

QVL Support List

MS04-CE0 (Rev. 1.x)

Intel CPU

| Product Name                                 | Vendor | Code Name         | Q-Spec | Stepping | Cache | # of Cores | Processor Base Frequency (GHz) | Max Turbo Frequency (GHz) | TDP  | Memory Types |
|----------------------------------------------|--------|-------------------|--------|----------|-------|------------|--------------------------------|---------------------------|------|--------------|
| Granite Rapids-SP                            |        |                   |        |          |       |            |                                |                           |      |              |
| Intel® Xeon® 6 6520P                         | Intel  | Granite Rapids-SP | Q7C3   | H-0      | 144MB | 24         | 2.4                            | 4                         | 210W | DDR5-6400    |
| Intel® Xeon® 6 6530P                         | Intel  | Granite Rapids-SP | Q7C4   | H-0      | 144MB | 32         | 2.3                            | 4.1                       | 225W | DDR5-6400    |
| Intel® Xeon® 6 6730P                         | Intel  | Granite Rapids-SP | SRV5R  | B-2      | 288MB | 32         | 2.5                            | 3.8                       | 250W | DDR5-6400    |
| Intel® Xeon® 6 6736P                         | Intel  | Granite Rapids-SP | Q7AV   | H-0      | 144MB | 36         | 2                              | 4.1                       | 205W | DDR5-6400    |
| Intel® Xeon® 6 6737P                         | Intel  | Granite Rapids-SP | Q7C6   | H-0      | 144MB | 32         | 2.9                            | 4                         | 270W | DDR5-6400    |
| Intel® Xeon® 6 6740P                         | Intel  | Granite Rapids-SP | SRV5H  | B-2      | 288MB | 48         | 2.1                            | 3.8                       | 270W | DDR5-6400    |
| Intel® Xeon® 6 6747P                         | Intel  | Granite Rapids-SP | SRVEZ  | B-2      | 288MB | 48         | 2.7                            | 3.9                       | 330W | DDR5-6400    |
| Intel® Xeon® 6 6760P                         | Intel  | Granite Rapids-SP | Q62W   | B-2      | 320MB | 64         | 2.2                            | 3.8                       | 330W | DDR5-6400    |
| Intel® Xeon® 6 6767P                         | Intel  | Granite Rapids-SP | SRV5F  | B-2      | 336MB | 64         | 2.4                            | 3.9                       | 350W | DDR5-6400    |
| Intel® Xeon® 6 6787P                         | Intel  | Granite Rapids-SP | SRV5E  | B-2      | 336MB | 86         | 2                              | 3.8                       | 350W | DDR5-6400    |
| Sierra Forest-SP - Intel® Xeon® 6 Processors |        |                   |        |          |       |            |                                |                           |      |              |
| Intel® Xeon® 6 6710E                         | Intel  | Sierra Forest-SP  | Q4W3   | C-0      | 96MB  | 64         | 2.4                            | 3.2                       | 205W | DDR5-5600    |
| Intel® Xeon® 6 6731E                         | Intel  | Sierra Forest-SP  | Q4VZ   | C-0      | 96MB  | 96         | 2.2                            | 3.1                       | 250W | DDR5-5600    |
| Intel® Xeon® 6 6740E                         | Intel  | Sierra Forest-SP  | Q4VV   | C-0      | 96MB  | 96         | 2.4                            | 3.2                       | 250W | DDR5-6400    |
| Intel® Xeon® 6 6746E                         | Intel  | Sierra Forest-SP  | Q4W2   | C-0      | 96MB  | 112        | 2                              | 2.7                       | 250W | DDR5-5600    |
| Intel® Xeon® 6 6756E                         | Intel  | Sierra Forest-SP  | Q4VY   | C-0      | 96MB  | 128        | 1.8                            | 2.6                       | 225W | DDR5-6400    |
| Intel® Xeon® 6 6766E                         | Intel  | Sierra Forest-SP  | Q4VX   | C-0      | 108MB | 144        | 1.9                            | 2.7                       | 250W | DDR5-6400    |
| Intel® Xeon® 6 6780E                         | Intel  | Sierra Forest-SP  | Q4WS   | C-0      | 108MB | 144        | 2.2                            | 3                         | 330W | DDR5-6400    |

