# Compute Storage

MSI Compute Storage series has cover general server types to be implemented in diversity IT environment. We have 1U, 2U, 3U and 4U rackmount and workstation for business. General classic appliance on MSI Compute Storage series can be general server and storage. In further, you can add on MSI storage adapter to build RAID for data protection and rise reliability.

MSI Compute Storage series contains standard rackmount server S1000, S2000, S3000, S4000, H1000 and H5000 series. General server application is suitable for all system and we have numbers of bays to fulfill storage demand as a server storage system. There are many compatible server motherboards can be configured in various types of infrastructure, such as NAS, SAN, IP SAN and so on.

### Powerful computing and a great of storage capability

✓ *Versatile computing* – Diversity options of computing level can support every application demand since MSI provides numbers of solutions. There are dual socket Intel Xeon E5-2600v3/v4, single E3-1200v5/v6 and Core i3/i5/i7, Pentium®, Celeron®.

✓ *Storage appliance* – Storage capacity is important ability to sustain more and more data growing so that flexibility of storage configuration. For huge storage volume and computing demand, the S3000 and S4000 series are highly recommended.

✓ *Networking appliance* – Data transmit is getting heavier so that high network bandwidth is key to speed up total solution. E.g. Faster data recovery, system synchronizing, Active-Active mode HA, cloud service for tenants and application deployment. MSI has integrated Ethernet 1GbE/10GbE solution in server storage in order to conquer avoid bottleneck of network.

✓ *SDI deployment* – Software Defined Infrastructure (SDI) has been implemented in many fields such as telecom, large enterprise, campus, industry, etc. MSI Compute Storage series series has high dencity of storage and 10GbE network to support SDI requirements in order to make SDI real into a new era.

## S1000 series
## 1U Rackmount system



**S1000 series Chassis**
- 17.22"W(437mm) x 1.7"H(43.5mm) x 25.61"D(650mm)
- 4 x Hot-swap 3.5"HDDs (Compatible 2.5") 6Gb/s
- 1 x Slim ODD
- 650W hot-plug redundant PSU
- 1 x Half length/Full height

**Server motherboard: D5010**
- Dual Intel® Xeon® E5-2600v3/v4
- Chipset Intel® C612
- 16 x DIMM slots, DDR4 ,2133/2400MHz, up to 1TB
- 3 x GbE RJ45 ports (One for Mgmt)
- 2 x 10GbE SFP+ ports

## S1100 series
## 1U Rackmount system



**S1100 series Chassis**
- 17.22"W(437mm) x 1.7"H(43.5mm) x 25.61"D(650mm)
- 4 x Hot-swap 3.5"HDDs or 8 x Hot-swap 2.5"HDDs
- 2 x Internal 2.5" HDDs
- 1 x Slim ODD
- 420W hot-plug redundant PSU
- 1 x Half length/Full height

**Server motherboard: D3000**
- Single Intel® Xeon® E3-1200v5, CoreTM i3,Pentium®G,Celeron®G
- Chipset Intel® C612
- 4 x DIMM slots, DDR4, up to 2133MHz, up to 64GB
- 2 x GbE RJ45 ports (One for Mgmt)

## S2000 series
### 2U Rackmount system



**S2000 series Chassis**
- 17.22"W(437mm) x 3.5"H(89mm) x 25.61"D(650mm)
- 12 x Hot-swap 3.5"HDDs (Compatible 2.5")
- 650W hot-plug redundant PSU
- 7 x Half length/Full height

**Server motherboard: D4010**
- Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4
- Chipset Intel® C612
- 8 x DIMM slots, DDR4 ,2133/2400MHz, up to 512GB
- 5 x GbE RJ45 ports (One for Mgmt)
- 2 x 10GbE SFP+ port

## S3000 series
### 3U Rackmount system



**S3000 series Chassis**
- 17.22"W(437.00mm) x 5.2"H(132mm) x 25.61"D(650mm)
- 16 x Hot-swap 3.5"HDDs (Compatible 2.5")
- 2 x Internal 2.5" HDDs
- 1 x Slim ODD
- 620W hot-plug redundant PSU
- 7 x Half length/Full height

**Server motherboard: D1000**
- Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4
- Chipset Intel® C222
- 4 x DIMM slots, DDR3, 1333/1600 MHz, up to 32GB
- 5 x GbE RJ45 ports (One for Mgmt)

