

R151-Z30 Qualification Vendor List Ver:1.3

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| AMD CPU                   |             |                 |          |                |                      |                           |                                |                  |                     |                |                    |
|---------------------------|-------------|-----------------|----------|----------------|----------------------|---------------------------|--------------------------------|------------------|---------------------|----------------|--------------------|
| Product Name              | Code Name   | Package         | Stepping | L3 Cache       | # of Cores / Threads | Processor Base Freq (GHz) | All Cores Boost Max Freq (GHz) | Processor Boost  | TDP                 | Memory Types   | Processor Graphics |
| AMD 7601 PS7601BDVHAF     | Naples      | SP3             | PR       | 64MB           | 32 / 64              | 2.20                      | 2.70                           | 3.20 / 3         | 180W                | DDR4-2666      | None               |
| AMD 7551 PS7551BDVHAF     | Naples      | SP3             | PR       | 64MB           | 32 / 64              | 2.00                      | 2.55                           | 3.00 / 3         | 180W                | DDR4-2666      | None               |
| AMD 7451 PS7451BDVHCAF    | Naples      | SP3             | PR       | 64MB           | 24 / 48              | 2.30                      | 3.20                           | 3.20 / 3         | 180W                | DDR4-2666      | None               |
| AMD 7351 PS7351BEVGPAP    | Naples      | SP3             | PR       | 64MB           | 16 / 32              | 2.40                      | 2.90                           | 2.90 / 2         | 155/170W            | DDR4-2400/2666 | None               |
| AMD 7351P PS7351PBEVGPAP  | Naples      | SP3             | PR       | 64MB           | 16 / 32              | 2.40                      | 2.90                           | 2.90 / 2         | 155/170W            | DDR4-2400/2666 | None               |
| AMD 7501 PS7501BEVHAF     | Naples      | SP3             | PR       | 64MB           | 32 / 64              | 2.00                      | 2.60                           | 3.00 / 3         | 155/170W            | DDR4-2400/2666 | None               |
| AMD 7401 PS7401BEVHCAF    | Naples      | SP3             | PR       | 64MB           | 24 / 48              | 2.00                      | 2.80                           | 3.00 / 3         | 155/170W            | DDR4-2400/2666 | None               |
| AMD 7301 PS7301BEVGPAP    | Naples      | SP3             | PR       | 64MB           | 16 / 32              | 2.20                      | 2.70                           | 2.70 / 2         | 155/170W            | DDR4-2400/2666 | None               |
| AMD 7251 PS7251BFVBSAF    | Naples      | SP3             | PR       | 32MB           | 8 / 16               | 2.00                      | 2.90                           | 2.90 / 2         | 120W                | DDR4-2400      | None               |
| AMD 7371 PD PS7371BDVGPAP | Naples      | SP3             | PD       | 64MB           | 16 / 32              | 3.10                      | 3.60                           | 200W             | DDR4-2666           | None           | None               |
| Product Name              | Code Name   | Package         | Stepping | L3 Cache       | # of Cores / Threads | Processor Base Freq (GHz) | Processor Boost Max Freq (GHz) | Default TDP      | CTDP Min / cdTP Max | Memory Types   | Processor Graphics |
| AMD 7H12 100-00000055     | ROME        | SP3             | PD       | 256MB          | 64 / 128             | 2.60                      | 3.40                           | 280W             | 225W/280W           | DDR4-3200      | None               |
| AMD 7742 100-00000053     | ROME        | SP3             | B0 PR    | 256MB          | 64 / 128             | 2.25                      | 3.40                           | 225W             | 225W/240W           | DDR4-3200      | None               |
| AMD 7702 100-00000038     | ROME        | SP3             | B0 PR    | 256MB          | 64 / 128             | 2.00                      | 3.35                           | 200W             | 165W/200W           | DDR4-3200      | None               |
| AMD 7662 100-00000137     | ROME        | SP3             | PD       | 256MB          | 64 / 128             | 2.00                      | 3.30                           | 225W             | 225W/240W           | DDR4-3200      | None               |
| AMD 7642 100-00000074     | ROME        | SP3             | B0 PR    | 192MB          | 48 / 96              | 2.30                      | 3.40                           | 225W             | 225W/240W           | DDR4-3200      | None               |
| AMD 7552 100-00000076     | ROME        | SP3             | B0 PR    | 192MB          | 48 / 96              | 2.20                      | 3.30                           | 200W             | 165W/200W           | DDR4-3200      | None               |
| AMD 7542 100-00000075     | ROME        | SP3             | B0 PR    | 128MB          | 32 / 64              | 2.90                      | 3.40                           | 225W             | 225W/240W           | DDR4-3200      | None               |
| AMD 7532 100-00000136     | ROME        | SP3             | PD       | 256MB          | 32 / 64              | 2.40                      | 3.30                           | 200W             | 180W/200W           | DDR4-3200      | None               |
| AMD 7502 100-00000054     | ROME        | SP3             | B0 PR    | 128MB          | 32 / 64              | 2.50                      | 3.35                           | 180W             | 165W/200W           | DDR4-3200      | None               |
| AMD 7452 100-00000057     | ROME        | SP3             | B0 PR    | 128MB          | 32 / 64              | 2.35                      | 3.35                           | 155W             | 155W/180W           | DDR4-3200      | None               |
| AMD 7F72 100-00000141     | ROME        | SP3             | PD       | 192MB          | 24 / 48              | 3.20                      | 3.70                           | 240W             | 225W/240W           | DDR4-3200      | None               |
| AMD 7402 100-00000046     | ROME        | SP3             | B0 PR    | 128MB          | 24 / 48              | 2.80                      | 3.35                           | 180W             | 165W/200W           | DDR4-3200      | None               |
| AMD 7352 100-00000077     | ROME        | SP3             | B0 PR    | 128MB          | 24 / 48              | 2.30                      | 3.20                           | 155W             | 155W/180W           | DDR4-3200      | None               |
| AMD 7F52 100-00000140     | ROME        | SP3             | PD       | 256MB          | 16 / 32              | 3.50                      | 3.90                           | 240W             | 225W/240W           | DDR4-3200      | None               |
| AMD 7302 100-00000043     | ROME        | SP3             | B0 PR    | 128MB          | 16 / 32              | 3.00                      | 3.30                           | 155W             | 155W/180W           | DDR4-3200      | None               |
| AMD 7282 100-00000078     | ROME        | SP3             | B0 PR    | 64MB           | 16 / 32              | 2.80                      | 3.20                           | 120W             | 120W/150W           | DDR4-2666      | None               |
| AMD 7272 100-00000079     | ROME        | SP3             | PD       | 64MB           | 12 / 24              | 2.90                      | 3.20                           | 120W             | 120W/150W           | DDR4-2666      | None               |
