

| Description of the component/accessory/option | Vendor Name | Supplier reference and Part Number | | Revision Firmware Stepping |
|--|-------------|------------------------------------|------------------|----------------------------|
| | | model number | part number | |
| TE Socket LGA3647-0 (MB support power consumption up to 205w) | | Base Frequency | Code Name | Stepping level |
| Intel Xeon Platinum 8160 CPU @2.10GHZ 150w | Intel | 2.10GHZ | Skylake-Server | H-0 |
| QMS6 Intel Xeon® Gold 6130 CPU@2.10GHZ 125w | Intel | 2.10GHZ | Skylake-Server | H-0 |
| QN7D Intel(R) Xeon(R) Gold 6144 CPU @ 3.50GHZ 150w | Intel | 3.50GHZ | Skylake-Server | H-0 |
| QN38 Intel(R) Xeon(R) Gold 6130T CPU @ 2.10GHZ 125w | Intel | 2.10GHZ | Skylake-Server | H-0 |
| QRG6 Intel(R) Xeon(R) Silver 4214 CPU @ 2.20GHZ 85w | Intel | 2.20GHZ | Cascade Lake | L-0 |
| QRAD Intel(R) Xeon(R) Gold 6230 CPU @ 2.10GHZ 125w | Intel | 2.10GHZ | Cascade Lake | B-0 |
| QPJF Intel(R) Xeon(R) Silver 4210 CPU @ 2.20GHZ 85w | Intel | 2.20GHZ | Cascade Lake | R-0 |
| QRGH Intel(R) Xeon(R) Gold 5220 CPU @ 2.20GHZ 125w | Intel | 2.20GHZ | Cascade Lake | L-0 |
| QRGE Intel(R) Xeon(R) Gold 5218 CPU @ 2.30GHZ 125w | Intel | 2.30GHZ | Cascade Lake | L-0 |
| QRG9 Intel(R) Xeon(R) Gold 5215 CPU @ 2.50GHZ 85w | Intel | 2.50GHZ | Cascade Lake | L-0 |
| QS1V Intel(R) Xeon(R) Gold 6226 CPU @ 2.70GHZ 125w | Intel | 2.70GHZ | Cascade Lake | B-1 |
| QS1Y Intel(R) Xeon(R) Gold 6230T CPU @ 2.10GHZ 125w | Intel | 2.10GHZ | Cascade Lake | B-1 |
| QRC1 Intel(R) Xeon(R) Platinum 8260C CPU @ 2.40GHZ 165w | Intel | 2.40GHZ | Cascade Lake | B-0 |
| QRKZ Intel(R) Xeon(R) Platinum 8280M CPU @ 2.70GHZ 205w | Intel | 2.70GHZ | Cascade Lake | B-0 |
| SRGZG Intel(R) Xeon(R) Processor 6248R CPU @ 3.00GHZ 205w | Intel | 3.00GHZ | Cascade Lake | B-1 |
| SRGZF Intel(R) Xeon(R) Processor 6258R CPU @ 2.70GHZ 205w | Intel | 2.70GHZ | Cascade Lake | B-1 |
| SRGZ8 Intel(R) Xeon(R) Processor 6240R CPU @ 2.40GHZ 165w | Intel | 2.40GHZ | Cascade Lake | B-1 |

