

Please contact FAE support for below orange blocks

| Ampere CPU for Altra and Altra max | | | | | | | | | | |
|---|-------------|-------------------------|---------------|-----------------|--------------------------|----------------|--------------------------|-----------------------|--|--------------|
| Product Name | Code Name | Q-Spec | Stepping | Cache | System Bus | # of Cores | Processor Base Frequency | Max Turbo Frequency | TDP(W) | Memory Types |
| Ampere(R) Altra(R) Processor Scalable Family | | | | | | | | | | |
| Ampere Altra Max CPU M128-30 | Altra Max | | | | 25 GT/s | 128 | 3.0 GHz | 3.0 GHz | 250 | DDR4-3200 |
| Ampere Altra Max CPU M128-28 | Altra Max | | | | 25 GT/s | 128 | 2.8 GHz | 2.8 GHz | 230 | DDR4-3200 |
| Ampere Altra Max CPU M128-26 | Altra Max | | | | 25 GT/s | 128 | 2.6 GHz | 2.6 GHz | 190 | DDR4-3200 |
| Ampere Altra Max CPU M112-30 | Altra Max | | | | 25 GT/s | 112 | 3.0 GHz | 3.0 GHz | 240 | DDR4-3200 |
| Ampere Altra Max CPU M96-30 | Altra Max | | | | 25 GT/s | 96 | 3.0 GHz | 3.0 GHz | 220 | DDR4-3200 |
| Ampere Altra Max CPU M96-28 | Altra Max | | | | 25 GT/s | 96 | 2.8 GHz | 2.8 GHz | 190 | DDR4-3200 |
| Ampere Altra CPU Q80-33 | Altra | | | | 25 GT/s | 80 | 3.3 GHz | 3.3 GHz | 250 | DDR4-3200 |
| Ampere Altra CPU Q80-30 | Altra | | | | 25 GT/s | 80 | 3.0 GHz | 3.0 GHz | 210 | DDR4-3200 |
| Ampere Altra CPU Q80-28 | Altra | | | | 25 GT/s | 80 | 2.8 GHz | 2.8 GHz | 185 | DDR4-3200 |
| Ampere Altra CPU Q80-26 | Altra | | | | 20 GT/s | 80 | 2.6 GHz | 2.6 GHz | 150 | DDR4-3200 |
| Ampere Altra CPU Q72-30 | Altra | | | | 25 GT/s | 72 | 3.0 GHz | 3.0 GHz | 195 | DDR4-3200 |
| Ampere Altra CPU Q64-33 | Altra | | | | 25 GT/s | 64 | 3.3 GHz | 3.3 GHz | 220 | DDR4-3200 |
| Ampere Altra CPU Q64-30 | Altra | | | | 25 GT/s | 64 | 3.0 GHz | 3.0 GHz | 180 | DDR4-3200 |
| Ampere Altra CPU Q64-26 | Altra | | | | 20 GT/s | 64 | 2.6 GHz | 2.6 GHz | 125 | DDR4-3200 |
| Ampere Altra CPU Q64-22 | Altra | | | | 16 GT/s | 64 | 2.2 GHz | 2.2 GHz | 95 | DDR4-3200 |
| Ampere Altra CPU Q32-17 | Altra | | | | 16 GT/s | 32 | 1.7 GHz | 1.7 GHz | 65 | DDR4-3200 |
| Don't write "Test Items" under this line!!! | | | | | | | | | | |
| Memory (Memory actually maximum frequency will follow memory controller's spec of CPU you used) | | | | | | | | | | |
| Product Name | Memory Type | Module Supplier | Size | Chip Brand | Rank | Voltage | Data Transfer Rate | Error Correction | CAS Latency | Pins |
| DDR4 RDIMM | | | | | | | | | | |
| HMA82GR7DJR8N-XN T8 | DDR4 | SKhynix | 16GB | SKhynix-Rambus | 2Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| HMA82GR7DJR8N-XN TG | DDR4 | SKhynix | 16GB | SKhynix-IDT | 2Rx8 | 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 |
| HMA84GR7DJR4N-XN TG | DDR4 | SKhynix | 32GB | SKhynix-IDT | 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 |
