## C5. Qualification Vender List

**Attention! You must to enabled BIOS runtime error to monitor correctable and uncorrectable issue during test**

**Intel CPU**

| Product Name | Code Name | Q-Spec | Stepping | Cache | System Bus | # of Cores | Processor Base Frequency | Max Turbo Frequency | TDP | Memory Types | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Coffeelake-S(E) (Mehlow-Entry Server/Workstation) Xeon E | | | | | | | | | | | |
| Intel® Xeon® E-2286G | QS Coffee Lake-S | QRRS | U-0 | 12MB | | 6 | 4.0 GHz | 4.9 GHz | 95W | DDR4-2666 | |
| Intel® Xeon® E-2278G | QS Coffee Lake-S | QRXH | R-0 | 16MB | | 8 | 3.4 GHz | 5.0 GHz | 80W | DDR4-2666 | |
| Intel® Xeon® E-2276G | QS Coffee Lake-S | QRS1 | U-0 | 12MB | | 6 | 3.8 GHz | 4.9 GHz | 80W | DDR4-2666 | |
| Intel® Xeon® E-2274G | QS Coffee Lake-S | QS61 | U-0 | 8MB | | 4 | 4.0 GHz | 4.9 GHz | 83W | DDR4-2666 | |
| Intel® Xeon® E-2246G | QS Coffee Lake-S | QRS2 | U-0 | 12MB | | 6 | 3.6 GHz | 4.8 GHz | 80W | DDR4-2666 | |
| Intel® Xeon® E-2244G | QS Coffee Lake-S | QRWF | U-0 | 8MB | | 4 | 3.8 GHz | 4.8 GHz | 71W | DDR4-2666 | |
| Intel® Xeon® E-2226G | QS Coffee Lake-S | QRRV | U-0 | 12MB | | 6 | 3.4 GHz | 4.7 GHz | 80W | DDR4-2666 | |
| Intel® Xeon® E-2224G | QS Coffee Lake-S | QRWD | U-0 | 8MB | | 4 | 3.5 GHz | 4.7 GHz | 71W | DDR4-2666 | |
| Intel® Xeon® E-2236 | QS Coffee Lake-S | QRRW | U-0 | 12MB | | 6 | 3.4 GHz | 4.8 GHz | 80W | DDR4-2666 | |
| Intel® Xeon® E-2234 | QS Coffee Lake-S | QRWE | U-0 | 8MB | | 4 | 3.6 GHz | 4.8 GHz | 71W | DDR4-2666 | |
| Intel® Xeon® E-2224 | QS Coffee Lake-S | QRWC | U-0 | 8MB | | 4 | 3.4 GHz | 4.6 GHz | 71W | DDR4-2666 | |
| Intel® Xeon® E-2186G | QS Coffee Lake-S | QNT6 | U-0 | 12MB | | 6 | 3.8Ghz | 4.3Ghz | 95W | DDR4-2666 | |
| Intel® Xeon® E-2176G | QS Coffee Lake-S | QNT8 | U-0 | 12MB | | 6 | 3.7Ghz | 4.3Ghz | 80W | DDR4-2666 | |
| Intel® Xeon® E-2174G | QS Coffee Lake-S | QPA0 | U-0 | 8MB | | 4 | 3.8Ghz | 4.3Ghz | 71W | DDR4-2666 | |
| Intel® Xeon® E-2146G | QS Coffee Lake-S | QNT9 | U-0 | 12MB | | 6 | 3.5Ghz | 4.2Ghz | 80W | DDR4-2666 | |
| Intel® Xeon® E-2144G | QS Coffee Lake-S | QP9Z | U-0 | 8MB | | 4 | 3.6Ghz | 4.2Ghz | 71W | DDR4-2666 | |
| Intel® Xeon® E-2136 | QS Coffee Lake-S | QP4C | U-0 | 12MB | | 6 | 3.3Ghz | 4.2Ghz | 71W | DDR4-2666 | |
| Intel® Xeon® E-2134 | QS Coffee Lake-S | QPA1 | U-0 | 8MB | | 4 | 3.5Ghz | 4.2Ghz | 71W | DDR4-2666 | |
| Intel® Xeon® E-2126G | QS Coffee Lake-S | QNTA | U-0 | 12MB | | 6 | 3.3Ghz | 4.1Ghz | 80W | DDR4-2666 | |
| Intel® Xeon® E-2124G | QS Coffee Lake-S | QP9Y | U-0 | 8MB | | 4 | 3.4Ghz | 4.1Ghz | 71W | DDR4-2666 | |
| Intel® Xeon® E-2124 | QS Coffee Lake-S | QPA2 | U-0 | 8MB | | 4 | 3.3Ghz | 3.9Ghz | 71W | DDR4-2666 | |
| Intel® Xeon® E-2104G | QS Coffee Lake-S | QNTB | U-0 | 8MB | | 4 | 3.2Ghz | 3.2 GHz | 65W | DDR4-2666 | |
| Coffeelake-S (Desktop) i9/i7/i5/i3/Pentium/Celeron | | | | | | | | | | | |
| Intel® Core™ i7-8700K | QS Coffee Lake-S | QNMK | U-0 | 12 MB | | 6 | 3.70 GHz | 4.70 GHz | 95 W | DDR4-2666 | |
| Intel® Core™ i7-8700 | QS Coffee Lake-S | QNML | U-0 | 12 MB | | 6 | 3.20 GHz | 4.60 GHz | 65 W | DDR4-2666 | |
| Intel® Core™ i7-8700T | QS Coffee Lake-S | QP4P | U-0 | 12 MB | | 6 | 2.40 GHz | 4.00 GHz | 35 W | DDR4-2666 | |