Memory

| Product Name | Vendor | Memory Type | Size | Chip Brand | Rank | Voltage | Data Transfer Rate | Error Correction | Pins | Remark |
|--------------|--------|-------------|------|------------|------|---------|--------------------|------------------|------|--------|
|--------------|--------|-------------|------|------------|------|---------|--------------------|------------------|------|--------|

| Product Name                                                                                                                     | Vendor  | Memory Type | Size  | Chip Brand      | Rank | Voltage | Data Transfer Rate | Error Correction | Pins    | Remark |
|----------------------------------------------------------------------------------------------------------------------------------|---------|-------------|-------|-----------------|------|---------|--------------------|------------------|---------|--------|
| DDR5 RDIMM                                                                                                                       |         |             |       |                 |      |         |                    |                  |         |        |
| Please contact our technical team to ensure your system fully supports items listed below <a href="#">Technical Support &gt;</a> |         |             |       |                 |      |         |                    |                  |         |        |
| MTC20F2085S1RC64BD2 MWFF                                                                                                         | Micron  | DDR5        | 32GB  | Micron-Montage  | 2Rx8 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| MTC20F1045S1RC64BD2 UXCC                                                                                                         | Micron  | DDR5        | 32GB  | Micron-Renesas  | 1Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| MTC40F2046S1RC64BD2 MXCC                                                                                                         | Micron  | DDR5        | 64GB  | Micron-Renesas  | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| MTC40F2046S1RC64BD2 UXCC                                                                                                         | Micron  | DDR5        | 64GB  | Micron-Renesas  | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| MTC40F2046S1RC64BD2 USFF                                                                                                         | Micron  | DDR5        | 64GB  | Micron-Rambus   | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| MTC40F2046S1RC64BD2 MWFF                                                                                                         | Micron  | DDR5        | 64GB  | Micron-Montage  | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| MTC40F2046S1RC64BD2 QSFF                                                                                                         | Micron  | DDR5        | 64GB  | Micron-Rambus   | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| MTC40F2046S1RC64BD2 QWCC                                                                                                         | Micron  | DDR5        | 64GB  | Micron-Montage  | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| M321R4GA0PB2-CCPWC                                                                                                               | Samsung | DDR5        | 32GB  | Samsung-Rambus  | 1Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| M321R4GA0PB2-CCPPC                                                                                                               | Samsung | DDR5        | 32GB  | Samsung-Montage | 1Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| M321R4GA3PB2-CCPWC                                                                                                               | Samsung | DDR5        | 32GB  | Samsung-Rambus  | 2Rx8 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| M321R4GA3PB2-CCPPC                                                                                                               | Samsung | DDR5        | 32GB  | Samsung-Montage | 2Rx8 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| M321R8GA0PB2-CCPEC                                                                                                               | Samsung | DDR5        | 64GB  | Samsung-Renesas | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| M321R8GA0PB2-CCPWC                                                                                                               | Samsung | DDR5        | 64GB  | Samsung-Rambus  | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| M321R8GA0PB2-CCPPC                                                                                                               | Samsung | DDR5        | 64GB  | Samsung-Montage | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| M321R8GA0PB2-CCPKC                                                                                                               | Samsung | DDR5        | 64GB  | Samsung-Montage | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| M321RAJA0MB2-CCPWC                                                                                                               | Samsung | DDR5        | 128GB | Samsung-Rambus  | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| HMCG88AHBRA478N AA                                                                                                               | Skhynix | DDR5        | 32GB  | Skhynix-Montage | 2Rx8 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| HMCG88AHBRA471N AA                                                                                                               | Skhynix | DDR5        | 32GB  | Skhynix-Renesas | 2Rx8 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| HMCG94AHBRA480N AA                                                                                                               | Skhynix | DDR5        | 64GB  | Skhynix-Renesas | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| HMCG94AHBRA487N AA                                                                                                               | Skhynix | DDR5        | 64GB  | Skhynix-Montage | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| HMCGM4MHRB499N AA                                                                                                                | Skhynix | DDR5        | 96GB  | Skhynix-Renesas | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| HMCGM4MHRB505N AA                                                                                                                | Skhynix | DDR5        | 96GB  | Skhynix-Montage | 2Rx4 | 1.1v    | 6400MHz            | ECC Registered   | 288-pin |        |
| DDR5 MRDIMM                                                                                                                      |         |             |       |                 |      |         |                    |                  |         |        |
| MTC40F2046S1HC88XD1 XFFFG                                                                                                        | Micron  | DDR5        | 64GB  | Micron-Montage  | 2Rx4 | 1.1v    | 8800MHz            | ECC Registered   | 288-pin |        |
| MTC40F2046S1HC88XD1 WCCCC                                                                                                        | Micron  | DDR5        | 64GB  | Micron-Renesas  | 2Rx4 | 1.1v    | 8800MHz            | ECC Registered   | 288-pin |        |