| Register Memory | | Model Name | P/N | Remark |
|----------------------|----------|--------------------------------|-------------------------|------------------------|
| 16G DDR4 2400 R-DIMM | ADATA | 16GB DDR-2400 RDIMM | AD4R2400316G17-BSSB | |
| | Kingston | 16GB 1Rx4 PC4-2400T-RC1-11 | KVR24R17S4/16MA | |
| 16G DDR4 2666 R-DIMM | Crucial | 16GB DDR4-2666 RDIMM 1.2V CL19 | CT16G4RFD8266-2G6E1.001 | MTA18ASF2G72PDZ-26E1QG |
| | InnoDisk | 16GB DDR4-2666 RDIMM | M4R0-AGS3ECIK-E84 | |
| 32G DDR4 2666 R-DIMM | Micron | 16GB 2Rx8 PC4 2666V | MTA18ASF2G72DZ-2G6E1S1 | |
| | Crucial | 32GB DDR4-2666 RDIMM 1.2V CL19 | CT32G4RFD4266-2G6E1.001 | MTA36ASF4G72PZ-2G6E1RK |
| | Crucial | 32GB DDR4-2666 RDIMM 1.2V CL19 | CT32G4RFD4266-2G6E1.001 | MTA36ASF4G72PZ-2G6E1QI |
| | Kingston | 32GB DDR4-2666 RDIMM 1.2V | KSM26RD4/32HAI | Memory Speed : 2666MHz |
| | Crucial | 32GB DDR4-2666 RDIMM 1.2V CL19 | CT32G4RFD4266-2G6E1.001 | MTA36ASF4G72PZ-2G6E1RG |
| | Samsung | 32GB DDR4-2666 RDIMM | M393A4K40CB2-CTD7Q M | Memory Speed : 2666MHz |
| 16G DDR4 2933 DIMM | Crucial | 16GB DDR4-2933 RDIMM 1.2V CL21 | CT16G4RFD8293-2G9E1.001 | |
| | Kingston | 16GB DDR4-2933 RDIMM 1.2V | KSM29RS4/16MEI | Memory Speed : 2933MHz |
| 32G DDR4 2933 R-DIMM | Crucial | 32GB DDR4-2933 RDIMM 1.2V CL21 | CT32G4RFD4293-2G9E2.001 | MTA36ASF4G72PZ-2G9E2UG |
| | Micron | 32GB 2Rx4 PC4 2933Y | MTA36ASF4G72PZ-2G9J3TI | |
| | Micron | 32GB 2Rx8 PC4 2933Y | MTA18ASF4G72PDZ-2G9E1UI | |
| | SKhynix | 32GB 2Rx4 PC4-2933Y | HMA84GR7CJR4N-WM-T4-AD | |
| | Kingston | 32GB 2Rx4 PC4-2933Y-RB2-12 | KSM29RD4/32MEI | Memory Speed : 2933MHz |

| LRDIMM Memory | | Model Name | P/N | Remark |
|-----------------------|----------|----------------------------|----------------------|------------------------|
| 64G DDR4 2400 LR-DIMM | Samsung | 64GB DDR4-2400 LRDIMM | M386A8K40BM1-CRC4Q M | Memory Speed : 2400MHz |
| | SKhynix | 64GB 4DRx4 PC4-2666V | HMAA8GL7CPR4N | |
| 64G DDR4 2666 LR-DIMM | Kingston | 64GB DDR4-2666 LRDIMM 1.2V | KSM26LQ4/64HCI | |
| | Kingston | 64GB DDR4-2666 LRDIMM 1.2V | KSM26LQ4/64HAI | Memory Speed : 2666MHz |

| NVDIMM | | NVDIMM | P/N | SUPERCAP |
|----------------------|---------|-------------------------------------|------------------------------|--------------------------------------|
| 8G DDR4 2666 NVDIMM | Netlist | 8GB 1Rx4 NN4-2666V-RZZZ-10 | NV4884SET31-422NL0002 | UPMU 340F(1) 22'(1)NV4 P UC220-8-7 |
| | Micron | 16GB 1RX4 NN4-2666V-RZZZ-10 | MTA18ASF2G72PF1Z-2G6V21ABSGD | AGIGA TECH Power GEM AGIGA9811001JCB |
| 16G DDR4 2666 NVDIMM | Netlist | 16GB 1Rx4 NN4-2666V-RZZZ-10 | NV4A84SBT31-411NL0002 | UPMU 340F(1) 22'(1)NV4 P UC220-8-7 |
| | Smart | SafeStor 16GB 1RX4 NN4-2666V-RXXX10 | SH2047NJ420493SB | ENES17310401 SSC20041SMT0051B |
| | Viking | 16GB 1Rx4 PC4-2666-RZZ-19 | VRA9MRAB2K32PN4E | VRNH090FH61C1N |



| NVDIMM | | NVDIMM | P/N | SUPERCAP |
|----------------------|--------|------------------------------------|------------------------------|---------------------------|
| 16G DDR4 2666 NVDIMM | Viking | 16GB 1Rx4 PC4-2666-RZZ-19/E8.06.04 | VRA9MRAB2K32PN4D | Power Responder 4.0V 160F |
| 32G DDR4 2933 NVDIMM | Micron | 32GB 2DRx4 NN4 2933Y | MTA36ASS4G72PF1Z-2G9PR1ABVGD | |

