.2v    | v                     |   |   |     | v      |
| HyperX          | 8GB     | 2Rx8                            | HX421C13SBK4/32       | DS    | SKhynix    |           | CL13        | 1.2v    | v                     | v | v |     | v      |
| HyperX          | 8GB     | 2Rx8                            | HX421C13SBK2/16       | DS    | SKhynix    |           | CL13        | 1.2v    | v                     | v |   |     | v      |
| HyperX          | 8GB     | 2Rx8                            | HX421C13SB/8          | DS    | SKhynix    |           | CL13        | 1.2v    | v                     |   |   |     | v      |
| HyperX          | 8GB     | 2Rx8                            | HX421C14FBK4/32       | DS    | SKhynix    |           | CL14        | 1.2v    | v                     | v | v |     | v      |
| HyperX          | 8GB     | 2Rx8                            | HX421C14FBK2/16       | DS    | SKhynix    |           | CL14        | 1.2v    | v                     | v |   |     | v      |
| HyperX          | 8GB     | 2Rx8                            | HX421C14FB/8          | DS    | SKhynix    |           | CL14        | 1.2v    | v                     |   |   |     | v      |
| HyperX          | 8GB     | 1Rx8                            | HX421C14FB2K4/32      | SS    |            |           | CL14        | 1.2v    | v                     | 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      |
| HyperX          | 16GB    | 2Rx8                            | HX421C14FBK4/64       | DS    |            |           | CL14        | 1.2v    | v                     | 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      |
| Kingston        | 4GB     | 1Rx8                            | KVR21N15S8/4          | SS    | SKhynix    |           |             | 1.2v    | v                     | v | v |     | v      |
| Kingston        | 4GB     | 1Rx8                            | KVR21N15S8/4          | SS    | SKhynix    |           | CL15        | 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    |           |             | 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        | 8GB     | 1Rx8                            | KVR21N15S8/8          | DS    | Micron     |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| Kingston        | 16GB    | 2Rx8                            | KVR21N15D8/16         | DS    | Micron     |           | CL15        | 1.2v    | v                     | v | v | v   | v      |
| CORSAIR         | 4GB     | 1Rx8                            | CMV4GX4M1A2133C15     | SS    | SKhynix    |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| CORSAIR         | 4GB     | 1Rx8                            | CMK16GX4M4A2133C13    | SS    |            |           | 13-15-15-28 | 1.2v    | v                     | v | v |     | v      |
| CORSAIR         | 4GB     | 1Rx8                            | CMK16GX4M4A2133C13B   | SS    |            |           | 13-15-15-28 | 1.2v    | v                     | v | v |     | v      |
| CORSAIR         | 4GB     | 1Rx8                            | CMK16GX4M4A2133C13R   | SS    |            |           | 13-15-15-28 | 1.2v    | v                     | v | v |     | v      |
| CORSAIR         | 4GB     | 1Rx8                            | CMD16GX4M4B2133C10    | SS    |            |           | 10-12-12-31 | 1.35v   | v                     | v | v |     | v      |
| CORSAIR         | 8GB     | 2Rx8                            | CMV8GX4M1A2133C15     | DS    | SKhynix    |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| CORSAIR         | 8GB     | 2Rx8                            | CMK32GX4M4A2133C13    | DS    |            |           | 13-15-15-28 | 1.2v    | v                     | v | v |     | v      |
| CORSAIR         | 8GB     | 2Rx8                            | CMK64GX4M8A2133C13    | DS    |            |           | 13-15-15-28 | 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                            | CMK32GX4M2A2133C13    | DS    |            |           | 13-15-15-28 | 1.2v    | v                     | v |   |     | v      |
| CORSAIR         | 16GB    | 2Rx8                            | CMK128GX4M8A2133C13   | DS    |            |           | 13-15-15-28 | 1.2v    | v                     | v | v |     | v      |
| G.SKILL         | 4GB     | 1Rx8                            | F4-2133C15Q-16GRR     | SS    | Micron     |           | 15-15-15-35 | 1.2v    | v                     | v | v |     | v      |
| G.SKILL         | 8GB     | 2Rx8                            | F4-2133C15Q-32GRR     | DS    | Micron     |           | 15-15-15-35 | 1.2v    | v                     | v | v |     | v      |
| ADATA           | 4GB     | 1Rx8                            | AD4U2133W4G15-B       | SS    | SKhynix    |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| Apacer          | 4GB     | 1Rx8                            | 78.B1GM3.AF00B        | SS    |            |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| Apacer          | 8GB     | 2Rx8                            | 78.C1GM3.AF10B        | DS    |            |           | CL15        | 1.2v    | v                     | v | v |     | v      |
| Avexir          | 4GB     | 1Rx8                            | AVD4UZ121331504G-4COR | SS    | Spectek    |           | 15-15-15-35 | 1.2v    | v                     | v | v |     | v      |
|                 |         |                                 | AVD4UZ121331504G-4COB |       |            |           |             |         | v                     | v | v |     | v      |
|                 |         |                                 | AVD4UZ121331504G-4COG |       |            |           |             |         | v                     | v | v |     | v      |
|                 |         |                                 | AVD4UZ121331504G-4COW |       |            |           |             |         | v                     | v | v |     | v      |
|                 |         |                                 | AVD4UZ121331504G-4COY |       |            |           |             |         | v                     | v | v |     | v      |
|                 |         |                                 | AVD4UZ121331504G-4COO |       |            |           |             |         | v                     | v | v |     | v      |
|                 |         |                                 | AVD4UZ121331504G-4CWW |       |            |           |             |         | v                     | v | v |     | v      |
|                 |         |                                 | AVD4UZ121331508G-4COB |       |            |           |             |         | v                     | v | v |     | v      |
|                 |         |                                 | AVD4UZ121331508G-4COR |       |            |           |             |         | v                     | v | v |     | v      |