| Product Name              | Vendor  | Memory Type | Size | Chip Brand      | Rank | Voltage | Data Transfer Rate | Error Correction | Pins    | Remark |
|---------------------------|---------|-------------|------|-----------------|------|---------|--------------------|------------------|---------|--------|
| MTC40F2046S1HC88XD1 WFFFG | Micron  | DDR5        | 64GB | Micron-Montage  | 2Rx4 | 1.1v    | 8800MHz            | ECC Registered   | 288-pin |        |
| M327R4GA3EB0-CLVXB        | Samsung | DDR5        | 32GB | Samsung-Montage | 2Rx8 | 1.1v    | 8800MHz            | ECC Registered   | 288-pin |        |
| M327R8GA0EB0-CLVXB        | Samsung | DDR5        | 64GB | Samsung-Montage | 2Rx4 | 1.1v    | 8800MHz            | ECC Registered   | 288-pin |        |
| HMCG94BDJHA383N AA        | Skhynix | DDR5        | 64GB | Skhynix-Montage | 2Rx4 | 1.1v    | 8800MHz            | ECC Registered   | 288-pin |        |
| HMCG94BDJHA462N AA        | Skhynix | DDR5        | 64GB | Skhynix-Renesas | 2Rx4 | 1.1v    | 8800MHz            | ECC Registered   | 288-pin |        |

HDD

| Product Name  | Vendor  | Type | Form Factor | Format   | Capacity | Interface Speed | Series    | Cache | RPM  | Encryption |
|---------------|---------|------|-------------|----------|----------|-----------------|-----------|-------|------|------------|
| SATA HDD      |         |      |             |          |          |                 |           |       |      |            |
| ST18000NM0092 | Seagate | SATA | 3.5"        | 512e/4Kn | 18TB     | 6Gb/s           | EXOS 2x18 | 256MB | 7200 | N/A        |
| ST24000NM002H | Seagate | SATA | 3.5"        | 512e     | 24TB     | 6Gb/s           | EXOS X24  | 256MB | 7200 | N/A        |
| MG09ACA18TE   | Toshiba | SATA | 3.5"        | 512e     | 18TB     | 6Gb/s           | MG09      | 512MB | 7200 | N/A        |
| MG10ACA20TE   | Toshiba | SATA | 3.5"        | 512e     | 20TB     | 6Gb/s           | MG10      | 512MB | 7200 | N/A        |
| MG10AFA22TE   | Toshiba | SATA | 3.5"        | 512e     | 22TB     | 6Gb/s           | MG10F     | 512MB | 7200 | N/A        |