| Intel DCPMM | | Model Number | P/N | Remark |
|-------------|--|--------------|---------------|--------|
| 128G | | | NMA1XDB256GQS | |
| 512G | | | NMA1XDB512GQS | |

| SATA 2.5" SSD | | Model Number | P/N | Type |
|--|---------|---------------|--------------------|------|
| 161 ~ 500GB | | | | |
| Samsung PM883 2.5" 480GB SSD(SATA 6.0Gbps) | Samsung | MZ-7LH4800 | MZ7LH480HAHQ-00005 | |
| Intel® SSD 540s Series 480GB2.5" 6Gb/s | INTEL | SSDSC2KW480H6 | SSDSC2KW480H6 | |
| Intel 2.5" SATA SSD DC-S4600 Series 240GB | INTEL | SSDSC2KG240G7 | | |
| Intel 2.5" SATA SSD D3-S4610 Series 480GB | INTEL | SSDSC2KG480G8 | | |

| SATA M.2 SSD | | Model Number | P/N | Type |
|--|--------------------|-------------------------|-------------------------|------|
| <= 500GB | | | | |
| Phison M.2 2280 256GB PS3110SSD | Phison | SM8256GPTCB3B-S10C-12 | | |
| Phison M.2 2280 128GB PS5008 SSD | Phison | ESO128GTLC9-E8C-2 | | |
| Smart SVM2P4A240GMT51 M.2 2242 | Smart | SVM2P4A240GMT51 | M.2 2242 PCIE GEN 3 x 2 | |
| Smart SVM2P4A480GMT51 M.2 2242 | Smart | SVM2P4A480GMT51 | M.2 2242 PCIE GEN 3 x 2 | |
| Smart SVM2S46256GNT51 M.2 2242 | Smart | SVM2S46256GNT51 | M.2 2242 SATA | |
| Smart SVM2S46512GNT51 M.2 2242 | Smart | SVM2S46512GNT51 | M.2 2242 SATA | |
| Phison M.2 128GB SM8128GPYCJGBAIC-S112 | Phison | SM8128GPYCJGBAIC-S112 | SATA 3.2, 6.0 Gb/s | |
| Phison M.2 256GB SM8256GPYCJGBAIC-S112 | Phison | SM8256GPYCJGBAIC-S112 | SATA 3.2, 6.0 Gb/s | |
| Phison M.2 512GB SM8512GPYCJGBAIC-S114 | Phison | SM8512GPYCJGBAIC-S114 | SATA 3.2, 6.0 Gb/s | |
| Ventura M.2 512GB V512GB2280 | Ventura | V512GB2280 512GB | SATA 3.0, 6.0 Gb/s | |
| MEMPHIS Electronic 256GB M.2 Sata SSD | MEMPHIS Electronic | MEM256GS8T-S30R72-PM3TC | SATA 3.2, 6.0 Gb/s | |
| Micron 5100 pro 240GB M.2 SATA SSD | Micron | MTFDDAV240TCB | SATA 3.2, 6.0 Gb/s | |
| Lite-on ER2-GD480 M.2 SATA SSD | Lite-on | ER2-GD480 | SATA 3.1, 6.0 Gb/s | |

| PCIe M.2 SSD | | Model Number | P/N | Remark |
|--------------------------------------|---------|---------------------------------|-------------------------------------|--|
| <= 500GB | | | | |
| acpi M.2 M2PDD-8L 512GB | acpi | M2PDD-8L 512GB | 512GB M.2 2280 PCIe Gen.3 x4 | |
| XPG M.2 AGAMMIXS50-1TT-C 1TB 2280 | XPG | AGAMMIXS50-1TT-C 1TB | XPG GAMMIX S50 PCIe Gen4x4 M.2 2280 | Performance is limited by M.2 slot PCIe lane width |
| Apacer AS2280Q4 M.2 PCIe 500GB | Apacer | AS2280Q4 M.2 PCIe Gen4 x4 500GB | AP500GAS2280Q4 | Performance is limited by M.2 slot PCIe lane width |
| Samsung M.2 MZVLB512HBJQ-00000 512GB | Samsung | PCIe Gen3 x4 M.2 512GB | MZVLB512HBJQ-00000 | Performance is limited by M.2 slot PCIe lane width |