| HMAA8GR7AJR4N-XN T8 | DDR4 | SKhynix | 64GB | SKhynix-Rambus | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| HMAA8GR7CJR4N-XN T4 | DDR4 | SKhynix | 64GB | SKhynix-Montage | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| HMAA8GR7CJR4N-XN TG | DDR4 | SKhynix | 64GB | SKhynix-IDT | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| HMAA8GR7CJR4N-XN T8 | DDR4 | SKhynix | 64GB | SKhynix-Rambus | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA9ASF1G72PZ-3G2R1VI | DDR4 | Micron | 8GB | Micron-IDT | 1Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA9ASF1G72PZ-3G2R1TI | DDR4 | Micron | 8GB | Micron-Montage | 1Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA9ASF2G72PZ-3G2E1TI | DDR4 | Micron | 16GB | Micron-Montage | 1Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA18ASF2G72PDZ-3G2R1UI | DDR4 | Micron | 16GB | Micron-Rambus | 2Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA18ASF2G72PDZ-3G2R1VI | DDR4 | Micron | 16GB | Micron-IDT | 2Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA18ASF2G72PDZ-3G2R1TI | DDR4 | Micron | 16GB | Micron-Montage | 2Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA18ASF2G72PZ-3G2R1UI | DDR4 | Micron | 16GB | Micron-Rambus | 1Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA18ASF2G72PZ-3G2R1TI | DDR4 | Micron | 16GB | Micron-Montage | 1Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA9ASF2G72PZ-3G2F1UI | DDR4 | Micron | 16GB | Micron-Rambus | 1Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA36ASF4G72PZ-3G2R1UI | DDR4 | Micron | 32GB | Micron-Rambus | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA18ASF4G72PDZ-3G2F1VI | DDR4 | Micron | 32GB | Micron-IDT | 2Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA18ASF4G72PDZ-3G2F1UI | DDR4 | Micron | 32GB | Micron-Montage | 1Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA18ASF4G72PZ-3G2F1UI | DDR4 | Micron | 32GB | Micron-Rambus | 1Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| MTA36ASF8G72PZ-3G2F1VI | DDR4 | Micron | 64GB | Micron-IDT | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393A2K43EB3-CWBEQ | DDR4 | Samsung | 16GB | Samsung-IDT | 2Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393A4K40DB3-CWECQ | DDR4 | Samsung | 32GB | Samsung-Montage | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393A4K40DB3-CWBEQ | DDR4 | Samsung | 32GB | Samsung-IDT | 1Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393A4K40DB3-CWBEY | DDR4 | Samsung | 32GB | Samsung-IDT | 1Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393A4K40DB3-CWEGQ | DDR4 | Samsung | 32GB | Samsung-Rambus | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393A4G40BB3-CWEGQ | DDR4 | Samsung | 32GB | Samsung-Rambus | 1Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393A4K40EB3-CWEGQ | DDR4 | Samsung | 32GB | Samsung-Rambus | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393A4K40EB3-CWECO | DDR4 | Samsung | 32GB | Samsung-Montage | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393A4K40EB3-CWBEY | DDR4 | Samsung | 32GB | Samsung-IDT | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393A8G40BB4-CWBEY | DDR4 | Samsung | 64GB | Samsung-IDT | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393AAG40M32-CAEBQ | DDR4 | Samsung | 128GB | Samsung | 252Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| M393AAG40M32-CAEBY | DDR4 | Samsung | 128GB | Samsung | 252Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| KSM32RS8/16MER | DDR4 | Kingston | 16GB | Micron-Rambus | 1Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| KSM32R8/16MRR | DDR4 | Kingston | 16GB | Micron-Rambus | 1Rx8 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| KSM32RS4/32MER | DDR4 | Kingston | 32GB | Micron-Rambus | 1Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| KSM32RD4/32MRR | DDR4 | Kingston | 32GB | Micron-Rambus | 2Rx4 | 1.2v | 3200MHz | ECC Registered | 22 | 288-pin |