SATA/SAS SSD

| Product Name            | Vendor | Type | Form Factor | Interface | Capacity | Interface Speed | Series          | Remark |
|-------------------------|--------|------|-------------|-----------|----------|-----------------|-----------------|--------|
| SATA SSD                |        |      |             |           |          |                 |                 |        |
| MTFDDAK240TGA-1BC1ZABYY | Micron | SSD  | 2.5"        | SATA      | 240GB    | 6Gb/s           | 5400 PRO Series |        |
| MTFDDAK480TGA-1BC1ZABYY | Micron | SSD  | 2.5"        | SATA      | 480GB    | 6Gb/s           | 5400 PRO Series |        |
| MTFDDAK480TGB-1BC1ZABYY | Micron | SSD  | 2.5"        | SATA      | 480GB    | 6Gb/s           | 5400 MAX Series |        |
| MTFDDAK960TGA-1BC1ZABYY | Micron | SSD  | 2.5"        | SATA      | 960GB    | 6Gb/s           | 5400 PRO Series |        |
| MTFDDAK960TGB-1BC1ZABYY | Micron | SSD  | 2.5"        | SATA      | 960GB    | 6Gb/s           | 5400 MAX Series |        |
| MTFDDAK1T9TGB-1BC1ZABYY | Micron | SSD  | 2.5"        | SATA      | 1.92TB   | 6Gb/s           | 5400 MAX Series |        |
| MTFDDAK1T9TGA-1BC1ZABYY | Micron | SSD  | 2.5"        | SATA      | 1.92TB   | 6Gb/s           | 5400 PRO Series |        |

NVMe/SATA M.2

| Product Name          | Vendor           | Type | Form Factor | Interface  | Capacity | Interface Speed | Series           | Other        | Remark |
|-----------------------|------------------|------|-------------|------------|----------|-----------------|------------------|--------------|--------|
| NVMe M.2              |                  |      |             |            |          |                 |                  |              |        |
| MTFDKBG960TFR         | Micron           | M.2  | 22110       | PCIe(NVMe) | 960GB    | PCIe Gen4 x4    | 7450 Pro Series  | VROC support |        |
| MTFDKBG1T9TFR         | Micron           | M.2  | 22110       | PCIe(NVMe) | 1.92TB   | PCIe Gen4 x4    | 7450 Pro Series  | VROC support |        |
| MTFDKBG3T8TFR         | Micron           | M.2  | 22110       | PCIe(NVMe) | 3.84TB   | PCIe Gen4 x4    | 7450 Pro Series  | VROC support |        |
| MZ1L2960HCJR          | Samsung          | M.2  | 22110       | PCIe(NVMe) | 960GB    | PCIe Gen4 x4    | PM9A3 Series     | VROC support |        |
| MZ1L21T9HCLS          | Samsung          | M.2  | 22110       | PCIe(NVMe) | 1.92TB   | PCIe Gen4 x4    | PM9A3 Series     | VROC support |        |
| SM2P41B8P-200GC       | ADATA            | M.2  | 2280        | PCIe(NVMe) | 200GB    | PCIe Gen4 x4    | SM2P41B8P Series |              |        |
| SM2P41B8P-400GC       | ADATA            | M.2  | 2280        | PCIe(NVMe) | 400GB    | PCIe Gen4 x4    | SM2P41B8P Series |              |        |
| MTFDKBA800TFC         | Micron           | M.2  | 2280        | PCIe(NVMe) | 800GB    | PCIe Gen4 x4    | 7400 Max Series  | VROC support |        |
| MTFDKBA800TFS         | Micron           | M.2  | 2280        | PCIe(NVMe) | 800GB    | PCIe Gen4 x4    | 7450 Max Series  | VROC support |        |
| D1802K02480GP01512G00 | PHISON / PASCARI | M.2  | 2280        | PCIe(NVMe) | 480GB    | PCIe Gen4 x4    | D100P Series     |              |        |
| CA6-8D256             | SSSTC            | M.2  | 2280        | PCIe(NVMe) | 256GB    | PCIe Gen4 x4    | CA6 Series       |              |        |
| PJ1-GW480             | SSSTC            | M.2  | 2280        | PCIe(NVMe) | 480GB    | PCIe Gen4 x4    | PJ1 Series       |              |        |
| CA6-8D512             | SSSTC            | M.2  | 2280        | PCIe(NVMe) | 512GB    | PCIe Gen4 x4    | CA6 Series       |              |        |
| PJ1-GW960             | SSSTC            | M.2  | 2280        | PCIe(NVMe) | 960GB    | PCIe Gen4 x4    | PJ1 Series       |              |        |
| PJ1-GW1920            | SSSTC            | M.2  | 2280        | PCIe(NVMe) | 1.92TB   | PCIe Gen4 x4    | PJ1 Series       |              |        |
| CA6-8D1024            | SSSTC            | M.2  | 2280        | PCIe(NVMe) | 1TB      | PCIe Gen4 x4    | CA6 Series       |              |        |
| CA6-8D2048            | SSSTC            | M.2  | 2280        | PCIe(NVMe) | 2TB      | PCIe Gen4 x4    | CA6 Series       |              |        |