| NIC CARDS (see motherboard section for LOM) | | Model Name | P/N | Remark |
|---|----------|---|-----------------------|---------------------------------|
| Intel Ethernet Network Adapter XXV710 (25G SFP+) | Intel | | | Test with 25GB SFP+ cable |
| Intel Ethernet Server Adapter X520-DA2 (10G SFP+) | Intel | | | Test with 10GB SFP+ cable |
| Intel Ethernet Server Adapter XL710-QDA2 (40G SFP+) | Intel | | | Test with 40GB SFP+ cable |
| Intel Ethernet OCP E810XXVDA2OCPG1 | Intel | E810XXVDA2OCPG1 | | Columbiaville 25 (OCP 2 Type 1) |
| Intel Ethernet E810XXVDA4G1P5 | Intel | E810XXVDA4G1P5 | | Columbiaville 25 (PCIe FH) |
| Intel Ethernet E810CQDA2G1P5 | Intel | Dual Port 100 Gb/s Network Interface Card | E810CQDA2G1P5 | Columbiaville 100 (PCIe) |
| Intel Ethernet E810-CQDA2 | Intel | Dual Port 100 Gb/s Network Interface Card | E810-CQDA2 | |
| Broadcom BCM957412A4120AC Network Interface Card (10G SPF+) | Broadcom | | | Test with 10GB SFP+ cable |
| Broadcom BCM957412M4123C OCP Mezzanine Card (10G SPF+) | Broadcom | | BCM957412M4123 | Test with 10GB SFP+ cable |
| Broadcom BCM957414M4142C OCP Mezzanine Card (25G SPF+) | Broadcom | | | Test with 25GB SFP+ cable |
| Broadcom BCM957412M4122C-M125P | Broadcom | 1x25G OCP 2.0 | BCM957412M4122C-M125P | |
| Broadcom BCM57416B1KFSBG | Broadcom | OCP V2.0 10GBase-T (RJ45) dual port | BCM57416B1KFSBG | |
| Broadcom BCM957302M3020 | Broadcom | OCP V2.0 10G SFP+ dual port | BCM957302M3020 | |
| Broadcom BCM957412A4120AC_04 | Broadcom | PCIe standard slot 10G SFP+ dual port | BCM957412A4120AC_04 | |
| Broadcom BCM95720A2003G | Broadcom | PCIe standard slot 1GbE dual port | BCM95720A2003G | |
| Broadcom BCM957508-P2100G | Broadcom | BCM957508-P2100G Dual Port 100Gbs | BCM957508-P2100G | |



| NIC CARDS (see motherboard section for LOM) | | Model Name | P/N | Remark |
|--|----------|---|----------------|---------------------------------|
| Intel I350-T4V2 | Intel | Intel Ethernet Server Adapter | I350T4G2P20 | |
| Qlogic Intelligent Ethernet Adapters 25G dual port (PCIe X8 Gen3) | QLOGIC | QL45212HLCU-CK(Dual25G) | BC0110405-07F | |
| Qlogic Intelligent Ethernet Adapter 100G single port (PCIe X16 Gen3) | QLOGIC | QL45611HLCU-CK(Single100G) | BC0110401-05 F | |
| Qlogic Intelligent Ethernet Adapter 25G dual port (OCP X8 Gen3) | QLOGIC | QL41232HOCU(Dual25G) | AH2010407-11 A | Only compatible with OCP slot-B |
| Qlogic Intelligent Ethernet Adapters 25G dual port (PCIe X8 Gen3) | QLOGIC | QL41212HLCU-CK(Dual25G) | AH2010406-01 A | |
| Intel Ethernet X550T1G1P5 | Intel | X550T1G1P5 | | |
| Mellanox Dual port 25 Gb/s Network Interface Card for OCP | Mellanox | MCX4421A_ACQN | | |
| Broadcom BCM957412M4122C-M125P | Broadcom | 1x25G OCP 2.0 | | |
| Mellanox MCX516A-CDAT | Mellanox | MCX516A-CDAT Dual Port 100Gbs | MT1838J01986 | |
| Mellanox MCX4121A-XCAT | Mellanox | MCX4121A-XCAT Dua Port 10 Gb | MT1708X01740 | |
| Mellanox ConnectX-4 Lx EN Network Interface Card 25GbE Dual-Port | Mellanox | MCX4121A-ACAT | | |
| Intel X710-DA4 | Intel | Intel Ethernet Converged Network Adapter X710-DA4 | EX710DA4G1P5 | |