| Don't write "Test Items" under this line!!! | | | | | | | | | | |
| RAID Card | | | | | | | | | | |
| Product Name | Vendor | RAID-on-Chip Controller | Host Bus Type | Internal Ports | Internal Connectors | External Ports | External Connectors | Data Transfer Rates | Note | |
| GIGABYTE Storage Cards | | | | | | | | | | |
| CRA3338 | GIGABYTE | LSI SAS 3008 | PCIe Gen3 x8 | 8 | 2 x Mini-SAS HD SFF-8643 | - | - | Up to 12Gbps per port | | |
| CRA4448 | GIGABYTE | LSI SAS 3108 | PCIe Gen3 x8 | 8 | 2 x Mini-SAS HD SFF-8643 | - | - | Up to 12Gbps per port | Hardware RAID Firmware need support ARM Hi Hi Firmware: 03.25.05.10 | |

| Don't write "Test Items" under this line!!! | | | | | | | | | |
|--|-----------|--------------------------|-------------|------------------|----------|--|----------|--|------|
| SATA/SAS SSD | | | | | | | | | |
| Product Name | Type | Vendor | Form Factor | Interface | Capacity | Interface Speed | FW | | Note |
| SATA SSD | | | | | | | | | |
| MTFDDAK3T8TDS-1AW1ZABYY (5300 PRO) | SSD | Micron | 2.5" | SATA | 3.84TB | 6Gb/s | D3MU401 | | |
| MTFDDAK1T9TDS-1AW1ZABYY (5300 PRO) | SSD | Micron | 2.5" | SATA | 1.92TB | 6Gb/s | D3MU001 | | |
| MZ7L31T9H8NA-00A07 PM897 | SSD | Samsung | 2.5" | SATA | 1.92TB | 6Gb/s | JXTE004Q | | |
| MZ-7LH1T9NE 883 DCT Series | SSD | Samsung | 2.5" | SATA | 1.92TB | 6Gb/s | HXT7404Q | | |
| MZ7L3480HCHQ-00A07 PM893 Series | SSD | Samsung | 2.5" | SATA | 480GB | 6Gb/s | JXTC004Q | | |
| MZ7L33T8HBLT-00A07 PM893 Series | SSD | Samsung | 2.5" | SATA | 3.84TB | 6Gb/s | JXTC004Q | | |
| SSB1K9GLCW-D2-SME1720GBT ESM1720 Series | SSD | Phison | 2.5" | SATA | 1.92TB | 6Gb/s | SCEMHS.0 | | |
| Don't write "Test Items" under this line!!! | | | | | | | | | |
| M.2 | | | | | | | | | |
| Product Name | Type | Vendor | Form Factor | Interface | Capacity | Interface Speed | FW | | Note |
| M.2 | | | | | | | | | |
| SSDPEKKA256G801 P4101 Series 256GB | M.2 | Intel | 2280 | PCIe(NVMe) | 256GB | PCIe Gen3 x4 | 008D | | |
| MZ1L21T9HCLS PM9A3 Series | M.2 | Samsung | 22110 | PCIe(NVMe) | 1.92TB | PCIe Gen4 x4 | GDC7202Q | | |
| MZ-1LB960N 983 DCT Series | M.2 | Samsung | 22110 | PCIe(NVMe) | 960GB | PCIe Gen3 x4 | EDA7102Q | | |
| MZ-1LB1T9N 983 DCT Series | M.2 | Samsung | 22110 | PCIe(NVMe) | 1.92TB | PCIe Gen3 x4 | EDA7102Q | | |
| MTFDKBA800TFC 800GB 7400 Max Series | M.2 | Micron | 2280 | PCIe(NVMe) | 800GB | PCIe Gen4 x4 | E1MU23BC | | |
| MTFDKBG3T8TDZ 3.84TB 7400 Pro Series | M.2 | Micron | 22110 | PCIe(NVMe) | 3.84TB | PCIe Gen4 x4 | E1MU23BC | | |
| MTFDKBG1T9TDZ 1.92TB 7400 Pro Series | M.2 | Micron | 22110 | PCIe(NVMe) | 1.92TB | PCIe Gen4 x4 | E1MU23BC | | |
| MTFDKBA800TFS 800GB 7450 Max Series | M.2 | Micron | 2280 | PCIe(NVMe) | 800 GB | PCIe Gen4 x4 | E2MU110 | | |
| MTFDKBG3T8TFR 3.84TB 7450 Pro Series | M.2 | Micron | 22110 | PCIe(NVMe) | 3.84TB | PCIe Gen4 x4 | E2MU110 | | |
| DuraFlash SPG230504ZH | M.2 | SMART Modular | 2280 | PCIe(NVMe) | 480 GB | PCIe Gen4 x4 | FW1433 | | |