| Intel® Core™ i5-9600K | QS Coffee Lake-S | QQPL | P-0 | 9 MB | | 6 | 3.70 GHz | 4.60 GHz | 95 W | DDR4-2666 | |
| Intel® Core™ i5-9600K | QS Coffee Lake-S | QRNE | R-0 | 9 MB | | 6 | 3.70 GHz | 4.60 GHz | 95 W | DDR4-2666 | |
| Intel® Core™ i5-8600K | QS Coffee Lake-S | QNMM | U-0 | 9 MB | | 6 | 3.60 GHz | 4.30 GHz | 95 W | DDR4-2666 | |
| Intel® Core™ i5-9600 | QS Coffee Lake-S | QQU4 | U-0 | 9 MB | | 6 | 3.10 GHz | 4.60 GHz | 65 W | DDR4-2666 | |
| Intel® Core™ i5-9500 | QS Coffee Lake-S | QQU7 | U-0 | 9 MB | | 6 | 3.00 GHz | 4.40 GHz | 65 W | DDR4-2666 | |
| Intel® Core™ i5-9400 | QS Coffee Lake-S | QRNN | R-0 | 9 MB | | 6 | 2.90 GHz | 4.10 GHz | 65 W | DDR4-2666 | |
| Intel® Core™ i5-9400 | QS Coffee Lake-S | QP6Y | U-0 | 9 MB | | 6 | 2.90 GHz | 4.10 GHz | 65 W | DDR4-2666 | |
| Intel® Core™ i5-9400 | QS Coffee Lake-S | QQPM | P-0 | 9 MB | 8 GT/s DMI3 | 6 | 2.90 GHz | 4.10 GHz | 65 W | DDR4-2666 | |
| Intel® Core™ i5-8600 | QS Coffee Lake-S | QP4W | U-0 | 9 MB | | 6 | 3.10 GHz | 4.30 GHz | 65 W | DDR4-2666 | |
| Intel® Core™ i5-8500 | QS Coffee Lake-S | QP5J | U-0 | 9 MB | | 6 | 3.00 GHz | 4.10 GHz | 65 W | DDR4-2666 | |
| Intel® Core™ i5-8400 | QS Coffee Lake-S | QNMN | U-0 | 9 MB | | 6 | 2.80 GHz | 4.00 GHz | 65 W | DDR4-2666 | |
| Intel® Core™ i5-9600T | QS Coffee Lake-S | QQU5 | U-0 | 9 MB | | 6 | 2.30 GHz | 3.90 GHz | 35 W | DDR4-2666 | |
| Intel® Core™ i5-9500T | QS Coffee Lake-S | QQU6 | U-0 | 9 MB | | 6 | 2.20 GHz | 3.70 GHz | 35 W | DDR4-2666 | |
| Intel® Core™ i5-9400T | QS Coffee Lake-S | QRNR | R-0 | 9 MB | | 6 | 1.80 GHz | 3.40 GHz | 35 W | DDR4-2666 | |
| Intel® Core™ i5-9400T | QS Coffee Lake-S | QP70 | U-0 | 9 MB | | 6 | 1.80 GHz | 3.40 GHz | 35 W | DDR4-2666 | |
| Intel® Core™ i5-8600T | QS Coffee Lake-S | QP50 | U-0 | 9 MB | | 6 | 2.30 GHz | 3.70 GHz | 35 W | DDR4-2666 | |
| Intel® Core™ i5-8500T | QS Coffee Lake-S | QP5H | U-0 | 9 MB | | 6 | 2.10 GHz | 3.50 GHz | 35 W | DDR4-2666 | |
| Intel® Core™ i5-8400T | QS Coffee Lake-S | QP52 | U-0 | 9 MB | | 6 | 1.70 GHz | 3.30 GHz | 35 W | DDR4-2666 | |
| Intel® Core™ i3-9350K | QS Coffee Lake-S | QQFU | B-0 | 8 MB | | 4 | 4.00 GHz | 4.60 GHz | 91 W | DDR4-2400 | |
| Intel® Core™ i3-8350K | QS Coffee Lake-S | QNES | B-0 | 8 MB | | 4 | 4.00 GHz | N/A | 91 W | DDR4-2400 | |
| Intel® Core™ i3-9300 | QS Coffee Lake-S | QQFV | B-0 | 8 MB | | 4 | 3.70 GHz | 4.30 GHz | 62 W | DDR4-2400 | |

| | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Intel® Core™ i3-9100 | QS Coffee Lake-S | QQFW | B-0 | 6 MB | | 4 | 3.60 GHz | 4.20 GHz | 65 W | DDR4-2400 | |
| Intel® Core™ i3-8300 | QS Coffee Lake-S | QP5N | B-0 | 8 MB | | 4 | 3.70 GHz | N/A | 62 W | DDR4-2400 | |
| Intel® Core™ i3-8100 | QS Coffee Lake-S | QNET | B-0 | 6 MB | | 4 | 3.60 GHz | N/A | 65 W | DDR4-2400 | |
| Intel® Core™ i3-8100 | QS Coffee Lake-S | QN5K | U-0 | 6 MB | | 4 | 3.60 GHz | N/A | 65 W | DDR4-2400 | |
| Intel® Core™ i3-9300T | QS Coffee Lake-S | QQFX | B-0 | 8 MB | | 4 | 3.20 GHz | 3.80 GHz | 35 W | DDR4-2400 | |
| Intel® Core™i3-9100T | QS Coffee Lake-S | QQFY | B-0 | 6 MB | | 4 | 3.10 GHz | 3.70 GHz | 35 W | DDR4-2400 | |
| Intel® Core™ i3-8300T | QS Coffee Lake-S | QP5P | B-0 | 8 MB | | 4 | 3.20 GHz | N/A | 35 W | DDR4-2400 | |
| Intel® Core™ i3-8100T | QS Coffee Lake-S | QP5Q | B-0 | 6 MB | | 4 | 3.10 GHz | N/A | 35 W | DDR4-2400 | |