Storage Card

| Product Name                                  | Vendor   | Chipset/Controller    | Interface    | Internal Ports | Internal Connectors | External Ports | External Connectors | Data Rate             | Remark |
|-----------------------------------------------|----------|-----------------------|--------------|----------------|---------------------|----------------|---------------------|-----------------------|--------|
| Broadcom                                      |          |                       |              |                |                     |                |                     |                       |        |
| eHBA 9600-16e Tri-Mode Storage Adapter        | Broadcom | SAS4016 (Avenger IOC) | PCIe Gen4 x8 | -              | -                   | 16             | 4 SFF-8644          | Up to 24Gb/s per port |        |
| eHBA 9600-24i Tri-Mode Storage Adapter (NVMe) | Broadcom | SAS4024 (Avenger IOC) | PCIe Gen4 x8 | 24             | 3 SlimSAS SFF-8654  | -              | -                   | Up to 24Gb/s per port |        |
| eHBA 9600-24i Tri-Mode Storage Adapter        | Broadcom | SAS4024 (Avenger IOC) | PCIe Gen4    | 24             | 3 SlimSAS SFF-8654  | -              | -                   | Up to 24Gb/s per      |        |

| Product Name                                           | Vendor   | Chipset/Controller                          | Interface     | Internal Ports | Internal Connectors | External Ports | External Connectors | Data Rate             | Remark |
|--------------------------------------------------------|----------|---------------------------------------------|---------------|----------------|---------------------|----------------|---------------------|-----------------------|--------|
| (SAS/SATA mode)                                        |          |                                             | x8            |                |                     |                |                     | port                  |        |
| eHBA 9600W-16e Tri-Mode Storage Adapter                | Broadcom | SAS4016W (Avenger IOC)                      | PCIe Gen4 x16 | -              | -                   | 16             | 4 SFF-8644          | Up to 24Gb/s per port |        |
| eHBA 9620-16i Tri-Mode Storage Adapter (NVMe)          | Broadcom | SAS4016 (Avenger IOC)                       | PCIe Gen4 x8  | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 24Gb/s per port |        |
| eHBA 9620-16i Tri-Mode Storage Adapter (SAS/SATA mode) | Broadcom | SAS4016 (Avenger IOC)                       | PCIe Gen4 x8  | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 24Gb/s per port |        |
| HBA 9500-16i Tri-Mode Storage Adapter (NVMe)           | Broadcom | SAS3816                                     | PCIe Gen4 x8  | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| HBA 9500-16i Tri-Mode Storage Adapter (SAS/SATA mode)  | Broadcom | SAS3816                                     | PCIe Gen4 x8  | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| MegaRAID 9560-16i (SAS/SATA mode)                      | Broadcom | SAS3916 Tri-Mode RAID-on-Chip (ROC)         | PCIe Gen4 x8  | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| MegaRAID 9560-16i Tri-Mode (NVMe)                      | Broadcom | SAS3916 Tri-Mode RAID-on-Chip (ROC)         | PCIe Gen4 x8  | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| MegaRAID 9560-8i (SAS/SATA mode)                       | Broadcom | SAS3908 Tri-Mode RAID-on-Chip (ROC)         | PCIe Gen4 x8  | 8              | 1 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| MegaRAID 9560-8i Tri-Mode (NVMe)                       | Broadcom | SAS3908 Tri-Mode RAID-on-Chip (ROC)         | PCIe Gen4 x8  | 8              | 1 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| MegaRAID 9660-16i (SAS/SATA mode)                      | Broadcom | SAS4116 (Avenger ROC)                       | PCIe Gen4 x8  | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 24Gb/s per port |        |