| AMD 7F32 100-00000139     | ROME        | SP3             | B0 PR    | 128MB          | 8 / 16               | 3.70                      | 3.90                           | 180W             | 165W/200W           | DDR4-3200      | None               |
| AMD 7262 100-00000041     | ROME        | SP3             | B0 PR    | 128MB          | 8 / 16               | 3.20                      | 3.40                           | 155W             | 155W/180W           | DDR4-3200      | None               |
| AMD 7252 100-00000080     | ROME        | SP3             | PD       | 64MB           | 8 / 16               | 3.10                      | 3.20                           | 120W             | 120W/150W           | DDR4-2666      | None               |
| AMD 7702P 100-00000047    | ROME        | SP3             | B0 PR    | 256MB          | 64 / 128             | 2.00                      | 3.35                           | 200W             | 165W/200W           | DDR4-3200      | None               |
| AMD 7502P 100-00000045    | ROME        | SP3             | B0 PR    | 128MB          | 32 / 64              | 2.50                      | 3.35                           | 180W             | 165W/200W           | DDR4-3200      | None               |
| AMD 7402P 100-00000048    | ROME        | SP3             | B0 PR    | 128MB          | 24 / 48              | 2.80                      | 3.35                           | 180W             | 165W/200W           | DDR4-3200      | None               |
| AMD 7302P 100-00000049    | ROME        | SP3             | B0 PR    | 128MB          | 16 / 32              | 3.00                      | 3.30                           | 155W             | 155W/180W           | DDR4-3200      | None               |
| AMD 7232P 100-00000081    | ROME        | SP3             | PD       | 32MB           | 8 / 16               | 3.10                      | 3.20                           | 120W             | 120W/150W           | DDR4-2666      | None               |
| Memory                    |             |                 |          |                |                      |                           |                                |                  |                     |                |                    |
| Product Name              | Memory Type | Module Supplier | Size     | Chip Brand     | Rank                 | Voltage                   | Data Transfer Rate             | Error Correction | CAS Latency         | Pins           | Note               |
| RDIMM                     |             |                 |          |                |                      |                           |                                |                  |                     |                |                    |
| HMA82GR7AFR8N-UHTD        | DDR4        | SKhynix         | 16GB     | SK Hynix       | 2R X8                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| HMA82GR7AFR8N-UHT2        | DDR4        | SKhynix         | 16GB     | SK Hynix       | 2R X8                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| HMA84GR7AFR4N-UHTD        | DDR4        | SKhynix         | 32GB     | SK Hynix       | 2R X4                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| HMA84GR7AFR4N-UHT2        | DDR4        | SKhynix         | 32GB     | SK Hynix       | 2R X4                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| CT16GARFD424A.38FB1       | DDR4        | Crucial         | 16GB     | Micron         | 2R X4                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| MTA36ASF2G72PZ-2G3B1QK    | DDR4        | Micron          | 16GB     | Micron         | 2R X4                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| CT16GARF5424A.18FB1       | DDR4        | Crucial         | 16GB     | Micron         | 1R X4                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G3B1IG    | DDR4        | Micron          | 16GB     | Micron         | 1R X4                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| M4R0-8GSBSCSJ             | DDR4        | INNOVATION      | 8GB      | Samsung        | 2R X4                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| M393A4K08B1-CRC0Q         | DDR4        | Samsung         | 32GB     | Samsung        | 2R X4                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| VP9MR4G7224JBJSB          | DDR4        | Viking          | 32GB     | Samsung        | 2R X4                | 1.2v                      | 2400MHz                        | Registered       | 17                  | 288-pin        |                    |
| M393A4K08B2-CTD           | DDR4        | Samsung         | 32GB     | Samsung        | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| CT32GARFD4266.36FD1       | DDR4        | CRUCIAL         | 32GB     | Micron         | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| CT32GARFD4266.2G6D1       | DDR4        | CRUCIAL         | 32GB     | Micron         | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| MTA36ASF4G72PZ-2G6D1RG    | DDR4        | Micron          | 32GB     | Micron-Inphi   | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| MTA36ASF4G72PZ-2G6D1QK    | DDR4        | Micron          | 32GB     | Micron-Montag  | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| CT32GARFD4266-2G6D1       | DDR4        | CRUCIAL         | 32GB     | Micron         | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| HMA82GR7AFR8N-VKT3        | DDR4        | SKhynix         | 16GB     | SKhynix-Montag | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| HMA84GR7AFR4N-VKTF        | DDR4        | SKhynix         | 32GB     | SKhynix-IDT    | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| CT16GARFD8266-2G6H1.001   | DDR4        | CRUCIAL         | 16GB     | Micron         | 2R X8                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G6H1QG    | DDR4        | Micron          | 16GB     | Micron         | 2R X8                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| CT32GARFD4266-2G6H1.001   | DDR4        | CRUCIAL         | 32GB     | Micron         | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| MTA36ASF4G72PZ-2G6H1QG    | DDR4        | Micron          | 32GB     | Micron         | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| HMA82GR7AFR4N-VKT3        | DDR4        | SKhynix         | 16GB     | SKhynix-Montag | 1R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| HMA82GR7AFR4N-VKTF        | DDR4        | SKhynix         | 16GB     | SKhynix-IDT    | 1R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| HMA84GR7AFR4N-VKT3        | DDR4        | SKhynix         | 32GB     | SKhynix-Montag | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| HMA84GR7AFR4N-VKTF        | DDR4        | SKhynix         | 32GB     | SKhynix-Montag | 2S2R x4              | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| CT16GARFD8266.18FD1       | DDR4        | CRUCIAL         | 16GB     | Micron         | 2R X8                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| CT16GARFD8266.2G6D1       | DDR4        | CRUCIAL         | 16GB     | Micron         | 2R X8                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G6D1QG    | DDR4        | Micron          | 16GB     | Micron-Montag  | 2R X8                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G6D1SG    | DDR4        | Micron          | 16GB     | Micron-IDT     | 2R X8                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| CT32GARFD4266.2G6E1.001   | DDR4        | CRUCIAL         | 32GB     | Micron         | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G6E1SG    | DDR4        | Micron          | 16GB     | Micron         | 2R X8                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| KSM26RS8HAI               | DDR4        | Kingston        | 8GB      | SKhynix-IDT    | 1R X8                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| KSM26RS416HAI             | DDR4        | Kingston        | 16GB     | SKhynix-IDT    | 1R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| KSM26RD432HAI             | DDR4        | Kingston        | 32GB     | SKhynix-IDT    | 2R X4                | 1.2v                      | 2666MHz                        | Registered       | 19                  | 288-pin        |                    |