## S4000 series
### 4U Rackmount system



**S4000 series Chassis**
- 17.22"W(437.00mm) x 7"H(177.8mm) x 25.61"D(650mm)
- 24 x Hot-swap 3.5"HDDs (Compatible 2.5")
- 2 x Internal 2.5" HDDs
- 700W hot-plug redundant PSU
- 7 x Half length/Full height

**Server motherboard: D1000**
- Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4
- Chipset Intel® C222
- 4 x DIMM slots, DDR3, 1333/1600 MHz, up to 32GB
- 5 x GbE RJ45 ports (One for Mgmt)

## H1000 series
### Tower system

**H1000 series Chassis**
- 12.2"W(310mm) x 7.87"H(200mm) x 10.63"D(270mm)
- 4 x Hot-swap 3.5"HDDs
- 2 x Internal 2.5" HDDs
- 250W hot-plug redundant PSU
- 1 x Low profile

**Server motherboard: D3000**
- Single Intel® Xeon® E3-1200v5,CoreTM i3,Pentium®G,Celeron®G
- Chipset Intel® C612
- 4 x DIMM slots, DDR4, up to 2133MHz, up to 64GB
- 2 x GbE RJ45 ports (One for Mgmt)

## H5000 series
### Tower system

**H5000 series Chassis**
- 24.4"W(620mm) x 8.7"H(220mm) x 16.7"D(425mm)
- Internal: 2 x 3.5"HDDs
- External: 2 x 5.25"HDDs, 1 x 3.5"HDDs
- 8 x Hot-swap 3.5"HDDs
- 16 x Hot-swap 2.5"HDDs
- 600W Single or 650W hot-plug redundant PSU
- 7 x Half length/full height

**Server motherboard: D5000**
- Dual Intel® Xeon® E5-2600v3/v4
- Chipset Intel® C612
- 16 x DIMM slots, DDR4 ,2133/2400MHz, up to 1TB
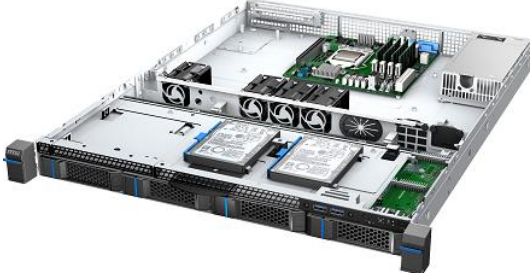- 5 x GbE RJ45 ports (One for Mgmt)

## S1000 series Chassis Specification

| Model | S1000 | | |
|---|---|---|---|
| Form factor / Dimensions | **1U Rackmount**<br>17.22"W(437mm) x 1.7"H(43.5mm) x 25.61"D(650mm) | |  |
| Front IO | 1 x Power On/Off button<br>1 x System Reset button<br>2 x USB2.0 ports | Expansion Slots | 1 x Half length/Full height |
| MB Form Factor | EATX, 13"(330.20mm) x 12"(304.80mm)<br>ATX, 12"(304.80mm) x 9.6"(243.84mm) | Indicators | 1 x Power Status<br>1 x HDD Activity<br>2 x LAN Activity<br>1 x Power Failure<br>1 x Information LED |
| Drive Bays | 4 x Hot-swap 3.5"HDDs (Compatible 2.5")<br>1 x Slim ODD (Optional) | Power Supply | 650W 1+1 hot-plug redundant PSU 80+ |
| HDD Backplane | Support SATA and SAS 6Gb/s HDD | Accessory | 26" Slide Rail (Optional) |