| MegaRAID 9660-16i Tri-Mode (NVMe)                      | Broadcom | SAS4116 (Avenger ROC)                       | PCIe Gen4 x8  | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 24Gb/s per port |        |
| MegaRAID 9670W-16i (SAS/SATA mode)                     | Broadcom | SAS4116W (Avenger ROC)                      | PCIe Gen4 x16 | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 24Gb/s per port |        |
| GIGABYTE                                               |          |                                             |               |                |                     |                |                     |                       |        |
| CRA4760 (SAS/SATA mode)                                | GIGABYTE | LSI SAS 3908 (Up to 32 x physical devices)  | PCIe Gen4 x8  | 8              | 1 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| CRA4760 Tri-Mode (NVMe)                                | GIGABYTE | LSI SAS 3908 (Up to 32 x physical devices)  | PCIe Gen4 x8  | 8              | 1 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| CRA4761 (SAS/SATA mode)                                | GIGABYTE | LSI SAS 3908 (Up to 240 x physical devices) | PCIe Gen4 x8  | 8              | 1 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| CRA4761 Tri-Mode (NVMe)                                | GIGABYTE | LSI SAS 3908 (Up to 240 x physical devices) | PCIe Gen4 x8  | 8              | 1 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| CRA4960 (SAS/SATA mode)                                | GIGABYTE | LSI SAS 3916 (Up to 32 x physical devices)  | PCIe Gen4 x8  | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |

| Product Name            | Vendor   | Chipset/Controller                          | Interface    | Internal Ports | Internal Connectors | External Ports | External Connectors | Data Rate             | Remark |
|-------------------------|----------|---------------------------------------------|--------------|----------------|---------------------|----------------|---------------------|-----------------------|--------|
| CRA4960 Tri-Mode (NVMe) | GIGABYTE | LSI SAS 3916 (Up to 32 x physical devices)  | PCIe Gen4 x8 | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| CRA4961 (SAS/SATA mode) | GIGABYTE | LSI SAS 3916 (Up to 240 x physical devices) | PCIe Gen4 x8 | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| CRA4961 Tri-Mode (NVMe) | GIGABYTE | LSI SAS 3916 (Up to 240 x physical devices) | PCIe Gen4 x8 | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| CSA4710 (SAS/SATA mode) | GIGABYTE | LSI SAS 3808                                | PCIe Gen4 x8 | 8              | 1 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| CSA4710 Tri-Mode (NVMe) | GIGABYTE | LSI SAS 3808                                | PCIe Gen4 x8 | 8              | 1 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| CSA4820 (SAS/SATA mode) | GIGABYTE | LSI SAS 3816                                | PCIe Gen4 x8 | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |
| CSA4820 Tri-Mode (NVMe) | GIGABYTE | LSI SAS 3816                                | PCIe Gen4 x8 | 16             | 2 SlimSAS SFF-8654  | -              | -                   | Up to 12Gb/s per port |        |