| M393A2K40C82-CVFBQ        | DDR4        | Samsung         | 16GB     | Samsung-IDT    | 1R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| M393A2K40B2-CVFBQ         | DDR4        | Samsung         | 16GB     | Samsung-IDT    | 1R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| M393A2K43C82-CVFBQ        | DDR4        | Samsung         | 16GB     | Samsung-IDT    | 2R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| M393A4K40C82-CVFBQ        | DDR4        | Samsung         | 32GB     | Samsung-IDT    | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| M393A4K40C82-CVFBY        | DDR4        | Samsung         | 32GB     | Samsung-IDT    | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| ST4097RD420414-SC         | DDR4        | SMART           | 32GB     | Samsung-IDT    | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| M393A4K40B2-CVFBQ         | DDR4        | Samsung         | 32GB     | Samsung-IDT    | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| M393A8G40M82-CVFBY        | DDR4        | Samsung         | 64GB     | Samsung-IDT    | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| CT8GARFS8293.9FE1         | DDR4        | CRUCIAL         | 8GB      | Micron         | 1R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| CT8GARFS8293-2G9E1.001    | DDR4        | CRUCIAL         | 8GB      | Micron         | 1R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA0ASF1G72PZ-2G9E1VG     | DDR4        | Micron          | 8GB      | Micron-IDT     | 1R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA0ASF1G72PZ-2G9E1VU     | DDR4        | Micron          | 8GB      | Micron         | 1R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA0ASF1G72PZ-2G9E1TI     | DDR4        | Micron          | 8GB      | Micron         | 1R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| CT16GARFD8293.18FE1       | DDR4        | CRUCIAL         | 16GB     | Micron         | 2R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| CT16GARFD8293-2G9E1.001   | DDR4        | CRUCIAL         | 16GB     | Micron         | 2R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G9E1UG    | DDR4        | Micron          | 16GB     | Micron         | 2R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G9E1VG    | DDR4        | Micron          | 16GB     | Micron-IDT     | 2R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| CT16GARF54293.18FE1       | DDR4        | CRUCIAL         | 16GB     | Micron         | 1R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| CT16GARF54293-2G9E1.001   | DDR4        | CRUCIAL         | 16GB     | Micron         | 1R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G9E1TK    | DDR4        | Micron          | 16GB     | Micron         | 1R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G9E1VU    | DDR4        | Micron          | 16GB     | Micron-IDT     | 1R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G9E1VU    | DDR4        | Micron          | 16GB     | Micron-IDT     | 2R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G9E1VU    | DDR4        | Micron          | 16GB     | Micron         | 2R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA18ASF2G72PZ-2G9E1VU    | DDR4        | Micron          | 16GB     | Micron         | 1R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| CT32GARFD4293-2G9E2.001   | DDR4        | CRUCIAL         | 32GB     | Micron         | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| CT32GARFD4293.36FE2       | DDR4        | CRUCIAL         | 32GB     | Micron         | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA36ASF4G72PZ-2G9E2TG    | DDR4        | Micron          | 32GB     | Micron         | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA36ASF4G72PZ-2G9E2VG    | DDR4        | Micron          | 32GB     | Micron-IDT     | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA36ASF4G72PZ-2G9E2VU    | DDR4        | Micron          | 32GB     | Micron         | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| MTA18ASF4G72PZ-2G9E1TI    | DDR4        | Micron          | 32GB     | Micron         | 2R X8                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |
| CT64GARFD4293-2G9B2.001   | DDR4        | Crucial         | 64GB     | Micron-IDT     | 2R X4                | 1.2v                      | 2933MHz                        | Registered       | 21                  | 288-pin        |                    |

|                                |      |          |       |                              |        |      |         |                |    |         |  |
|--------------------------------|------|----------|-------|------------------------------|--------|------|---------|----------------|----|---------|--|
| HMA81GR7CJR8N-WM TG            | DDR4 | SKhynix  | 8GB   | SKhynix-IDT                  | 1Rx8   | 1.2v | 2933MHz | ECC Registered | 21 | 288-pin |  |
| HMA82GR7CJR8N-WM T4            | DDR4 | SKhynix  | 16GB  | SKhynix-Montage              | 2Rx8   | 1.2v | 2933MHz | ECC Registered | 21 | 288-pin |  |
| HMA84GR7CJR4N-WM TG            | DDR4 | SKhynix  | 32GB  | SKhynix-IDT                  | 2Rx4   | 1.2v | 2933MHz | ECC Registered | 21 | 288-pin |  |
| HMAA8GR7MJR4N-WM T4            | DDR4 | SKhynix  | 64GB  | SKhynix-Montage              | 2Rx4   | 1.2v | 2933MHz | ECC Registered | 21 | 288-pin |  |
| KSM29RD8/16MEI                 | DDR4 | Kingston | 16GB  | Micron-IDT                   | 2Rx8   | 1.2v | 2933MHz | ECC Registered | 21 | 288-pin |  |
| KSM29RD4/32MEI                 | DDR4 | Kingston | 32GB  | Micron-IDT                   | 2Rx4   | 1.2v | 2933MHz | ECC Registered | 21 | 288-pin |  |
| NT16GA72D8PBX3P-IX             | DDR4 | Nanya    | 16GB  | Nanya-IDT                    | 2Rx8   | 1.2v | 2933MHz | ECC Registered | 21 | 288-pin |  |
| NT32GA72D4NBX3P-IX             | DDR4 | Nanya    | 32GB  | Nanya-Montage or IDT         | 2Rx4   | 1.2v | 2933MHz | ECC Registered | 21 | 288-pin |  |
| HMA81GR7CJR8N-XN TG            | DDR4 | SKhynix  | 8GB   | SKhynix-IDT                  | 1Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| HMA82GR7CJR8N-XN T4            | DDR4 | SKhynix  | 16GB  | SKhynix                      | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| HMA82GR7CJR8N-XN T8            | DDR4 | SKhynix  | 16GB  | SKhynix                      | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| HMA82GR7CJR8N-XN TG            | DDR4 | SKhynix  | 16GB  | SKhynix                      | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| HMA82GR7DJR8N-XN T8            | DDR4 | SKhynix  | 16GB  | SKhynix-Rambus               | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| HMA84GR7CJR4N-XN T8            | DDR4 | SKhynix  | 32GB  | SKhynix                      | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| HMA84GR7CJR4N-XN T4            | DDR4 | SKhynix  | 32GB  | SKhynix                      | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| HMA84GR7CJR4N-XN TG            | DDR4 | SKhynix  | 32GB  | SKhynix                      | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| HMA84GR7DJR4N-XN T4            | DDR4 | SKhynix  | 32GB  | SKhynix-Montage              | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| HMAA8GR7AJR4N-XN TG            | DDR4 | SKhynix  | 64GB  | SKhynix-IDT                  | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| CT8G4RFS832A 9FE1              | DDR4 | Crucial  | 8GB   | Micron                       | 1Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| CT8G4RFS832A-3G2E1.001         | DDR4 | Crucial  | 8GB   | Micron                       | 1Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA9ASF1G72PZ-3G2E1V0          | DDR4 | Micron   | 8GB   | Micron                       | 1Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| CT16G4RFD832A 18FE1            | DDR4 | Crucial  | 16GB  | Micron-IDT                   | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA18ASF2G72PDZ-3G2E1V0        | DDR4 | Micron   | 16GB  | Micron-IDT                   | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| CT16G4RFD832A-3G2E1.001        | DDR4 | Crucial  | 16GB  | Micron                       | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA18ASF2G72PDZ-3G2E1U0        | DDR4 | Micron   | 16GB  | Rambus                       | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA9ASF2G72PZ-3G2E1T1          | DDR4 | Micron   | 16GB  | Montage                      | 1Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA18ASF2G72PZ-3G2E2T1         | DDR4 | Micron   | 16GB  | Montage                      | 1Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA18ASF2G72PDZ-3G2J3U1        | DDR4 | Micron   | 16GB  | Rambus                       | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| CT32G4RFD432A 36FE2            | DDR4 | Crucial  | 32GB  | Micron-Montage               | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| (3200MHz only support on 1DPC) |      |          |       |                              |        |      |         |                |    |         |  |
| CT32G4RFD432A-3G2E2.001        | DDR4 | Crucial  | 32GB  | Micron-Montage               | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| (3200MHz only support on 1DPC) |      |          |       |                              |        |      |         |                |    |         |  |
| MTA36ASF4G72PZ-3G2E2TG         | DDR4 | Micron   | 32GB  | Micron-Montage               | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| (3200MHz only support on 1DPC) |      |          |       |                              |        |      |         |                |    |         |  |
| CT32G4RFD432A-3G2E7.001        | DDR4 | Crucial  | 32GB  | Micron-Montage or Micron-IDT | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| CT32G4RFD432A 36FE7            | DDR4 | Crucial  | 32GB  | Micron-Montage or Micron-IDT | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA36ASF4G72PZ-3G2E7V1         | DDR4 | Micron   | 32GB  | Micron-IDT                   | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA36ASF4G72PZ-3G2E7T1         | DDR4 | Micron   | 32GB  | Micron-Montage               | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA18ASF4G72PDZ-3G2B2T1        | DDR4 | Micron   | 32GB  | Micron-Montage               | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA36ASF4G72PZ-3G2J3U1         | DDR4 | Micron   | 32GB  | Micron-IDT                   | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA18ASF4G72PDZ-3G2E1U1        | DDR4 | Micron   | 32GB  | Micron-IDT                   | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| CT8G4RFD432A-3G2B2.001         | DDR4 | Crucial  | 8GB   | Micron                       | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA36ASF8G72PZ-3G2B2T1         | DDR4 | Micron   | 64GB  | Micron                       | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| MTA36ASF8G72PZ-3G2E1V1         | DDR4 | Micron   | 64GB  | Micron-IDT                   | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| M393A2K40D82-CWBEQ             | DDR4 | Samsung  | 16GB  | Samsung-IDT                  | 1Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| (3200MHz only support on 1DPC) |      |          |       |                              |        |      |         |                |    |         |  |
| M393A2K43D82-CWBEQ             | DDR4 | Samsung  | 16GB  | Samsung-IDT                  | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| (3200MHz only support on 1DPC) |      |          |       |                              |        |      |         |                |    |         |  |
| M393A2K43D83-CWBEQ             | DDR4 | Samsung  | 16GB  | Samsung-IDT                  | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| M393A2K40D83-CWEGQ             | DDR4 | Samsung  | 16GB  | Samsung-Rambus               | 1Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| M393A2K40D83-CWBEQ             | DDR4 | Samsung  | 16GB  | Samsung-IDT                  | 1Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| M393A2K40D83-CWEGQ             | DDR4 | Samsung  | 16GB  | Samsung-IDT                  | 1Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| M393A2K40D83-CWBEQ             | DDR4 | Samsung  | 16GB  | Samsung                      | 1Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| (3200MHz only support on 1DPC) |      |          |       |                              |        |      |         |                |    |         |  |
| M393A4K40D83-CWBEQ             | DDR4 | Samsung  | 32GB  | Samsung                      | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| M393A4K40D83-CWEGQ             | DDR4 | Samsung  | 32GB  | Samsung-Montage              | 1Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| M393A4K40D83-CWEGQ             | DDR4 | Samsung  | 32GB  | Samsung-Rambus               | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| M393A8G40A82-CWBEQ             | DDR4 | Samsung  | 64GB  | Samsung-IDT                  | 2Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| M393AAG40M32-CAEBQ             | DDR4 | Samsung  | 128GB | Samsung                      | 2S2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| TR416G32S422-XNC               | DDR4 | V-color  | 16GB  | SKhynix-Rambus               | 1Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| KSM32RD8/16MEI                 | DDR4 | Kingston | 16GB  | Micron-IDT                   | 2Rx8   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| KSM32RD4/32MEI                 | DDR4 | Kingston | 32GB  | Micron-IDT                   | 1Rx4   | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |
| LRDIMM                         |      |          |       |                              |        |      |         |                |    |         |  |
| HMAA8GL7AMR4N-UHTE             | DDR4 | SKhynix  | 64GB  | SKhynix                      | 4DRx4  | 1.2v | 2400MHz | ECC Registered | 17 | 288-pin |  |
| M386A8K40BM1-CRC4Q M           | DDR4 | Samsung  | 64GB  | Samsung                      | 4DRx4  | 1.2v | 2400MHz | ECC Registered | 17 | 288-pin |  |
| HMAA8GL7AMR4N-VKTF             | DDR4 | SKhynix  | 64GB  | SKhynix                      | 4DRx4  | 1.2v | 2666MHz | ECC Registered | 19 | 288-pin |  |
| M386A8K40DM2-CWELQ             | DDR4 | Samsung  | 64GB  | Samsung-IDT                  | 4DRx4  | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |  |

| Storage                                         |                                         |           |                         |                |                                            |                 |                                   |                       |      |              |      |  |
|-------------------------------------------------|-----------------------------------------|-----------|-------------------------|----------------|--------------------------------------------|-----------------|-----------------------------------|-----------------------|------|--------------|------|--|
| Product Name                                    | Type                                    | Vendor    | Form Factor             | Format         | Capacity                                   | Interface Speed | Series                            | Cache                 | RPM  | Encryption   | Note |  |
| SATA                                            |                                         |           |                         |                |                                            |                 |                                   |                       |      |              |      |  |