## S1000 series Compatible Server motherboard

| Model | Processor | Memory Capacity | Storage | Rear IO | Expansion Slots |
|---|---|---|---|---|---|
| **S1000a**<br>(D5010) | Dual Intel® Xeon® E5-2600v3/v4 product family<br>Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz ECC Registered up to 512GB ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports<br>2 x USB2.0 ports<br>3 x GbE RJ45 ports (One for Mgmt)<br>2 x 10GbE SFP+ ports<br>1 x VGA port | 3 x PCIe Gen3 x16<br>2 x PCIe Gen3 x8 |
| **S1000b**<br>(D5000) | Dual Intel® Xeon® E5-2600v3/v4 product family<br>Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz ECC Registered up to 512GB ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB2.0 ports<br>5 x GbE RJ45 ports (One for Mgmt)<br>1 x VGA port<br>1 x Serial port<br>1 x UID button | 3 x PCIe Gen3 x16<br>1 x PCIe Gen3 x8<br>2 x PCIe Gen3 x8 (x4 signal) |
| **S1000c**<br>(D4010) | Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4 product families<br>Intel® C612 | 8 x DIMM slots, 4 channel DDR4,2133/2400MHz ECC Registered up to 256GB ECC LRDIMM up to 512GB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports<br>5 x GbE RJ45 ports (One for Mgmt)<br>2 x 10GbE SFP+ ports<br>1 x VGA port<br>1 x Serial port | 2 x PCIe Gen3 x16 |
| **S1000d**<br>(D4000) | Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4 product families<br>Intel® C612 | 8 x DIMM slots, 4 channel DDR4,2133/2400MHz ECC Registered up to 256GB ECC LRDIMM up to 512GB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports<br>2 x USB2.0 ports<br>5 x GbE RJ45 ports (One for Mgmt)<br>1 x VGA port<br>1 x Serial port | 2 x PCIe Gen3 x16<br>1 x PCIe Gen3 x8<br>1 x PCIe Gen2 x8 (x4 signal)<br>1 x Mini-PCIe |
| **S1000e**<br>(D1010) | Single Intel® Xeon® E3-1200v3,CoreTM i3/i5/i7,Pentium®,Celeron®<br>Intel® C612 | 4 x DIMM slots, 2 channel DDR3, 1333/1600MHz ECC/non-ECC Unbuffered up to 32GB | 8 x SATA 6Gb/s ports + 4 x SATA 3Gb/s ports (C222 SKU)<br>12 x SATA 6Gb/s ports (H87 SKU) | 2 x USB3.0 ports<br>2 x USB2.0 ports<br>5 x GbE RJ45 ports (One for Mgmt)<br>1 x VGA port<br>1 x Serial port | 1 x PCIe Gen3 x16 (x8 signal)<br>2 x PCIe Gen2 x8 (x4 signal)<br>(C222 SKU) |

## S1100 series Chassis Specification

| Model | S1100 Series | | |
|---|---|---|---|
| Form factor/ Dimensions | **1U Rackmount** 17.22"W(437mm) x 1.7"H(43.5mm) x 25.61"D(650mm) | | |
| Front IO | 1 x Power On/Off button 1 x System Reset button 1 x UID 2 x USB3.0 ports | Expansion Slots | 1 x Half length/Full height |
| Drive Bays | 4 x Hot-swap 3.5"HDDs or 8 x Hot-swap 2.5"HDDs 2 x Internal 2.5" HDDs 1 x Slim ODD (Optional) | Indicators | 1 x Power Status 1 x HDD Activity 2 x LAN Activity 1 x Power Failure 1 x Information LED |
| MB Form Factor | ATX, 12"(304.80mm) x 9.6"(243.84mm) | Power Supply | 460W single PSU |
| HDD Backplane | Support SATA and SAS 6Gb/s HDD | Accessory | 26" Slide Rail (Optional) |

## S1100 series Compatible Server motherboard

| Model | Processor | Memory Capacity | Storage | Rear IO | Expansion Slots |
|---|---|---|---|---|---|
| **S1100** (D3000) | Single Intel® Xeon® E3-1200v5,CoreTM i3,Pentium®G,Celeron®G Intel® C232/C236 | 4 x DIMM slots, 2 channel DDR4, up to 2133MHz ECC Unbuffered SODIMM up to 64GB | 4 x SATA 6Gb/s ports 4 x SATA 6Gb/s ports (via Mini-SAS port )(C236 SKU) 4 x SATA 6Gb/s ports 2 x SATA 6Gb/s ports (via Mini-SAS port )(C232 SKU) | 2 x USB3.0 ports 2 x GbE RJ45 ports (One for Mgmt) 1 x VGA port | 1 x PCIe Gen3 x16 |

## S2000 series Chassis Specification

| Model | S2000 Series | | |
|-------|-------------|---|---|
| Form factor/ Dimensions | **2U Rackmount** 17.22"W(437mm) x 3.5"H(89mm) x 25.61"D(650mm) | | |
| Front IO | 1 x Power On/Off button 1 x System Reset button 2 x USB2.0 ports | Expansion Slots | 7 x Half length/Full height |
| Drive Bays | 12 x Hot-swap 3.5"HDDs (Compatible 2.5") | Indicators | 1 x Power Status 1 x HDD Activity 2 x LAN Activity 1 x Power Failure 1 x Information LED |
| MB Form Factor | EATX, 13"(330.20mm) x 12"(304.80mm) ATX, 12"(304.80mm) x 9.6"(243.84mm) | Power Supply | 650W 1+1 hot-plug redundant PSU 80+ |
| HDD Backplane | Support SATA and SAS 6Gb/s HDD | Accessory | 26" Slide Rail (Optional) |