| Intel® Pentium™ G5620 | QS Coffee Lake-S | QP7L | B-0 | 4 MB | | 2 | 4.00 GHz | N/A | 54 W | DDR4-2400 | |
| Intel® Pentium® G5600 | QS Coffee Lake-S | QP5R | B-0 | 4 MB | | 2 | 3.90 GHz | N/A | 54 W | DDR4-2400 | |
| Intel® Pentium® G5500 | QS Coffee Lake-S | QP5U | B-0 | 4 MB | | 2 | 3.80 GHz | N/A | 54 W | DDR4-2400 | |
| Intel® Pentium™ G5420 | QS Coffee Lake-S | QP7T | B-0 | 4 MB | | 2 | 3.80 GHz | N/A | 54 W | DDR4-2400 | |
| Intel® Pentium™ G5420 | QS Coffee Lake-S | QP71 | U-0 | 4 MB | | 2 | 3.80 GHz | N/A | 58 W | DDR4-2400 | |
| Intel® Pentium® G5400 | QS Coffee Lake-S | QP5W | B-0 | 4 MB | | 2 | 3.70 GHz | N/A | 54 W | DDR4-2400 | |
| Intel® Pentium® G5400 | QS Coffee Lake-S | QP51 | U-0 | 4 MB | | 2 | 3.70 GHz | N/A | 58 W | DDR4-2400 | |
| Intel® Pentium™ G5600T | QS Coffee Lake-S | QP7M | B-0 | 4 MB | | 2 | 3.30 GHz | N/A | 35 W | DDR4-2400 | |
| Intel® Pentium® G5500T | QS Coffee Lake-S | QP5V | B-0 | 4 MB | | 2 | 3.20 GHz | N/A | 35 W | DDR4-2400 | |
| Intel® Pentium™ G5420T | QS Coffee Lake-S | QP7U | B-0 | 4 MB | | 2 | 3.20 GHz | N/A | 35 W | DDR4-2400 | |
| Intel® Pentium™ G5420T | QS Coffee Lake-S | QP72 | U-0 | 4 MB | | 2 | 3.20 GHz | N/A | 35 W | DDR4-2400 | |
| Intel® Pentium® G5400T | QS Coffee Lake-S | QP5X | B-0 | 4 MB | | 2 | 3.10 GHz | N/A | 35 W | DDR4-2400 | |
| Intel® Pentium® G5400T | QS Coffee Lake-S | QP53 | U-0 | 4 MB | | 2 | 3.10 GHz | N/A | 35 W | DDR4-2400 | |
| Intel® Celeron™ G4950 | QS Coffee Lake-S | QP7W | B-0 | 2 MB | 8 GT/s DMI3 | 2 | 3.30 GHz | N/A | 54 W | DDR4-2400 | |
| Intel® Celeron® G4920 | QS Coffee Lake-S | QP5Y | B-0 | 2 MB | | 2 | 3.20 GHz | N/A | 54 W | DDR4-2400 | |
| Intel® Celeron® G4900 | QS Coffee Lake-S | QP9G | B-0 | 2 MB | | 2 | 3.10 GHz | N/A | 54 W | DDR4-2400 | |
| Intel® Celeron® G4900T | QS Coffee Lake-S | QP5Z | B-0 | 2 MB | | 2 | 2.90 GHz | N/A | 35 W | DDR4-2400 | |

**Memory**

| Product Name | Memory Type | Module Supplier | Size | Chip Brand | Rank | Voltage | Data Transfer Rate | Error Correction | CAS Latency | Pins | Note |
|---|---|---|---|---|---|---|---|---|---|---|---|
| ECC UDIMM | | | | | | | | | | | |
| M4C0-4GSSLCRG | DDR4 | INNODISK | 4GB | Samsung | | 1.2v | 2133MHz | ECC Unbuffer | 15 | 288-pin | |
| TS512MLH72V1H | DDR4 | Transcend | 4GB | Samsung | 1Rx8 | 1.2v | 2133MHz | ECC Unbuffer | 15 | 288-pin | |
| 78.B1GM4.AF00B | DDR4 | Apacer | 4GB | SKhynix | | 1.2v | 2133MHz | ECC Unbuffer | 15 | 288-pin | |
| M4C0-8GSSMCRG | DDR4 | INNODISK | 8GB | Samsung | | 1.2v | 2133MHz | ECC Unbuffer | 15 | 288-pin | |
| TS1GLH72V1H | DDR4 | Transcend | 8GB | Samsung | 2Rx8 | 1.2v | 2133MHz | ECC Unbuffer | 15 | 288-pin | |
| M391A1G43DB0-CPB | DDR4 | SAMSUNG | 8GB | Samsung | 2Rx8 | 1.2v | 2133MHz | ECC Unbuffer | 15 | 288-pin | |
| M391A2K43BB1-CPB | DDR4 | SAMSUNG | 16GB | Samsung | 2Rx8 | 1.2v | 2133MHz | ECC Unbuffer | 15 | 288-pin | |
| HMA81GU7AFR8N-UH T0 AA 1643 | DDR4 | Skhynix | 8GB | SKhynix | 1Rx8 | 1.2v | 2400MHz | ECC Unbuffer | 17 | 288-pin | |
| HMA81GU7AFR8N-UH T0 AA 1623 | DDR4 | Skhynix | 8GB | SKhynix | 1Rx8 | 1.2v | 2400MHz | ECC Unbuffer | 17 | 288-pin | |
| CT8G4WFD824A.18FB1 | DDR4 | Crucial | 8GB | Micron | 2Rx8 | 1.2v | 2400MHz | ECC Unbuffer | 17 | 288-pin | |
| KVR24E17S8/8MA | DDR4 | Kingston | 8GB | Micron | 1Rx8 | 1.2v | 2400MHz | ECC Unbuffer | 17 | 288-pin | |