| ST1000NX0313                                    | SATA                                    | Seagate   | 2.5"                    | 512e           | 1TB                                        | 6Gb/s           | Exos 7E2000 (Enterprise Capacity) | 128MB                 | 7200 | N/A          |      |  |
| ST2000NX0243                                    | SATA                                    | Seagate   | 2.5"                    | 4Kn            | 2TB                                        | 6Gb/s           | Exos 7E2000 (Enterprise Capacity) | 128MB                 | 7200 | N/A          |      |  |
| ST2000NX0253                                    | SATA                                    | Seagate   | 2.5"                    | 512E           | 2TB                                        | 6Gb/s           | Exos 7E2000 (Enterprise Capacity) | 128MB                 | 7200 | N/A          |      |  |
| ST10000NM0016                                   | SATA                                    | Seagate   | 3.5"                    | 512e           | 10TB                                       | 6Gb/s           | Exos X10 (Enterprise Capacity)    | 256MB                 | 7200 | N/A          |      |  |
| ST2000NM0008                                    | SATA                                    | Seagate   | 3.5"                    | 512n           | 2TB                                        | 6Gb/s           | EXOS 7E2                          | 128MB                 | 7200 | N/A          |      |  |
| ST14000NM0018                                   | SATA                                    | Seagate   | 3.5"                    | 512e           | 14TB                                       | 6Gb/s           | EXOS X14 (Enterprise Capacity)    | 256MB                 | 7200 | N/A          |      |  |
| ST16000NM001G                                   | SATA                                    | Seagate   | 3.5"                    | 512e/4Kn       | 16TB                                       | 6Gb/s           | EXOS X16                          | 256MB                 | 7200 | N/A          |      |  |
| ST8000NM000A                                    | SATA                                    | Seagate   | 3.5"                    | 512e           | 8TB                                        | 6Gb/s           | EXOS 7E8                          | 256MB                 | 7200 | N/A          |      |  |
| WD4000FYYZ-01UL1B2                              | SATA                                    | WD        | 3.5"                    | 512n           | 4TB                                        | 6Gb/s           | WD Re                             | 64MB                  | 7200 | N/A          |      |  |
| WD6001FSYZ-01SS7B0                              | SATA                                    | WD        | 3.5"                    | 512e           | 6TB                                        | 6Gb/s           | WD Re                             | 128MB                 | 7200 | N/A          |      |  |
| HUH721212ALE604                                 | SATA                                    | HGST / WD | 3.5"                    | 512e           | 12TB                                       | 6Gb/s           | Ultrastar DC HC520 (He12)         | 256MB                 | 7200 | N/A          |      |  |
| HUS72818TAL6L4                                  | SATA                                    | HGST / WD | 3.5"                    | 512e           | 8TB                                        | 6Gb/s           | Ultrastar DC HC320 (7K8)          | 256MB                 | 7200 | Secure Erase |      |  |
| HUS722T2TAL604 / 1W10002                        | SATA                                    | HGST / WD | 3.5"                    | 512n           | 2TB                                        | 6Gb/s           | Ultrastar DC HP4210 (7K2)         | 128MB                 | 7200 | N/A          |      |  |
| MG04ACA600E                                     | SATA                                    | Toshiba   | 3.5"                    | 512e           | 6TB                                        | 6Gb/s           | Capacity                          | 128MB                 | 7200 | N/A          |      |  |
| MG04ACA100N                                     | SATA                                    | Toshiba   | 3.5"                    | 512e           | 1TB                                        | 6Gb/s           | Capacity                          | 128MB                 | 7200 | N/A          |      |  |
| MG06ACA10TE                                     | SATA                                    | Toshiba   | 3.5"                    | 512e           | 10TB                                       | 6Gb/s           | Capacity                          | 256MB                 | 7200 | N/A          |      |  |
| MG07ACA14TE                                     | SATA                                    | Toshiba   | 3.5"                    | 512e           | 14TB                                       | 6Gb/s           | Capacity                          | 256MB                 | 7200 | N/A          |      |  |
| MTFDDAK1T9TDD-1AT1ZABYY (5200 PRO)              | SSD                                     | Micron    | 2.5"                    | SATA           | 1.92TB                                     | 6Gb/s           |                                   |                       |      |              |      |  |
| MZ-7LH1T9NE 883 DCT Series                      | SSD                                     | Samsung   | 2.5"                    | SATA           | 1.92TB                                     | 6Gb/s           |                                   |                       |      |              |      |  |
| SSDSC2K6019T8 D3-S4610 Series                   | SSD                                     | Intel     | 2.5"                    | SATA           | 1.92TB                                     | 6Gb/s           |                                   |                       |      |              |      |  |
| SSDSC2K8019T8 D3-S4510 Series                   | SSD                                     | Intel     | 2.5"                    | SATA           | 1.92TB                                     | 6Gb/s           |                                   |                       |      |              |      |  |
| XA960LE10063                                    | SSD                                     | Seagate   | 2.5"                    | SATA           | 960GB                                      | 6Gb/s           |                                   |                       |      |              |      |  |
| XA480LE10063                                    | SSD                                     | Seagate   | 2.5"                    | SATA           | 480GB                                      | 6Gb/s           |                                   |                       |      |              |      |  |
| SRE100-960G00210000                             | SSD                                     | Phison    | 2.5"                    | SATA           | 960GB                                      | 6Gb/s           |                                   |                       |      |              |      |  |
| SRE100-480G00210000                             | SSD                                     | Phison    | 2.5"                    | SATA           | 480GB                                      | 6Gb/s           |                                   |                       |      |              |      |  |
| SEDC500M/3840G DC500M Series                    | SSD                                     | Kingston  | 2.5"                    | SATA           | 3.84TB                                     | 6Gb/s           |                                   |                       |      |              |      |  |