## S2000 series Compatible Server motherboard

| Model | Processor | Memory Capacity | Storage | Rear IO | Expansion Slots |
|-------|-----------|-----------------|---------|---------|-----------------|
| **S2000a** (D5010) | Dual Intel® Xeon® E5-2600v3/v4 product family Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz ECC Registered up to 512GB ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports 2 x USB2.0 ports 3 x GbE RJ45 ports (One for Mgmt) 2 x 10GbE SFP+ ports 1 x VGA port | 3 x PCIe Gen3 x16 2 x PCIe Gen3 x8 |
| **S2000b** (D5000) | Dual Intel® Xeon® E5-2600v3/v4 product family Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz ECC Registered up to 512GB ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB2.0 ports 5 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port 1 x UID button | 3 x PCIe Gen3 x16 1 x PCIe Gen3 x8 2 x PCIe Gen3 x8 (x4 signal) |
| **S2000c** (D4010) | Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4 product families Intel® C612 | 8 x DIMM slots, 4 channel DDR4,2133/2400MHz ECC Registered up to 256GB ECC LRDIMM up to 512GB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports 5 x GbE RJ45 ports (One for Mgmt) 2 x 10GbE SFP+ ports 1 x VGA port 1 x Serial port | 2 x PCIe Gen3 x16 |
| **S2000d** (D4000) | Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4 product families Intel® C612 | 8 x DIMM slots, 4 channel DDR4,2133/2400MHz ECC Registered up to 256GB ECC LRDIMM up to 512GB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports 2 x USB2.0 ports 5 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port | 2 x PCIe Gen3 x16 1 x PCIe Gen3 x8 1 x PCIe Gen2 x8 (x4 signal) 1 x Mini-PCIe |
| **S2000e** (D1010) | Single Intel® Xeon® E3-1200v3,CoreTM i3/i5/i7,Pentium®,Celeron® Intel® C612 | 4 x DIMM slots, 2 channel DDR3, 1333/1600MHz ECC/non-ECC Unbuffered up to 32GB | 8 x SATA 6Gb/s ports + 4 x SATA 3Gb/s ports (C222 SKU) 12 x SATA 6Gb/s ports (H87 SKU) | 2 x USB3.0 ports 2 x USB2.0 ports 5 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port | 1 x PCIe Gen3 x16 (x8 signal) 2 x PCIe Gen2 x8 (x4 signal) (C222 SKU) |

## S3000 series Chassis Specification

| Model | S3000 Series | | |
|---|---|---|---|
| Form factor/ Dimensions | **3U Rackmount** 17.22"W(437.00mm) x 5.2"H(132mm) x 25.61"D(650mm) | | |
| Front IO | 1 x Power On/Off button 1 x System Reset button 2 x USB2.0 ports | Expansion Slots | 7 x Half length/Full height |
| Drive Bays | 16 x Hot-swap 3.5"HDDs (Compatible 2.5") 2 x Internal 2.5" HDDs (Optional) 1 x Slim ODD (Optional) | Indicators | 1 x Power Status 1 x HDD Activity 2 x LAN Activity 1 x Power Failure 1 x Information LED |
| MB Form Factor | EATX, 13"(330.20mm) x 12"(304.80mm) ATX, 12"(304.80mm) x 9.6"(243.84mm) | Power Supply | 620W 1+1 redundant PSU 80+ |
| HDD Backplane | Support SATA and SAS 6Gb/s HDD | Accessory | 26" Slide Rail (Optional) |

