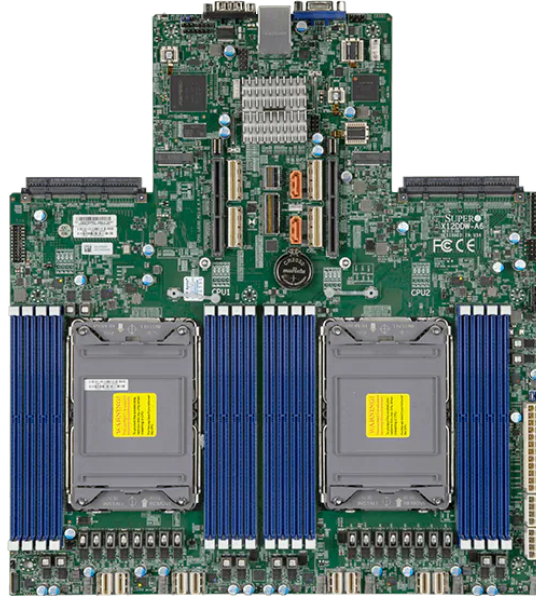


X12DDW-A6



WIO

Key Features

3rd Gen Intel® Xeon® Scalable processors

Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s

Intel® C621A

Up to 4TB RDIMM, DDR4-3200MHz; Up to 4TB LRDIMM, DDR4-3200MHz

Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz (OC), in 16 DIMM slots

1 PCIe 4.0 x16 Left Riser Slot,

1 PCIe 4.0 x16 Right Riser Slot,

2 PCIe 4.0 x16 Center Right Hand Slot,

8 PCIe 4.0 NVMe Internal Port(s)

M.2 Interface: 2 PCIe 2.0 x1

M.2 Form Factor: 2260/2280

M.2 Key: M-Key

2 PCIe 4.0 x16, AIOM slots Superset of OCP 3.0 Expansion

Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 VGA D-Sub Connector port

AIOM for LAN

Optimized Servers

[SYS-120C-TN10R](#)

[SYS-120C-TR](#)

[SYS-610C-TR](#)

[SYS-620C-TN12R](#)

Specifications

Product SKUs**MBD-X12DDW-A6****Physical Stats****Form Factor**

Proprietary WIO

Dimension

12.288" x 13.404" (31.21cm x 34.05cm)

Processor**CPU**

3rd Gen Intel® Xeon® Scalable processors

Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s

Core

Up to 40 cores

System Memory**Memory Capacity**

16 DIMM slots

Up to 4TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz

Up to 4TB ECC LRDIMM, DDR4-3200MHz; Up to 4TB ECC RDIMM, DDR4-3200MHz

Memory Type

3200/2933/2666 MT/s ECC DDR4 LRDIMM, RDIMM

DIMM Sizes

16GB, 32GB, 64GB, 128GB, 256GB

LRDIMM: 16GB, 32GB, 64GB, 128GB, 256GB

RDIMM: 16GB, 32GB, 64GB, 128GB, 256GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

Detects double-bit errors (using ECC memory)

On-Board Devices**Chipset**

Intel® C621A

SATA

Intel® C621A controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2600 BMC

Graphics

1 ASPEED AST2600 BMC port(s)

Network Controllers

AIOM for LAN

Input / Output**USB**

4 USB 3.1 Gen1 port(s) (2 via header; 2 rear)

Video Output

1 VGA D-Sub Connector port(s)

Serial Port

1 COM Port(s) (1 header)

TPM

1 TPM Header

Expansion Slots**PCIe**

1 PCIe 4.0 x16 Left Riser Slot,

1 PCIe 4.0 x16 Right Riser Slot,

2 PCIe 4.0 x16 Center Right Hand Slot,

2 PCIe 4.0 x16, AIOM slots Superset of OCP 3.0 Expansion

M.2

M.2 Interface: 2 PCIe 3.0 x2

Form Factor: 2260/2280

Key: M-Key

System BIOS**BIOS Type**

AMI UEFI

Management**Software**[Redfish API](#), [Supermicro Server Manager \(SSM\)](#),[Supermicro Power Manager \(SPM\)](#), [Supermicro Update](#)[Manager \(SUM\)](#), [SuperDoctor® 5](#), [Super Diagnostics](#)[Offline](#), [KVM with dedicated LAN](#), [IPMI 2.0](#)**System Management Software**

IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support

Power Configurations

ATX Power connector

Security**Hardware**

Trusted Platform Module (TPM) 2.0

PC Health Monitoring**Voltage**

PCH temperature, Monitors CPU voltages, CPU temperature, Chassis intrusion header, 6 -fan status, +5V standby, +12V, Memory Voltages, CPU thermal trip support, +1.8V PCH

LED

UID/Remote UID

Power LED

BMC/IPMI Heartbeat LED

Temperature

Monitoring for CPU and chassis environment

CPU thermal trip support

FAN

6 fans with tachometer status monitoring

Other Features

WOL, UID, RoHS, Node Manager Support, Chassis intrusion

detection, ATX Power connector, ACPI power management, RoT, NCSI header

Operating Environment**Operating Temperature Range**

10°C - 35°C (50°F - 95°F)

Non-Operating Temperature Range

-40°C - 70°C (-40°F - 158°F)

Operating Relative Humidity Range

8% - 90% (non-condensing)

Non Operating Relative Humidity Range

5% - 95% (non-condensing)

Parts List