| SEDC500M/1920G DC500M Series                    | SSD                                     | Kingston  | 2.5"                    | SATA           | 1.92TB                                     | 6Gb/s           |                                   |                       |      |              |      |  |
| SEDC500M/960G DC500M Series                     | SSD                                     | Kingston  | 2.5"                    | SATA           | 960GB                                      | 6Gb/s           |                                   |                       |      |              |      |  |
| SEDC500M/480G DC500M Series                     | SSD                                     | Kingston  | 2.5"                    | SATA           | 480GB                                      | 6Gb/s           |                                   |                       |      |              |      |  |
| KHK61RSE960G                                    | SSD                                     | Toshiba   | 2.5"                    | SATA           | 960GB                                      | 6Gb/s           |                                   |                       |      |              |      |  |
| M.2                                             |                                         |           |                         |                |                                            |                 |                                   |                       |      |              |      |  |
| SSDPEKKA010T801 P4101 Series 1TB                | M.2                                     | Intel     | 2280                    | PCIe(NVMe)     | 1TB                                        |                 |                                   |                       |      |              |      |  |
| SSDPEKKA256G801 P4101 Series 256GB              | M.2                                     | Intel     | 2280                    | PCIe(NVMe)     | 256GB                                      |                 |                                   |                       |      |              |      |  |
| SSDPEKKA256G701 P3100 Series 256GB              | M.2                                     | Intel     | 2280                    | PCIe(NVMe)     | 256GB                                      |                 |                                   |                       |      |              |      |  |
| SSDPEKKA010T701 P3100 Series 1TB                | M.2                                     | Intel     | 2280                    | PCIe(NVMe)     | 1TB                                        |                 |                                   |                       |      |              |      |  |
| MZVPV128HDM                                     | M.2                                     | Samsung   | 2280                    | PCIe(NVMe)     | 128GB                                      |                 |                                   |                       |      |              |      |  |
| MZVPV512HDL                                     | M.2                                     | Samsung   | 2280                    | PCIe(NVMe)     | 512GB                                      |                 |                                   |                       |      |              |      |  |
| IM2P33F8-256GD                                  | M.2                                     | ADATA     | 2280                    | PCIe(NVMe)     | 256GB                                      |                 |                                   |                       |      |              |      |  |
| IM2P33F8-512GD                                  | M.2                                     | ADATA     | 2280                    | PCIe(NVMe)     | 512GB                                      |                 |                                   |                       |      |              |      |  |
| PCIe SSD                                        |                                         |           |                         |                |                                            |                 |                                   |                       |      |              |      |  |
| SSDPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB   | PCIe                                    | Intel     | PCI-E 3.0               | PCIe(NVMe)     | 4TB                                        |                 |                                   |                       |      |              |      |  |
| Netlist N1951 E3 NS1951AH33T2 Gen3 x8 3.2TB     | PCIe                                    | Netlist   | PCI-E 3.0               | PCIe(NVMe)     | 3.2TB                                      |                 |                                   |                       |      |              |      |  |
| Samsung PM1725b MZPLL3T2HAJQ PCIe Gen3 x8 3.2TB | PCIe                                    | Samsung   | PCI-E 3.0               | PCIe(NVMe)     | 3.2TB                                      |                 |                                   |                       |      |              |      |  |
| RAID Card                                       |                                         |           |                         |                |                                            |                 |                                   |                       |      |              |      |  |
| Product Name                                    | RAID-on-Chip Controller                 | Vendor    | Host Bus Type           | Internal Ports | Internal Connectors                        | External Ports  | External Connectors               | Data Transfer Rate    | Note |              |      |  |
| Gigabyte                                        |                                         |           |                         |                |                                            |                 |                                   |                       |      |              |      |  |
| CRA3338                                         | LSI SAS 3008                            | Gigabyte  | PCIe-x8 Gen3 x8 bus     | 8              | 2 Mini-SAS HD for 8x SAS                   | -               | -                                 | 12Gb/s ports          |      |              |      |  |
| CRA4448                                         | LSI SAS 3108                            | Gigabyte  | PCIe-x8 Gen3 x8 bus     | 8              | 2 x internal Mini-SAS HD SFF8643           | -               | -                                 | 12Gb/s ports          |      |              |      |  |
| CRA4548                                         | LSI SAS 3108                            | Gigabyte  | PCIe-x8 Gen3 x8 bus     | 4              | 1 x internal Mini-SAS HD SFF8643           | 4               | 1 x external Mini-SAS HD SFF8644  | 12Gb/s ports          |      |              |      |  |
| CRA4648                                         | LSI SAS 3108                            | Gigabyte  | PCIe-x8 Gen3 x8 bus     | 8              | 2 x internal Mini-SAS HD SFF8643           | -               | -                                 | 12Gb/s ports          |      |              |      |  |
| CSA3548                                         | LSI SAS 3008                            | Gigabyte  | PCIe-x8 Gen3 x8 bus     | -              | -                                          | 8               | 2 x external Mini-SAS HD SFF8644  | 12Gb/s ports          |      |              |      |  |
| CSA4648                                         | LSI SAS 3008                            | Gigabyte  | PCIe-x8 Gen3 x8 bus     | 8              | 2 x internal Mini-SAS HD SFF8643           | -               | -                                 | 12Gb/s ports          |      |              |      |  |