## S3000 series Compatible Server motherboard

| Model | Processor | Memory Capacity | Storage | Rear IO | Expansion Slots |
|---|---|---|---|---|---|
| **S3000a** (D5010) | Dual Intel® Xeon® E5-2600v3/v4 product family Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz ECC Registered up to 512GB ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports 2 x USB2.0 ports 3 x GbE RJ45 ports (One for Mgmt) 2 x 10GbE SFP+ ports 1 x VGA port | 3 x PCIe Gen3 x16 2 x PCIe Gen3 x8 |
| **S3000b** (D5000) | Dual Intel® Xeon® E5-2600v3/v4 product family Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz ECC Registered up to 512GB ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB2.0 ports 5 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port 1 x UID button | 3 x PCIe Gen3 x16 1 x PCIe Gen3 x8 2 x PCIe Gen3 x8 (x4 signal) |
| **S3000c** (D4010) | Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4 product families Intel® C612 | 8 x DIMM slots, 4 channel DDR4,2133/2400MHz ECC Registered up to 256GB ECC LRDIMM up to 512GB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports 5 x GbE RJ45 ports (One for Mgmt) 2 x 10GbE SFP+ ports 1 x VGA port 1 x Serial port | 2 x PCIe Gen3 x16 |
| **S3000d** (D4000) | Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4 product families Intel® C612 | 8 x DIMM slots, 4 channel DDR4,2133/2400MHz ECC Registered up to 256GB ECC LRDIMM up to 512GB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports 2 x USB2.0 ports 5 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port | 2 x PCIe Gen3 x16 1 x PCIe Gen3 x8 1 x PCIe Gen2 x8 (x4 signal) 1 x Mini-PCIe |
| **S3000e** (D1000) | Single Intel® Xeon® E3-1200v3,CoreTM i3/i5/i7,Pentium®,Celeron® Intel® C222/B85 | 4 x DIMM slots, 2 channel DDR3, 1333/1600MHz ECC/non-ECC Unbuffered up to 32GB | 8 x SATA 6Gb/s ports + 4 x SATA 3Gb/s ports (C222 SKU) 12 x SATA 6Gb/s ports (H87 SKU) | 2 x USB3.0 ports 2 x USB2.0 ports 3 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port | 1 x PCIe Gen3 x16 (x8 signal) 2 x PCIe Gen2 x8 (x4 signal) (C222 SKU) |

## S4000 series Chassis Specification

| Model | S4000 Series | | |
|---|---|---|---|
| Form factor/ Dimensions | **4U Rackmount**<br>17.22"W(437.00mm) x 7"H(177.8mm) x 25.61"D(650mm) | |  |
| Front IO | 1 x Power On/Off button<br>1 x System Reset button<br>2 x USB2.0 ports | Expansion Slots | 7 x Half length/Full height |
| Drive Bays | 24 x Hot-swap 3.5"HDDs (Compatible 2.5")<br>2 x Internal 2.5" HDDs (Optional) | Indicators | 1 x Power Status<br>1 x HDD Activity<br>2 x LAN Activity<br>1 x Power Failure<br>1 x Information LED |
| MB Form Factor | EATX, 13"(330.20mm) x 12"(304.80mm)<br>ATX, 12"(304.80mm) x 9.6"(243.84mm) | Power Supply | 700W 1+1 redundant PSU 80+ |
| HDD Backplane | Support SATA and SAS 6Gb/s HDD | Accessory | 26" Slide Rail (Optional) |

## S4000 series Compatible Server motherboard

| Model | Processor | Memory Capacity | Storage | Rear IO | Expansion Slots |
|---|---|---|---|---|---|
| **S4000a**<br>(D5010) | Dual Intel® Xeon® E5-2600v3/v4 product family<br>Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz<br>ECC Registered up to 512GB<br>ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports<br>2 x USB2.0 ports<br>3 x GbE RJ45 ports (One for Mgmt)<br>2 x 10GbE SFP+ ports<br>1 x VGA port | 3 x PCIe Gen3 x16<br>2 x PCIe Gen3 x8 |
| **S4000b**<br>(D5000) | Dual Intel® Xeon® E5-2600v3/v4 product family<br>Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz<br>ECC Registered up to 512GB<br>ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB2.0 ports<br>5 x GbE RJ45 ports (One for Mgmt)<br>1 x VGA port<br>1 x Serial port<br>1 x UID button | 3 x PCIe Gen3 x16<br>1 x PCIe Gen3 x8<br>2 x PCIe Gen3 x8 (x4 signal) |
| **S4000c**<br>(D4000) | Single Intel® Xeon® E5-2600v3/v4,<br>E5-1600v3/v4 product families<br>Intel® C612 | 8 x DIMM slots, 4 channel DDR4,2133/2400MHz<br>ECC Registered up to 256GB<br>ECC LRDIMM up to 512GB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports<br>2 x USB2.0 ports<br>5 x GbE RJ45 ports (One for Mgmt)<br>1 x VGA port<br>1 x Serial port | 2 x PCIe Gen3 x16<br>1 x PCIe Gen3 x8<br>1 x PCIe Gen2 x8 (x4 signal)<br>1 x Mini-PCIe |
| **S4000d**<br>(D1000) | Single Intel® Xeon® E3-1200v3,CoreTM i3/i5/i7,Pentium®,Celeron®<br>Intel® C222/B85 | 4 x DIMM slots, 2 channel DDR3, 1333/1600MHz<br>ECC/non-ECC Unbuffered up to 32GB | 8 x SATA 6Gb/s ports + 4 x SATA 3Gb/s ports (C222 SKU)<br>12 x SATA 6Gb/s ports (H87 SKU) | 2 x USB3.0 ports<br>2 x USB2.0 ports<br>5 x GbE RJ45 ports (One for Mgmt)<br>1 x VGA port<br>1 x Serial port | 1 x PCIe Gen3 x16 (x8 signal)<br>2 x PCIe Gen2 x8 (x4 signal) (C222 SKU) |