| Don't write "Test Items" under this line!!! | | | | | | | | | |
| LAN Cards | | | | | | | | | |
| Product Name | Connector | System Interface Type | # of Ports | Data Rate | | Note | | | |
| GIGABYTE LAN Cards | | | | | | | | | |
| CLN4D40 | SFP28 | PCIe Gen3 x8 | Dual | 25Gb/s per port | | Broadcom BCM57414 | | | |
| 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 | | | |
| Don't write "Test Items" under this line!!! | | | | | | | | | |
| Mellanox ConnectX | | | | | | | | | |
| MCX631102AN-ADAT | SFP28 | PCIe Gen4 x8 | Dual | 25Gb/s per port | | ConnectX®-6 DL without Crypto | | | |
| MCX631432AN-ADAB | SFP28 | OCF PCIe Gen4 x8 | Dual | 25Gb/s per port | | ConnectX®-6 DL without Crypto / Support OCP 3.0 | | | |
| MCX623105AN-CDAT | QSFP56 | PCIe Gen4 x16 | Single | 100Gb/s per port | | ConnectX®-6 DL No Crypto, No Secure Boot | | | |
| MCX623106AN-CDAT | QSFP56 | PCIe Gen4 x16 | Dual | 100Gb/s per port | | ConnectX®-6 DL No Crypto, No Secure Boot | | | |
| MCX623435AC-VDAB | QSFP56 | OCF PCIe Gen4 x16 | Single | 200Gb/s per port | | ConnectX®-6 DL With Crypto1, With Secure Boot / Support OCP 3.0 | | | |
| MCX613106A-VDAT | QSFP56 | PCIe Gen4 x16 | Dual | 200Gb/s per port | | Mellanox ConnectX-6 EN | | | |
| MCX565M-CDAB | QSFP28 | OCF PCIe Gen4 x16 | Single | 100Gb/s per port | | ConnectX®-5 Ex MLB-Hook / Support OCP 3.0 | | | |
| MCX623432AN-ADAB | SFP28 | OCF PCIe Gen4 x16 | Dual | 25Gb/s per port | | ConnectX®-6 DL No Crypto, No Secure Boot / Support OCP 3.0 | | | |
| MCX4121A -ACAT | SFP28 | PCIe Gen3 x8 | Dual | 25Gb/s per port | | Mellanox ConnectX-4 Lx MCX4121A -ACAT SFP28 PCIe3.0 x8 | | | |
| Don't write "Test Items" under this line!!! | | | | | | | | | |
| Mellanox VPI Adapter Cards | | | | | | | | | |
| MCX683105AN-HDAT | QSFP | PCIe Gen4 x16 | Single | 200Gb/s per port | | Mellanox ConnectX-6 DE VPI (InfiniBand) | | | |
| MCX653106A-HDAT | QSFP56 | PCIe Gen4 x16 | Dual | 200Gb/s per port | | Mellanox ConnectX-6 Ex VPI (InfiniBand) | | | |
| MCX653105A-HDAT | QSFP56 | PCIe Gen4 x16 | Single | 200Gb/s per port | | Mellanox ConnectX-6 Ex VPI (InfiniBand) | | | |
| MCX653105A-ECAT | QSFP56 | PCIe Gen4 x16 | Single | 100Gb/s per port | | Mellanox ConnectX-6 Ex VPI (InfiniBand) | | | |
| MCX355A-ECAT | QSFP28 | PCIe Gen3 x16 | Single | 100Gb/s per port | | Mellanox ConnectX-5 VPI (InfiniBand) | | | |
| MCX623106AC-CDAT | QSFP56 | PCIe Gen4 x16 | Dual | 100Gb/s per port | | Mellanox MCX623106AC-CDAT ConnectX-6 DX Dual Port 100Gb PCIe 4.0 x16 Ethernet Adapter Card | | | |
| Don't write "Test Items" under this line!!! | | | | | | | | | |
| Broadcom (Emulex) Ethernet Networking Adapters | | | | | | | | | |
| BCM957414A4142CC | SFP28 | PCIe Gen3 x8 | Dual | 25Gb/s per port | | BCM57414 | | | |
| BCM957416A4160C | RJ-45 | PCIe Gen3 x8 | Dual | 10Gb/s per port | | BCM5741 (P210TP) | | | |
| BCM957504-N425G | SFP28 | OCF PCIe 4.0 | Quad | 25Gb/s per port | | BCM57504 NetXtreme-E Quad-port 25 Gb/s Sfp28 Ethernet Pci Express 4.0 X16 OCP 3.0 | | | |
| BCM957416N4160C-N210TP | RJ-45 | OCF PCIe 4.0 | Dual | 10Gb/s per port | | BCM57416 NetXtreme-E Dual-Media 10G (N210TP) | | | |
| Don't write "Test Items" under this line!!! | | | | | | | | | |