| KVR24E17D8/16MA | DDR4 | Kingston | 16GB | Micron | 2Rx8 | 1.2v | 2400MHz | ECC Unbuffer | 17 | 288-pin | |
| HMA82GU7AFR8N-UH T0 AC 1626 | DDR4 | SKhynix | 16GB | SKhynix | 2Rx8 | 1.2v | 2400MHz | ECC Unbuffer | 17 | 288-pin | |
| M4C0-AGS1MCSJ | DDR4 | Innodisk | 16GB | Samsung | | 1.2v | 2400MHz | ECC Unbuffer | 17 | 288-pin | |
| M4C0-4GSSLCIK-D33 | DDR4 | Innodisk | 4GB | Samsung | | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| M4C0-8GS1LCIK-D33 | DDR4 | Innodisk | 8GB | Samsung | | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| 78.C1GSC.4050B | DDR4 | Apacer | 8GB | Samsung | | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| KSM26ES8/8ME | DDR4 | Kingston | 8GB | Micron | 1Rx8 | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| HMA81GU7CJR8N-VK T0 AC 1820 | DDR4 | Skhynix | 8GB | SKhynix | 1Rx8 | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| KSM26ED8/16ME | DDR4 | Kingston | 16GB | Micron | 2Rx8 | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| CT16G4WFD8266.18FD1 | DDR4 | Crucial | 16GB | Micron | 2Rx8 | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| 78.D1GSC.4010B | DDR4 | Apacer | 16GB | Samsung | | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| M4C0-AGS1MCIK-D33 | DDR4 | Innodisk | 16GB | Samsung | | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| HMA82GU7CJR8N-VK T0 AC 1801 | DDR4 | Skhynix | 16GB | Skhynix | 2Rx8 | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| M44A021 | DDR4 | Panram | 16GB | Panram | | 1.2v | 2666MHz | ECC Unbuffer | 19 | 288-pin | |
| KSM32ED8/16ME | DDR4 | Kingston | 16GB | | | 1.2v | 3200MHz | ECC Unbuffer | 22 | 288-pin | |
| KSM32ES8/8ME | DDR4 | Kingston | 8GB | | | 1.2v | 3200MHz | ECC Unbuffer | 22 | 288-pin | |
| M4C0-AGS1MCEM-D33 | DDR4 | innodisk | 16GB | | | 1.2v | 3200MHz | ECC Unbuffer | 22 | 288-pin | |

| Non ECC UDIMM | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 75.B93G2.G000B 4GB UNB | DDR4 | Apacer | 4GB | Samsung | 1Rx8 | 1.2v | 2133MHz | | 15 | 288-pin | |
| CT4G4DFS8213.8FA1 4GB | DDR4 | CRUCIAL | 4GB | Micron | 1Rx8 | 1.2v | 2133MHz | | 15 | 288-pin | |
| TS512MLH64V1H | DDR4 | Transcend | 4GB | Samsung | 1Rx8 | 1.2v | 2133MHz | | 15 | 288-pin | |
| 84G44G93MC-21OMCALGF15T | DDR4 | UMAX | 4GB | Micron | | 1.2v | 2133MHz | | 15 | 288-pin | |
| AD4U2133W4G15-BHYM | DDR4 | ADATA | 4GB | SKhynix | | 1.2v | 2133MHz | | 15 | 288-pin | |
| KVR21N15S8/4 | DDR4 | Kingston | 4GB | SKhynix | | 1.2v | 2133MHz | | 15 | 288-pin | |
| TS1GLH64V1H | DDR4 | Transcend | 8GB | Samsung | 2Rx8 | 1.2v | 2133MHz | | 15 | 288-pin | |
| 78.C1GM3.AF10B 8GB UNB | DDR4 | Apacer | 8GB | SKhynix | | 1.2v | 2133MHz | | 15 | 288-pin | |
| CT8G4DFD8213.16FA1 8GB | DDR4 | CRUCIAL | 8GB | Micron | 2Rx8 | 1.2v | 2133MHz | | 15 | 288-pin | |
| AD4U2133W8G15-BHYM | DDR4 | ADATA | 8GB | SKhynix | | 1.2v | 2133MHz | | 15 | 288-pin | |
| KVR21N15D8/8 | DDR4 | Kingston | 8GB | SKhynix | | 1.2v | 2133MHz | | 15 | 288-pin | |
| KVR24N17S8/8 | DDR4 | Kingston | 8GB | SKhynix | | 1.2v | 2400MHz | | 17 | 288-pin | |
| KVR24N17D8/16 | DDR4 | Kingston | 16GB | Micron | | 1.2v | 2400MHz | | 17 | 288-pin | |
| KVR26N19S8/8 | DDR4 | Kingston | 8GB | Micron | | 1.2v | 2666MHz | | 19 | 288-pin | |
| CT8G4DFS8266.8FB1 | DDR4 | CRUCIAL | 8GB | Micron | 1Rx8 | 1.2v | 2666MHz | | 19 | 288-pin | |