LAN Cards

| Product Name     | Vendor   | Connector | Interface     | Ports  | Data Rate        | Remark            |
|------------------|----------|-----------|---------------|--------|------------------|-------------------|
| Broadcom         |          |           |               |        |                  |                   |
| BCM957416A4160C  | Broadcom | RJ-45     | PCIe Gen3 x8  | Dual   | 10Gb/s per port  | BCM57416 (P210TP) |
| LPe31002-M6      | Broadcom | SFP+      | PCIe Gen3 x8  | Dual   | 16Gb/s per port  | XE501 controller  |
| BCM957414A4142CC | Broadcom | SFP28     | PCIe Gen3 x8  | Dual   | 25Gb/s per port  | BCM57414 (P225P)  |
| LPe32002-M2      | Broadcom | SFP+      | PCIe Gen3 x8  | Dual   | 32Gb/s per port  | XE501 controller  |
| BCM957508-P2100G | Broadcom | QSFP56    | PCIe Gen4 x16 | Dual   | 100Gb/s per port | BCM57508          |
| BCM957508-P1200G | Broadcom | QSFP56    | PCIe Gen4 x16 | Single | 200Gb/s per port | BCM57508          |
| GIGABYTE         |          |           |               |        |                  |                   |
| CLN4A10          | GIGABYTE | RJ-45     | PCIe Gen3 x8  | Dual   | 1Gb/s per port   | Broadcom BCM5720L |
| CLN4B20          | GIGABYTE | RJ-45     | PCIe Gen3 x8  | Dual   | 10Gb/s per port  | Broadcom BCM57416 |
| CLN4222          | GIGABYTE | RJ-45     | PCIe Gen3 x4  | Dual   | 10Gb/s per port  | INTEL X550-AT2    |
| CLN4224          | GIGABYTE | RJ-45     | PCIe Gen3 x8  | Quad   | 10Gb/s per port  | INTEL X550-AT2    |
| CLN4D40          | GIGABYTE | SFP28     | PCIe Gen3 x8  | Dual   | 25Gb/s per port  | Broadcom BCM57414 |