## H1000 series Chassis Specification

| Model | H1000 Series | | |
|---|---|---|---|
| Form factor/ Dimensions | **Mini-ITX Tower** 12.2"W(310mm) x 7.87"H(200mm) x 10.63"D(270mm) | | |
| Front IO | 1 x Power On/Off button 1 x System Reset button 2 x USB2.0 ports | Expansion Slots | 1 x Low profile |
| Drive Bays | 4 x Hot-swap 3.5"HDDs 2 x Internal 2.5" HDDs | Indicators | 1 x Power Status 1 x HDD Activity 1 x Warning LED |
| MB Form Factor | Mini-ITX, 6.7"(170mm) x 6.7"(170mm) | Power Supply | 250W single PSU |
| HDD Backplane | Support SATA and SAS 6Gb/s HDD | Accessory | N/A |

## H1000 series Compatible Server motherboard

| Model | Processor | Memory Capacity | Storage | Rear IO | Expansion Slots |
|---|---|---|---|---|---|
| **H1000** (D3000) | Single Intel® Xeon® E3-1200v5,CoreTM i3,Pentium®G,Celeron®G Intel® C232/C236 | 4 x DIMM slots, 2 channel DDR4, up to 2133MHz ECC Unbuffered SODIMM up to 64GB | 4 x SATA 6Gb/s ports 4 x SATA 6Gb/s ports (via Mini-SAS port )(C236 SKU) 4 x SATA 6Gb/s ports 2 x SATA 6Gb/s ports (via Mini-SAS port )(C232 SKU) | 2 x USB3.0 ports 2 x GbE RJ45 ports (One for Mgmt) 1 x VGA port | 1 x PCIe Gen3 x16 |

## H5000 series Chassis Specification

| Model | H5000 Series | | |
|---|---|---|---|
| Form factor/ Dimensions | **EATX Tower** 24.4"W(620mm) x 8.7"H(220mm) x 16.7"D(425mm) | | |
| Front IO | 1 x Power On/Off button 1 x System Reset button 2 x USB2.0 ports | Expansion Slots | 7 x Half length/Full height |
| Drive Bays | Internal: 2 x 3.5"HDDs External: 2 x 5.25"HDDs, 1 x 3.5"HDDs 8 x Hot-swap 3.5"HDDs 16 x Hot-swap 2.5"HDDs | Indicators | 1 x Power Status 1 x HDD Activity 1 x Warning LED 2 x LAN Activity |
| MB Form Factor | EATX, 13"(330.20mm) x 12"(304.80mm) ATX, 12"(304.80mm) x 9.6"(243.84mm) | Power Supply | 600W single PSU or 650W 1+1 hot-plug redundant PSU 80+ |
| HDD Backplane | Support  6Gb/s SATA or mini-SAS (by 3.5" or 2.5" HDD cage) 12Gb/s mini-SAS HD(for 3.5" HDD cage only) | Accessory | N/A |

## H5000 series Compatible Server motherboard

| Model | Processor | Memory Capacity | Storage | Rear IO | Expansion Slots |
|---|---|---|---|---|---|
| **H5000a** (D5010) | Dual Intel® Xeon® E5-2600v3/v4 product family Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz ECC Registered up to 512GB ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB3.0 ports 2 x USB2.0 ports 3 x GbE RJ45 ports (One for Mgmt) 2 x 10GbE SFP+ ports 1 x VGA port | 3 x PCIe Gen3 x16 2 x PCIe Gen3 x8 |
| **H5000b** (D5000) | Dual Intel® Xeon® E5-2600v3/v4 product family Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz ECC Registered up to 512GB ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x USB2.0 ports 5 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port 1 x UID button | 3 x PCIe Gen3 x16 1 x PCIe Gen3 x8 2 x PCIe Gen3 x8 (x4 signal) |