| KVR26N19D8/16 | DDR4 | Kingston | 16GB | Micron | | 1.2v | 2666MHz | | 19 | 288-pin | |
| CT16G4DFD8266.16FH1 | DDR4 | CRUCIAL | 16GB | Micron | 2Rx8 | 1.2v | 2666MHz | | 19 | 288-pin | |
| M4U0-AGS1KCEM-D33 | DDR4 | innodisk | 16GB | | | 1.2v | 3200MHz | | 22 | 288-pin | |
| **Seagate HDD (SAS HDD may need RAID Card support)** | | | | | | | | | | | |
| Product Name | Type | Vendor | Form Factor | Format | Capacity | Interface Speed | Series | Cache | RPM | Encryption | Note |
| Seagate Enterprise Capacity 2.5 HDD | | | | | | | | | | | |
| ST1000NX0313 | SATA | Seagate | 2.5" | 512e | 1TB | 6Gb/s | Exos 7E2000 (Enterprise Capacity V.3) | 128MB | 7200 | N/A | |
| ST2000NX0243 | SATA | Seagate | 2.5" | 4Kn | 2TB | 6Gb/s | Exos 7E2000 (Enterprise Capacity V.3) | 128MB | 7200 | N/A | |
| ST2000NX0253 | SATA | Seagate | 2.5" | 512E | 2TB | 6Gb/s | Exos 7E2000 (Enterprise Capacity V.3) | 128MB | 7200 | N/A | |
| Seagate Enterprise Capacity 3.5 HDD | | | | | | | | | | | |
| ST10000NM0016 | SATA | Seagate | 3.5" | 512e | 10TB | 6Gb/s | Exos X10 (Enterprise Capacity V.6) | 256MB | 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 | |
| **WD HDD** | | | | | | | | | | | |
| Product Name | Type | Vendor | Form Factor | Format | Capacity | Interface Speed | Series | Cache | RPM | Encryption | Note |
| Datacenter | | | | | | | | | | | |
| 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 | |
| WUS721010ALE6L4 | SATA | WD | 3.5" | 512e | 10TB | 6Gb/s | Ultrastar® DC HC330 | 256MB | 7200 | N/A | |
| **HGST HDD (SAS HDD may need RAID Card support)** | | | | | | | | | | | |
| Product Name | Type | Vendor | Form Factor | Format | Capacity | Interface Speed | Series | Cache | RPM | Encryption | Note |
| Enterprise Hard Drives | | | | | | | | | | | |
| HUH721212ALE604 | SATA | HGST / WD | 3.5" | 512e | 12TB | 6Gb/s | Ultrastar He12 | 256MB | 7200 | N/A | |
| **Toshiba HDD (SAS HDD may need RAID Card support)** | | | | | | | | | | | |
| Product Name | Type | Vendor | Form Factor | Format | Capacity | Interface Speed | Series | Cache | RPM | Encryption | Note |
| Enterprise Hard Drives | | | | | | | | | | | |
| MG04ACA600E | SATA | Toshiba | 3.5" | 512e | 6TB | 6Gb/s | Capacity | 128MB | 7200 | N/A | |
| MG05ACA800A | SATA | Toshiba | 3.5" | 4Kn | 8TB | 6Gb/s | Capacity | 128MB | 7200 | N/A | |
| MG05ACA800E | SATA | Toshiba | 3.5" | 512e | 8TB | 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 | |
| **SATA/SAS SSD** | | | | | | | | | | | |
| Product Name | Type | Vendor | Form Factor | Interface | Capacity | Interface Speed | FW | Note | | | |
| SATA/SAS SSD | | | | | | | | | | | |
| SSDSC2KB960G701 (Series DC S4500) | SSD | Intel | 2.5" | SATA | 960GB | 6Gb/s | | | | | |
| SSDSC2KG019T701 (Series DC S4600) | SSD | Intel | 2.5" | SATA | 1.92TB | 6Gb/s | | | | | |
| MZ7KM1T9HMJP-0005 (SM863a) | SSD | Samsung | 2.5" | SATA | 1.92TB | 6Gb/s | | | | | |
| Micron 5100 MTFDDAK960TBY-1AR1ZABYY | SSD | Micron | 2.5" | SATA | 960GB | 6Gb/s | | | | | |
| MTFDDAK1T9TDN-1AT1ZABYY (5200 MAX) | SSD | Micron | 2.5" | SATA | 1.92TB | 6Gb/s | | | | | |
| MZ-7LH1T9NE 883 DCT Series | SSD | Samsung | 2.5" | SATA | 1.92TB | 6Gb/s | | | | | |
| SSDSC2KG019T8 D3-S4610 Series | SSD | Intel | 2.5" | SATA | 1.92TB | 6Gb/s | | | | | |