| Product Name     | Vendor | Connector | Interface     | Ports  | Data Rate        | Remark                                                                                             |
|------------------|--------|-----------|---------------|--------|------------------|----------------------------------------------------------------------------------------------------|
| Intel            |        |           |               |        |                  |                                                                                                    |
| X722-DA4         | Intel  | SFP+      | PCIe Gen3 x8  | Quad   | 10Gb/s per port  |                                                                                                    |
| XXV710-DA2       | Intel  | SFP28     | PCIe Gen3 x8  | Dual   | 25Gb/s per port  |                                                                                                    |
| E810-XXVDA4      | Intel  | SFP28     | PCIe Gen4 x16 | Quad   | 25Gb/s per port  | Controller E810-CAM1                                                                               |
| E810-CQDA1       | Intel  | QSFP28    | PCIe Gen4 x16 | Single | 100Gb/s per port |                                                                                                    |
| NVIDIA           |        |           |               |        |                  |                                                                                                    |
| MCX631102AN-ADAT | NVIDIA | SFP28     | PCIe Gen4 x8  | Dual   | 25Gb/s per port  | Mellanox ConnectX®-6 Lx without Crypto                                                             |
| MCX4121A-ACAT    | NVIDIA | SFP28     | PCIe Gen3 x8  | Dual   | 25Gb/s per port  | Mellanox ConnectX-4 Lx EN                                                                          |
| MCX631102AC-ADAT | NVIDIA | SFP28     | PCIe Gen4 x8  | Dual   | 25Gb/s per port  | Mellanox ConnectX-6 Lx EN with Crypto, with Secure Boot                                            |
| MCX631102AS-ADAT | NVIDIA | SFP28     | PCIe Gen4 x8  | Dual   | 25Gb/s per port  | Mellanox ConnectX-6 Lx EN with Secure Boot                                                         |
| MCX713104AS-ADAT | NVIDIA | SFP56     | PCIe Gen4 x16 | Quad   | 50Gb/s per port  | Mellanox ConnectX-7 with Secure Boot                                                               |
| MCX713104AC-ADAT | NVIDIA | SFP56     | PCIe Gen4 x16 | Quad   | 50Gb/s per port  | Mellanox ConnectX-7 with Crypto, with Secure Boot                                                  |
| MCX623105AN-CDAT | NVIDIA | QSFP56    | PCIe Gen4 x16 | Single | 100Gb/s per port | Mellanox ConnectX®-6 Dx without Crypto, without Secure Boot                                        |
| MCX515A-CCAT     | NVIDIA | QSFP28    | PCIe Gen3 x16 | Single | 100Gb/s per port | Mellanox ConnectX-5 EN                                                                             |
| MCX623105AC-CDAT | NVIDIA | QSFP56    | PCIe Gen4 x16 | Single | 100Gb/s per port | Mellanox ConnectX-6 Dx with Crypto, with Secure Boot                                               |
| MCX653106A-ECAT  | NVIDIA | QSFP56    | PCIe Gen4 x16 | Dual   | 100Gb/s per port | Mellanox ConnectX-6 Ex VPI (InfiniBand)                                                            |
| MCX623106AC-CDAT | NVIDIA | QSFP56    | PCIe Gen4 x16 | Dual   | 100Gb/s per port | Mellanox ConnectX-6 Dx with Crypto, with Secure Boot                                               |
| MCX623106AS-CDAT | NVIDIA | QSFP56    | PCIe Gen4 x16 | Dual   | 100Gb/s per port | Mellanox ConnectX-6 Dx with Secure Boot                                                            |
| MCX516A-CCAT     | NVIDIA | QSFP28    | PCIe Gen3 x16 | Dual   | 100Gb/s per port | Mellanox ConnectX-5 EN                                                                             |
| MCX623106AN-CDAT | NVIDIA | QSFP56    | PCIe Gen4 x16 | Dual   | 100Gb/s per port | Mellanox ConnectX®-6 Dx without Crypto, without Secure Boot                                        |
| MCX653105A-ECAT  | NVIDIA | QSFP56    | PCIe Gen4 x16 | Single | 100Gb/s per port | Mellanox ConnectX-6 Ex VPI (InfiniBand)                                                            |
| MCX755106AS-HEAT | NVIDIA | QSFP112   | PCIe Gen5 x16 | Dual   | 200Gb/s per port | Mellanox ConnectX-7 with Secure Boot                                                               |
| MCX755106AC-HEAT | NVIDIA | QSFP112   | PCIe Gen5 x16 | Dual   | 200Gb/s per port | Mellanox ConnectX-7 with Crypto, with Secure Boot (without Dual-Slot Socket Direct Ready function) |
| MCX683105AN-HDAT | NVIDIA | QSFP      | PCIe Gen4 x16 | Single | 200Gb/s per port | Mellanox ConnectX-6 DE VPI (InfiniBand)                                                            |
| MCX653106A-HDAT  | NVIDIA | QSFP56    | PCIe Gen4 x16 | Dual   | 200Gb/s per port | Mellanox ConnectX-6 Ex VPI (InfiniBand)                                                            |
| MCX653105A-HDAT  | NVIDIA | QSFP56    | PCIe Gen4 x16 | Single | 200Gb/s per port | Mellanox ConnectX-6 Ex VPI (InfiniBand)                                                            |
| MCX75310AAS-NEAT | NVIDIA | OSFP      | PCIe Gen5 x16 | Single | 400Gb/s per port | NVIDIA ConnectX-7 VPI (InfiniBand) with Secure Boot                                                |
| MCX75310AAC-NEAT | NVIDIA | OSFP      | PCIe Gen5 x16 | Single | 400Gb/s per port | NVIDIA ConnectX-7 VPI (InfiniBand) with Crypto, with Secure Boot                                   |

Attention:

- 1. Please contact FAE support for below orange blocks
- 2. Storage (If the system build-in with RAID card ,please refer to RAID card QVL list)
- 3. undefined