# Server Motherboard Specification

| Model | Form Factor | Processor | Memory Capacity | Storage | Networking | Rear IO | Expansion Slots |
|---|---|---|---|---|---|---|---|
| **D5000**  | EATX, 13"(330.2mm) × 12"(304.8mm) | Dual Intel® Xeon® E5-2600v3/v4 product family Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz ECC Registered up to 512GB ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 4 x GbE RJ45 ports + 1 x GbE Mgmt port - Intel® i350 AM4 x 1 (1 x Shared NIC) - Realtek RTL8211E x 1 (for Mgmt) | 2 x USB2.0 ports 5 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port 1 x UID button | 3 x PCIe Gen3 x16 1 x PCIe Gen3 x8 2 x PCIe Gen3 x8 (x4 signal) |
| **D5010**  | EATX, 13"(330.2mm) × 12"(304.8mm) | Dual Intel® Xeon® E5-2600v3/v4 product family Intel® C612 | 16 x DIMM slots , 4 channel DDR4 ,2133/2400MHz ECC Registered up to 512GB ECC LRDIMM up to 1 TB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 2 x GbE RJ45 ports + 2 x 10G SFP+ ports + 1 x GbE Mgmt port - Intel® i210AT x 2 (1 x Shared NIC) - Intel® 82599ES x 1 - Realtek RTL8211E x1 (for Mgmt) | 2 x USB3.0 ports 2 x USB2.0 ports 3 x GbE RJ45 ports (One for Mgmt) 2 x 10GbE SFP+ ports 1 x VGA port | 3 x PCIe Gen3 x16 2 x PCIe Gen3 x8 |
| **D4000**  | ATX, 12"(304.8mm) × 9.6"(243.84mm) | Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4 product families Intel® C612 | 8 x DIMM slots, 4 channel DDR4,2133/2400MHz ECC Registered up to 256GB ECC LRDIMM up to 512GB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 4 x GbE RJ45 ports + 1 x GbE Mgmt port - Intel® i210AT x 2 (1 x Shared NIC) - Intel® i350AM2 x 1 (1 x Shared NIC) - Realtek RTL8211E x 1 (for Mgmt) | 2 x USB3.0 ports 2 x USB2.0 ports 5 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port | 2 x PCIe Gen3 x16 1 x PCIe Gen3 x8 1 x PCIe Gen2 x8 (x4 signal) 1 x Mini-PCIe |
| **D4010**  | ATX, 12"(304.8mm) × 9.6"(243.84mm) | Single Intel® Xeon® E5-2600v3/v4, E5-1600v3/v4 product families Intel® C612 | 8 x DIMM slots, 4 channel DDR4,2133/2400MHz ECC Registered up to 256GB ECC LRDIMM up to 512GB | 10 x SATA 6Gb/s ports (1 x w/VCC supported) | 4 x GbE RJ45 ports + 2 x 10GbE SFP+ ports + 1 x GbE Mgmt port - Intel® i210AT x 4 (1 x Shared NIC) - Intel® 82599ES x 1 - Realtek RTL8211E x 1 (for Mgmt) | 2 x USB3.0 ports 5 x GbE RJ45 ports (One for Mgmt) 2 x 10GbE SFP+ ports 1 x VGA port 1 x Serial port | 2 x PCIe Gen3 x16 |
| **D3000**  | Mini-ITX, 6.7"(170mm) × 6.7"(170mm) | Single Intel® Xeon® E3-1200v5,CoreTM i3,Pentium®G,Celeron®G Intel® C232/C236 | 4 x DIMM slots, 2 channel DDR4, up to 2133MHz ECC Unbuffered SODIMM up to 64GB | 4 x SATA 6Gb/s ports + 4 x SATA 6Gb/s ports (via Mini-SAS port )(C236 SKU) 4 x SATA 6Gb/s ports + 2 x SATA 6Gb/s ports (via Mini-SAS port )(C232 SKU) | 1 x GbE RJ45 port + 1 x GbE Mgmt port - Intel® i210AT x 1 (1 x Shared NIC) - Intel® 219LM x 1 | 2 x USB3.0 ports 2 x GbE RJ45 ports (One for Mgmt) 1 x VGA port | 1 x PCIe Gen3 x16 |