|               |      |      |                              |    |         |                  |             |      |   |   |   |  |   |
|---------------|------|------|------------------------------|----|---------|------------------|-------------|------|---|---|---|--|---|
| Avexir        | 8GB  | 2Rx8 | AVD4UZ121331508G-4COG        | DS | Spectek |                  | 15-15-15-35 | 1.2v | v | v | v |  | v |
|               |      |      | AVD4UZ121331508G-4COW        |    |         |                  |             |      | v | v | v |  | v |
|               |      |      | AVD4UZ121331508G-4COY        |    |         |                  |             |      | v | v | v |  | v |
|               |      |      | AVD4UZ121331508G-4COO        |    |         |                  |             |      | v | v | v |  | v |
|               |      |      | AVD4UZ121331508G-4CWW        |    |         |                  |             |      | 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 |
| GLOWAY        | 4GB  | 1Rx8 | 4G-2133                      | SS |         |                  | 15-15-15-35 | 1.2v | v | v | v |  | v |
| Panram        | 4GB  | 1Rx8 | PUD42133C154G2VS             | SS | SKhynix |                  | 15-15-15-36 | 1.2v | v | v | v |  | v |
| Panram        | 4GB  | 1Rx8 | PED42133C154GVS              | SS | SKhynix |                  | 15-15-15-36 | 1.2v | v | v | v |  | v |
| Panram        | 8GB  | 2Rx8 | PUD42133C138G4NJW            | DS | SKhynix |                  | 13-13-13-35 | 1.2v | v | v | v |  | v |
| Panram        | 8GB  | 2Rx8 | PED42133C158GVS              | DS | SKhynix |                  | 15-15-15-36 | 1.2v | v | v | v |  | v |
| Silicon POWER | 4GB  | 1Rx8 | SP004GBLFU213N01             | SS | Samsung |                  | CL15        | 1.2v | v | v | v |  | v |
| Silicon POWER | 8GB  | 2Rx8 | SP008GBLFU213N01             | DS | Samsung |                  | CL15        | 1.2v | v | v | v |  | v |
| KLEVV         | 4GB  | 1Rx8 | KM4C4GX4N-2133-15-15-15-35-0 | SS |         |                  | 15-15-15-35 | 1.2v | v | v | v |  | v |
| Team          | 8GB  | 2Rx8 | TED48GM2133C15BK             | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v |  | v |
| Team          | 16GB | 2Rx8 | TED416G2133C15BK             | DS | SKHynix | H5AN4G8NMFR 523V | 15-15-15-36 | 1.2v | v | v | v |  | v |

• To support **2400 MHz** or XMP memory, you must install a 7th generation processor.Running XMP at DDR4 2400 MHz requires the use of a Kabylake CPU  
若要支援**2400 MHz**或XMP記憶體需使用第七代處理器。

• 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, andchips 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。