| SSDSC2KB019T8 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 | | | | | |
| KHK61RSE960G | SSD | Toshiba | 2.5" | SATA | 960GB | 6Gb/s | | | | | |
| **PCIe SSD** | | | | | | | | | | | |
| Product Name | Type | Vendor | Form Factor | Interface | Capacity | Interface Speed | Note | | | | |
| PCIe SSD | | | | | | | | | | | |
| SSDPEDKX040T701 P4500 Series PCIe Gen3 x4 4TB | PCIe | Intel | PCI-E 3.0 | PCIe(NVMe) | 4TB | - | | | | | |
| Samsung PM1725a MZPLL1T6HEHP PCIe Gen3 x8 1.6TB | PCIe | Samsung | PCI-E 3.0 | PCIe(NVMe) | 1.6TB | - | | | | | |
| Samsung PM1725b MZPLL3T2HAJQ PCIe Gen3 x8 3.2TB | PCIe | Samsung | PCI-E 3.0 | PCIe(NVMe) | 3.2TB | Gen3 x8 | | | | | |
| **M.2** | | | | | | | | | | | |
| Product Name | Type | Vendor | Form Factor | Interface | Capacity | Interface Speed | Note | | | | |
| M.2 | | | | | | | | | | | |
| SSDPEKKA256G701 P3100 Series 256GB | M.2 | Intel | 2280 | PCIe(NVMe) | 256GB | | | | | | |
| SSDPEKKA010T701 P3100 Series 1TB | M.2 | Intel | 2280 | PCIe(NVMe) | 1TB | | | | | | |
| MZVPV512HDGL | M.2 | Samsung | 2280 | PCIe(NVMe) | 512GB | | | | | | |
| IM2P33F8-512GD | M.2 | ADATA | 2280 | PCIe(NVMe) | 512GB | - | | | | | |
| **Graphics Card (GPGPU server & Workstation server only)** | | | | | | | | | | | |
| Product Name | Processer Cores | Memory Bandwidth (GB/sec) | OpenGL | | Microsoft DirectX | Graphics Card Power (W) | NVIDIA SLI / AMD CrossFire Ready | Note | | | |
| Nvida GeForce (http://www.geforce.com/hardware) | | | | | | | | | | | |
| Geforce TITAN XP (Pascal) | 3840 | 547.7 GB/s | 4.5 | | 12 | 250W | Yes (4-way) | | | | |
| Geforce 1080 Ti | 3584 | 484 GB/s | 4.5 | | 12 | 250W | Yes (4-way) | | | | |
| Geforce TITAN X (Pascal) | 3584 | 480.5 GB/s | 4.5 | | 12 | 250 W | Yes (4-way) | | | | |
| GV-N1080NC-8GD GTX1080 G1 Gaming (passive heatsink) (Pascal) | 2560 | 320 GB/s | 4.5 | | 12 | 180 W | Yes (2-way) | | | | |
| GTX1070 G1 Gaming (passive heatsink) (Pascal) | 1920 | 256 GB/s | 4.5 | | 12 | 150 W | Yes (2-way) | | | | |
| GTX1060 G1 Gaming (passive heatsink) (Pascal) | 1280 | 192 GB/s | 4.5 | | 12 | 120 W | | | | | |
| GeForce GTX 1080 founders edition (Pascal) | 2560 | 320 GB/s | 4.5 | | 12 | 180 W | Yes (2-way) | | | | |
| GeForce GTX 1070 founders edition (Pascal) | 1920 | 256 GB/s | 4.5 | | 12 | 150 W | Yes (2-way) | | | | |
| GeForce GTX 1060 founders edition (Pascal) | 1280 | 192 GB/s | 4.5 | | 12 | 120 W | | | | | |
| GeForce GTX 750 | 512 | 80 | 4.4 | | 11.2 | 55 W | SLI-Ready | | | | |
| GeForce GTX 960 | 1024 | 112 | 4.4 | | 12 API | 120w | | | | | |
| GeForce GTX 970 | 1664 | 224 | 4.4 | | 12 API | 145w | | | | | |
| GeForce GTX 980 | 2048 | 224 | 4.4 | | 12 API | 165w | | | | | |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| GeForce GTX 1050Ti | 768 | 112 | 4.5 | | 12 API | 75w | | | | | | |
| GeForce GT 740 | 384 | 28.8 | 4.4 | | 12 API | 64 W | - | | | | | |
| GeForce GT 730 (DDR3, 128-bit) | 96 | 28.8 | 4.4 | | 12 API (feature level 11_0) | 49 W | - | | | | | |
| GeForce GT 610 | 48 | 14.4 | 4.2 | | 11 | 29 W | - | | | | | |
| GeForce 210 | 16 | 8 | 3.1 | | - | 30.5 W | - | | | | | |
| **RAID Cards** | | | | | | | | | | | | |
| Model | RAID-on-Chip Controller | Host Bus Type | Internal Ports | Internal Connectors | External Ports | External Connectors | Data Transfer Rates | Note | | | | |