| LSI                                             |                                         |           |                         |                |                                            |                 |                                   |                       |      |              |      |  |
| LSI SAS 9300-8e                                 | SAS3008                                 | LSI       | x8 lane PCI Express 3.0 | -              | -                                          | 8               | 2 x mini-SAS HD SFF8644           | 12Gb/s SAS 3.0        |      |              |      |  |
| LSI SAS 9300-8i                                 | SAS3008                                 | LSI       | x8 lane PCI Express 3.0 | 8              | 2 x Mini-SAS HD SFF-8643                   | -               | -                                 | 12Gb/s SAS 3.0        |      |              |      |  |
| LSI SAS 9400-16i                                | SAS3416                                 | LSI       | x8 lane PCI Express 3.1 | 16             | 4 x Mini-SAS HD SFF-8643                   | -               | -                                 | 12Gb/s SAS 3.0        |      |              |      |  |
| LSI SAS 9400-8i                                 | SAS3408                                 | LSI       | x8 lane PCI Express 3.1 | 8              | 2 x Mini-SAS HD SFF-8643                   | -               | -                                 | 12Gb/s SAS 3.0        |      |              |      |  |
| MegaRAID SAS 9271-8i                            | LSISAS2208 Dual-Core RAID on Chip (ROC) | LSI       | x8 lane PCI Express 3.0 | 8              | 2 x Mini-SAS SFF8087 (side)                | -               | -                                 | Up to 6Gb/s per port  |      |              |      |  |
| MegaRAID SAS 9361-8i                            | LSISAS3108 dual core RAID on Chip (ROC) | LSI       | x8 lane PCI Express 3.0 | 8              | 2 x HD Mini-SAS SFF8643 (Horizontal mount) | -               | -                                 | Up to 12Gb/s per port |      |              |      |  |
| MegaRAID SAS 9380-8e                            | LSISAS3108 dual core RAID on Chip       | LSI       | x8 lane PCI Express 3.0 | -              | -                                          | 8               | 2 x Mini-SAS HD SFF8644           | Up to 12Gb/s per port |      |              |      |  |
| MegaRAID SAS 9460-16i                           | SAS3516 dual-core RAID-on-Chip (ROC)    | LSI       | x8 lane PCI Express 3.1 | 8              | 4 x Mini-SAS HD SFF-8643                   | -               | -                                 | 12Gb/s SAS 3.0        |      |              |      |  |
| MegaRAID SAS 9460-8i                            | SAS3508 dual-core RAID-on-Chip (ROC)    | LSI       | x8 lane PCI Express 3.1 | 8              | 2 x Mini-SAS HD SFF-8643                   | -               | -                                 | 12Gb/s SAS 3.0        |      |              |      |  |
| Microsemi                                       |                                         |           |                         |                |                                            |                 |                                   |                       |      |              |      |  |
| HBA 1100-16i                                    | PM8242                                  | Microsemi | 8-Lane PCIe Gen3        | 16             | 4 x Internal                               | -               | -                                 | 12 Gb/s per port      |      |              |      |  |
| HBA 1100-24i                                    | PM8238                                  | Microsemi | 8-Lane PCIe Gen3        | 24             | 6 x Internal                               | -               | -                                 | 12 Gb/s per port      |      |              |      |  |
| SmartHBA 2100-8i                                | PM8222                                  | Microsemi | 8-Lane PCIe Gen3        | 8              | 2 x Internal                               | -               | -                                 | 12 Gb/s per port      |      |              |      |  |
| SmartRAID 3154-16i                              | PM8236                                  | Microsemi | 8-Lane PCIe Gen3        | 16             | 4 x Internal                               | -               | -                                 | 12 Gb/s per port      |      |              |      |  |
| SmartRAID 3154-8i                               | PM8204                                  | Microsemi | 8-Lane PCIe Gen3        | 8              | 2 x Internal                               | -               | -                                 | 12 Gb/s per port      |      |              |      |  |
| PMC                                             |                                         |           |                         |                |                                            |                 |                                   |                       |      |              |      |  |
| Adaptec ASR-81605ZQ                             |                                         | PMC       | 8-lane PCIe Gen3        | 16             | 4 x internal mini SAS HD (SFF-8643)        | -               | -                                 | 12Gb/s per port       |      |              |      |  |
| LAN Cards                                       |                                         |           |                         |                |                                            |                 |                                   |                       |      |              |      |  |

| Product Name                                         | Connector | System Interface Type | # of Ports | System Interface Type | Data rate                       | Note                      |
|------------------------------------------------------|-----------|-----------------------|------------|-----------------------|---------------------------------|---------------------------|
| GIGABYTE LAN Cards                                   |           |                       |            |                       |                                 |                           |
| GC-MLBZ1                                             | SFP+      | PCIe x8 Gen2 x8       | Dual       |                       | 10Gb/s per port                 | Broadcom BCM57810S        |
| CLN4831                                              | SFP+      | PCIe x8 Gen2 x8       | Single     |                       | 10Gb/s per port                 | INTEL 82599EN             |
| CLN4832                                              | SFP+      | PCIe x8 Gen2 x8       | Dual       |                       | 10Gb/s per port                 | INTEL 82599ES             |
| CLN4751                                              | QSFP+     | PCIe x8 Gen3 x8       | Single     |                       | 40Gb/s per port                 | INTEL XL710               |
| CLN4752                                              | QSFP+     | PCIe x8 Gen3 x8       | Dual       |                       | 40Gb/s per port                 | INTEL XL710               |
| CLN4121                                              | RJ-45     | PCIe x8 Gen3 x4       | Single     |                       | 10Gb/s per port                 | INTEL X550-AT             |
| CLN4222                                              | RJ-45     | PCIe x8 Gen3 x4       | Dual       |                       | 10Gb/s per port                 | INTEL X550-AT2            |
| CLN4224                                              | RJ-45     | PCIe x8 Gen3 x4       | Quad       |                       | 10Gb/s per port                 | INTEL X550-AT2            |
| CLN4C42                                              | SFP28     | PCIe Gen3 x16         | Dual       |                       | 25Gb/s per port                 | Mellanox ConnectX-4       |