## Server Motherboard Specification

| Model | Form Factor | Processor | Memory Capacity | Storage | Networking | Rear IO | Expansion Slots |
|---|---|---|---|---|---|---|---|
| **D1000** | ATX, 12"(304.8mm) × 9.6"(243.84mm) | Single Intel® Xeon® E3-1200v3,CoreTM i3/i5/i7,Pentium®,Celeron® Intel® C222/B85 | 4 x DIMM slots, 2 channel DDR3, 1333/1600MHz ECC/non-ECC Unbuffered up to 32GB | 8 x SATA 6Gb/s ports + 4 x SATA 3Gb/s ports (C222 SKU) 12 x SATA 6Gb/s ports (H87 SKU) | 2 x GbE RJ45 ports + 1 x GbE Mgmt port - Intel® i210AT x 2 - Realtek RTL8211E x 1 (for Mgmt) | 2 x USB3.0 ports 2 x USB2.0 ports 3 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port | 1 x PCIe Gen3 x16 (x8 signal) 2 x PCIe Gen2 x8 (x4 signal)　(C222 SKU) |
| **D1010** | ATX, 12"(304.8mm) × 9.6"(243.84mm) | Single Intel® Xeon® E3-1200v3,CoreTM i3/i5/i7,Pentium®,Celeron® Intel® C222/H87 | 4 x DIMM slots, 2 channel DDR3, 1333/1600 MHz ECC Unbuffered up to 32GB | 22 x SATA 6Gb/s ports + 2 x SATA 3Gb/s ports (via Mini-SAS ports)(C222 SKU) 24 x SATA 6Gb/s ports (via Mini-SAS ports)(B85 SKU) 1 x SATA 3Gb/s ports (w/VCC supported) 1 x mSATA port | 4 x GbE RJ45 ports + 1 x GbE Mgmt port - Intel® i210AT x 2 - Realtek RTL8211E x 1 (for Mgmt) | 2 x USB3.0 ports 2 x USB2.0 ports 5 x GbE RJ45 ports (One for Mgmt) 1 x VGA port 1 x Serial port | 1 x PCIe Gen3 x16 (x8 signal) 2 x PCIe Gen3 x8 (x4 signal) (C222 SKU) |
| **D1020** | 9.3"(236.22mm) × 9.0"(228.6mm) | Single Intel Core™i3/i5/i7, Pentium®, Celeron® product family Intel® B150 | 2 x DIMM slots, 2 channel DDR4,2133MHz ECC/non-ECC UDIMM up to 32GB | 6 x SATA 6Gb/s ports | 1 x GbE RJ45 port + 1 x 10GbE SFP+ port - Realtek RTL8111H x 1 - Intel® 82599EN x 1 | 1 x PS/2 Keyboard port 1 x PS/2 Mouse port 4 x USB3.0 ports 1 x GbE RJ45 port 1 x 10GbE SFP+ port 1 x DVI-D port 1 x HDMI port 3 x Audio Jacks(Line In/Line Out/Microphone) | 1 x PCIe Gen3 x16 2 x PCIe Gen3 x1 |

## MSI Storage adapter series

MSI MEZ series storage adapter provides internal storage expansion within MSI Compute Storage series. By reason of data growth is quicker than ever so Compute Storage series needs more and more storage capability for many IT solutions. MSI MEZ series has mini-SAS port to expand capacity and including RAID technology to enhance reliability for your system. We have 3 models of storage adapter for Compute Storage series for now, please find below products we recommended and validated on all MSI server motherboards.

### MEZ-100

**Chipset: Marvell 88SE9235**

1 x Mini-SAS port

(Support 4 x SATA 6Gb/s port)

1 x PCIe2 x4 golden finger

### MEZ-201a

**Chipset: LSI LSISAS3008**

2 x Mini-SAS 12Gb/s ports

(Support 8 x SAS 12Gb/s ports or 8 x SATA 6Gb/s ports)

1 x PCIe Gen3 x8 golden finger

RAID type: RAID0, RAID1,RAID10,RAID1E

### MEZ-201b

**Chipset: LSI LSISAS3008**

2 x Mini-SAS 12Gb/s ports

(Support 8 x SAS 12Gb/s ports or 8 x SATA 6Gb/s ports)

1 x PCIe Gen3 x8 golden finger

RAID type: RAID0, RAID1,RAID5, RAID10,RAID50