| GIGABYTE Storage Cards | | | | | | | | | | | | |
| GC-MSEE4 | Marvell 9230 | PCIe- x4 Gen2 x4 bus | 4 | SATA III | - | - | 6Gb/s ports | | | | | |
| GC-MSLZ2 | LSI SAS 2008 | PCIe- x8 Gen2 x8 bus | 8 | 2 x Mini-SAS for 8x SAS | - | - | 6Gb/s ports | | | | | |
| RA200-8 | LSI SAS 2308 | PCIe- x8 Gen3 x8 bus | 8 | 2 x Mini-SAS for 8x SAS | - | - | 6Gb/s ports | | | | | |
| RA201-A | LSI SAS 2208 | PCIe- x8 Gen3 x8 bus | 8 | 2 x Mini-SAS for 8x SAS | - | - | 6Gb/s ports | | | | | |
| CRA3338 | LSI SAS 3208 | PCIe- x8 Gen3 x8 bus | 8 | 2 xMini-SAS HD for 8x SAS | - | - | 12Gb/s ports | | | | | |
| CSA3548 | LSI SAS 3008 | PCIe- x8 Gen3 x8 bus | - | - | 8 | 2 x external Mini-SAS HD SFF8644 | 12Gb/s ports | | | | | |
| CRA4548 | LSI SAS 3108 | PCIe- x8 Gen3 x8 bus | 4 | 1 x internal Mini-SAS HD SFF8643 | 4 | 1 x external Mini-SAS HD SFF8644 | 12Gb/s ports | | | | | |
| CRA4448 | LSI SAS 3108 | PCIe- x8 Gen3 x8 bus | 8 | 2 x internal Mini-SAS HD | - | - | 12Gb/s ports | | | | | |
| LSI RAID Controller Cards | | | | | | | | | | | | |
| MegaRAID SAS 9341-8i | LSISAS3008 PowerPC 476 controller @ 1.2 GHz | x8 lane PCI Express® 3.0 | 8 | 2 x HD Mini-SAS SFF8643 (Horizontal | - | - | Up to 12Gb/s per port | | | | | |
| MegaRAID SAS 9271-8i | LSISAS2208 Dual-Core RAID on Chip (ROC) | x8 lane PCI Express® 3.0 | 8 | 2 x Mini-SAS SFF8087 (side mount) | - | - | Up to 6Gb/s per port | | | | | |
| MegaRAID SAS 9361-8i | LSISAS3108 dual core RAID on Chip (ROC) | x8 lane PCI Express® 3.0 | 8 | 2 x HD Mini-SAS SFF8643 (Horizontal | - | - | Up to 12Gb/s per port | | | | | |
| MegaRAID SAS 9460-16i | SAS3516 dual-core RAID-on-Chip (ROC) | x8 lane PCI Express® 3.1 | 8 | 4 x Mini-SAS HD SFF-8643 | - | - | 12Gb/s SAS 3.0 | | | | | |
| LSI Host Bus Adapters (HBAs) | | | | | | | | | | | | |
| LSI SAS 9300-8e | SAS3008 | x8 lane PCI Express® 3.0 | - | - | 8 | 2 x mini-SAS HD SFF8644 | 12Gb/s SAS 3.0 | | | | | |
| LSI SAS 9300-8i | SAS3008 | x8 lane PCI Express® 3.0 | 8 | 2 x Mini-SAS HD SFF-8643 | - | - | 12Gb/s SAS 3.0 | | | | | |
| LSI SAS 9400-16i | SAS3416 | x8 lane PCI Express® 3.1 | 16 | 4 x Mini-SAS HD SFF-8643 | - | - | 12Gb/s SAS 3.0 | | | | | |
| PMC RAID Cards (Adaptec) | | | | | | | | | | | | |
| Adaptec ASR-81605ZQ | - | 8-lane PCIe Gen3 | 16 | 4 x internal mini SAS HD (SFF-8643) | - | - | 12Gb/s per port | | | | | |
| Microsemi RAID Cards | | | | | | | | | | | | |
| SmartRAID 3154-8i | PM8204 | 8-Lane PCIe Gen3 | 8 | 2 x Internal, SFF-8643 | - | - | 12 Gb/s per port | | | | | |
| SmartRAID 3154-16i | PM8236 | 8-Lane PCIe Gen3 | 16 | 4 x Internal, SFF-8643 | - | - | 12 Gb/s per port | | | | | |
| Microsemi Host Bus Adapters | | | | | | | | | | | | |
| HBA 1100-16i | PM8242 | 8-Lane PCIe Gen3 | 16 | 4 x Internal, SFF-8643 | - | - | 12 Gb/s per port | | | | | |
| HBA 1100-24i | PM8238 | 8-Lane PCIe Gen3 | 24 | 6 x Internal, SFF-8643 | - | - | 12 Gb/s per port | | | | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| SmartHBA 2100-8i | PM8222 | 8-Lane PCIe Gen3 | 8 | 2 x Internal, SFF-8643 | - | - | 12 Gb/s per port | |
| Microsemi Expander Card | | | | | | | | |
| **LAN Cards** | | | | | | | | |
| Product Name | Connector | System Interface Type | | # of Ports | System Interface Type | Data rate | Note | |
| GIGABYTE LAN Cards | | | | | | | | |