| CLN4C44                                              | SFP28     | PCIe Gen3 x16         | Quad       |                       | 25Gb/s per port                 | Mellanox ConnectX-4       |
| CLN4M34                                              | SFP28     | PCIe Gen3 x16         | Quad       |                       | 10Gb/s per port                 | Mellanox ConnectX-4       |
| CLN4312                                              | RJ-45     | PCIe x4 Gen2 x4       | Dual       |                       | 1Gb/s per port                  | INTEL i350-AM2            |
| CLN4314                                              | RJ-45     | PCIe x4 Gen2 x4       | Quad       |                       | 1Gb/s per port                  | INTEL i350-AM4            |
| Intel_10GbE                                          |           |                       |            |                       |                                 |                           |
| Intel® Ethernet Converged Network Adapter X550-T2    | RJ-45     | PCIe v3.0 (8.0 GT/s)  | Dual       |                       | 10Gb/s per port                 |                           |
| Intel® Ethernet Converged Network Adapter X520-DA2   | SFP+      | PCIe v2.0 (5.0GT/s)   | Dual       |                       | 10Gb/s per port                 |                           |
| Intel® Ethernet Converged Network Adapter X710-T4    | RJ-45     | PCIe v3.0 (8.0 GT/s)  | Quad       |                       | 10Gb/s per port                 |                           |
| Intel® Ethernet Converged Network Adapter X710-DA4   | SFP+      | PCIe v3.0 (8.0 GT/s)  | Quad       |                       | 10Gb/s per port                 |                           |
| Intel® Ethernet Network Adapter X722-DA4             | SFP+      | PCIe v3.0 (8.0 GT/s)  | Quad       |                       | 10Gb/s per port                 |                           |
| Intel_25GbE                                          |           |                       |            |                       |                                 |                           |
| Intel® Ethernet Network Adapter XXV710-DA2           | SFP28     | PCIe v3.0 (8.0 GT/s)  | Dual       |                       | 25Gb/s per port                 |                           |
| Intel_40GbE                                          |           |                       |            |                       |                                 |                           |
| Intel® Ethernet Converged Network Adapter XL710-QDA2 | QSFP+     | PCIe v3.0 (8.0 GT/s)  | Dual       |                       | 40Gb/s per port                 |                           |
| Mellanox ConnectX®-3 VPI Adapter Cards               |           |                       |            |                       |                                 |                           |
| MCX354A-FCBT                                         | QSFP      | PCIe 3.0              | Dual       |                       | FDR and 40/56GbE                |                           |
| Mellanox ConnectX                                    |           |                       |            |                       |                                 |                           |
| MCX4121A-ACAT                                        | SFP28     | PCIe Gen3 x8          | Dual       |                       | 25Gb/s per port                 | Mellanox ConnectX-4 Lx EN |
| Qlogic LAN Adapters                                  |           |                       |            |                       |                                 |                           |
| QL3442-CU-CK                                         | SFP+      | PCIe x8 Gen3 x8       | Dual       |                       | 10Gb/s per port                 |                           |
| QL3442-RJ-CK                                         | RJ-45     | PCIe x8 Gen3 x8       | Dual       |                       | 10Gb/s per port                 |                           |
| QL45212-HLCU                                         | SFP28     | PCIe x8 Gen3 x8       | Dual       |                       | 25Gb/s per port                 |                           |
| QL41212HLCU-SP                                       | SFP28     | PCIe x8 Gen3 x8       | Dual       |                       | 25Gb/s per port                 |                           |
| QL41132HLCU-SP                                       | SFP28     | PCIe x8 Gen3 x8       | Dual       |                       | 10Gb/s per port                 |                           |
| Solarflare Onload Server Adapters                    |           |                       |            |                       |                                 |                           |
| SFN7322E                                             | SFP+      | 8.0GT/s (Gen3)        | Dual       |                       | 10Gb/s per port                 |                           |
| Broadcom (Emulex) Ethernet Networking Adapters       |           |                       |            |                       |                                 |                           |
| BCM957412A4120AC                                     | SFP+      | PCIe 3.0 x8           | Dual       |                       | 10Gb/s per port                 | BCM57412                  |
| BCM957414A4142CC                                     | SFP28     | PCIe 3.0 x8           | Dual       |                       | 25Gb/s per port                 | BCM57414                  |
| OCe14102-NX                                          | SFP+      | PCIe 3.0 x8           | Dual       |                       | 10Gb/s per port                 |                           |
| Transceiver / AOC / DAC                              |           |                       |            |                       |                                 |                           |
| Product Name / Product Number                        | Speed     | Form Factor           | Length     | Connector type        | nominal optical wavelength (nm) | Note                      |
| Transceiver                                          |           |                       |            |                       |                                 |                           |
| Avago AFBR-709DMZ                                    | 10Gb/1Gb  | SFP+                  | N/A        | LR                    | 850                             |                           |
| UMEC PDGSFTSRL00                                     | 10Gb/1Gb  | SFP+                  | N/A        | LR                    | 850                             |                           |
| WAVESPLITTER WST-SFP+SRC-C                           | 10Gb/1Gb  | SFP+                  | N/A        | SR                    | 850                             |                           |
| Finisar FTLX8574D3BCV                                | 10Gb/1Gb  | SFP+                  | N/A        | SR                    | 850                             |                           |
| Active Optical Cables (AOC)                          |           |                       |            |                       |                                 |                           |
| Avago AFBR-7CER03Z                                   | 10Gb      | SFP+                  | 3M         | N/A                   | 850                             |                           |
| Direct Attach Copper (DAC)                           |           |                       |            |                       |                                 |                           |
| Amphenol 586710004                                   | 10Gb      | SFP+                  | 7M         | N/A                   | 850                             |                           |
| MOLEX 747524801                                      | 10Gb      | SFP+                  | 5M         | N/A                   | 850                             |                           |