| Supported OSs | | | Kernel version | |
|--|--|--|----------------|--|
| Windows Server 2022 DataCenter (onboard SATA AHCI mode x64) | | | | |
| Windows Server 2019 DataCenter (onboard SATA AHCI mode x64) | | | | |
| Windows Server 2012 DataCenter (onboard SATA AHCI mode x64) | | | | |
| Windows 10 Enterprise (onboard SATA AHCI mode x64) | | | | |
| Windows Server 2016 Datacenter (onboard SATA AHCI mode x64) | | | | |
| Red Hat Enterprise Linux 7.3 (onboard SATA AHCI mode x64) | | | | |
| Red Hat Enterprise Linux 7.2 (onboard SATA AHCI mode x64) | | | | |
| Red Hat Enterprise Linux 7.1 (onboard SATA AHCI mode x64) | | | | |
| CentOS 7.9 (onboard SATA AHCI mode x64) | | | | |
| CentOS 7.9 (onboard SATA-Raid1 mode x64) | | | | |
| CentOS 7.3 (onboard SATA AHCI mode x64) | | | | |
| CentOS 7.2 (onboard SATA AHCI mode x64) | | | | |
| CentOS 7.1 (onboard SATA AHCI mode x64) | | | | |
| SuSE Linux Enterprise Server 12 (onboard SATA AHCI mode x64) | | | | |
| SuSE Linux Enterprise Server 11 SP3 (onboard SATA AHCI mode x64) | | | | |
| Ubuntu Server 16.04 (onboard SATA AHCI mode x64) | | | | |
| CentOS 8.2 (64 bit) Linux version 4.18.0-193.el8.x86_64 | | | | |
| Ubuntu Desktop 22.04.1 | | | | |
| Ubuntu Desktop 20.04.1 | | | | |
| Ubuntu Server20.04.1 | | | | |

| Supported UEFI OSs | | | | |
|---|--|--|--|--|
| Windows Server 2022 DataCenter (onboard SATA AHCI mode x64) | | | | |
| Windows Server 2019 DataCenter (onboard SATA AHCI mode x64) | | | | |
| Windows Server 2012 DataCenter (onboard SATA AHCI mode x64) | | | | |
| Windows 10 Enterprise (onboard SATA AHCI mode x64) | | | | |
| Windows Server 2016 Datacenter (onboard SATA AHCI mode x64) | | | | |
| Red Hat Enterprise Linux 7.3 (onboard SATA AHCI mode x64) | | | | |
| Red Hat Enterprise Linux 7.2 (onboard SATA AHCI mode x64) | | | | |
| Red Hat Enterprise Linux 7.1 (onboard SATA AHCI mode x64) | | | | |
| CentOS 7.9 (onboard SATA AHCI mode x64) | | | | |
| CentOS 7.9 (onboard SATA-Raid1 mode x64) | | | | |
| CentOS 8.2 (64 bit) Linux version 4.18.0-193.el8.x86_64 | | | | |
| Ubuntu Desktop 22.04.3 | | | | |
| Ubuntu Server 22.04.3 (onboard SATA-Raid0 mode x64) | | | | |
| Ubuntu Server 22.04.3 (onboard SATA-Raid1 mode x64) | | | | |
| Ubuntu Desktop 22.04.1 | | | | |
| Ubuntu Server 22.04.1 (onboard SATA-Raid0 mode x64) | | | | |
| Ubuntu Server 22.04.1 (onboard SATA-Raid1 mode x64) | | | | |
| Ubuntu Desktop 20.04.1 | | | | |



| Supported UEFI OSs | | | | |
|---|--|--|--|--|
| Ubuntu Server20.04.1 | | | | |
| Windows 11 Home(onboard SATA AHCI mode x64) | | | | |