| CLN4831 | SFP+ | PCIe x8 Gen2 x8 | | Single | 10Gb/s per port | | | |
| CLN4832 | SFP+ | PCIe x8 Gen2 x8 | | Dual | 10Gb/s per port | | | |
| CLN4751 | QSFP+ | PCIe x8 Gen3 x8 | | Single | 40Gb/s per port | | | |
| CLN4752 | QSFP+ | PCIe x8 Gen3 x8 | | Dual | 40Gb/s per port | | | |
| CLN4C42 | SFP28 | PCIe Gen3 x16 | | Dual | 25Gb/s per port | | | |
| CLN4C44 | SFP28 | PCIe Gen3 x16 | | Quad | 25Gb/s per port | | | |
| CLN4M34 | SFP28 | PCIe Gen3 x16 | | Quad | 10Gb/s per port | | | |
| CLN4312 | RJ-45 | PCIe x4 Gen2 x4 | | Dual | 1Gb/s per port | | | |
| CLN4314 | RJ-45 | PCIe x4 Gen2 x4 | | Quad | 1Gb/s per port | | | |
| GC-MNXE21 | SFP+ | PCIe x8 Gen3 x8 | | Dual | 10Gb/s per port | | | |
| GC-MLBZ1 | SFP+ | PCIe x8 Gen2 x8 | | Dual | 10Gb/s per port | | | |
| 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 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 | | | |
| Intel® True Scale Fabric QLE7342 | Quad small form-factor pluggable (QSFP) | PCIe Gen2 x8 | | Dual | 10G/20G/40Gb/s per port | | | |
| Mellanox ConnectX | | | | | | | | |
| MCX4121A-ACAT | SFP28 | PCIe Gen3 x8 | | Dual | 25Gb/s per port | | | |
| MCX516A-CCAT | QSFP28 | PCIe Gen3 x16 | | Dual | 100Gb/s per port | | Mellanox ConnectX-5 EN | |
| MCX515A-CCAT | QSFP28 | PCIe Gen3 x16 | | Single | 100Gb/s per port | | Mellanox ConnectX-5 EN | |
| Mellanox ConnectX®-3 VPI Adapter Cards | | | | | | | | |
| MCB194A-FCAT | QSFP | PCIe 3.0 | | Dual | FDR IB (56Gb/s) | | | |
| MCX354A-FCBT | QSFP | PCIe 3.0 | | Dual | FDR and 40/56GbE | | | |
| MCX555A-ECAT | QSFP28 | PCIe 3.0 x16 | | Single | 100Gb/s per port | | Mellanox ConnectX-5 VPI (InfiniBand) | |
| Solarflare Onload Server Adapters | | | | | | | | |
| SFN7322F | SFP+ | 8.0GT/s (Gen3) | | Dual | 10Gb/s per port | | | |
| SFN6122F | SFP+ | 5.0GT/s (Gen2) | | Dual | 10Gb/s per port | | | |
| Qlogic LAN Adapters | | | | | | | | |
| QLE3442-CU-CK | SFP+ | PCIe x8 Gen3 x8 | | Dual | 10Gb/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 | | | |
| QL41112HLRJ | RJ-45 | PCIe x8 Gen3 x8 | | Dual | 10Gb/s per port | | | |
| QL45611HLCU | QSFP28 | PCIe x16 Gen3 x16 | | Single | 100Gb/s per port | | | |
| QLE3442-RJ-CK | RJ-45 | PCIe x8 Gen3 x8 | | Dual | 10Gb/s per port | | | |
| Broadcom (Emulex) Ethernet Networking Adapters | | | | | | | | |
| BCM957414A4142CC | SFP28 | PCIe 3.0 x8 | | Dual | 25Gb/s per port | | BCM57414 | |
| **PSU** | | | | | | | | |
| Product Name | Vendor | Input Voltage | Wattage | Application | Effciency | Note | | |
| | | | | | | | | |
| FSP1200-50AAG | FSP | 100~240Vac | 1200W | Desktop | N/A | | | |
| FSP1000-50AAG | FSP | 100~240Vac | 1000W | Desktop | N/A | | | |
| FSP850-50AAG | FSP | 100~240Vac | 850W | Desktop | N/A | | | |

| | | | | | | |
|---|---|---|---|---|---|---|
| SS-1250XM | SeaSonic | 100~240Vac | 1250W | Desktop | 80Gold | |

| USB Device | | | | |
|---|---|---|---|---|
| Product Name | Type | Vendor | Capacity | Note |
| USB 3.0 | | | | |
| PURE CLASSIC X176B1FWBO75 | HDD | Gigabyte | 500G | |
| GoFlex STAA500305 | HDD | Seagate | 500G | |
| TOSHIBA CANVIO BASIC | HDD | Toshiba | 500G | |
| ADATA SUPERIOR S102 PRO 8GB | Flash | ADATA | 8G | |
| NA317U+ | Device | ineo | | |
| SST-TS13 | Device | Silver Stone | | |
| MB981U3-1S | Device | ICYDOCK | | |
| i310-SB3(6G) | Device | STARDOM | | |