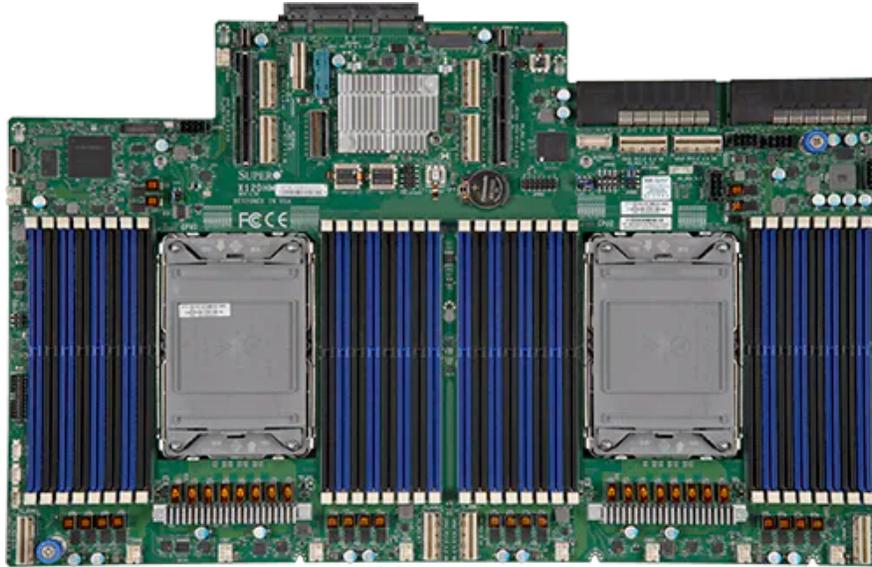


# X12DHM-6 (For SuperServer Only)

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**Hyper Series**

## 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 8TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 8TB 3DS ECC LRDIMM, DDR4-3200MHz

Up to 8TB Intel® Optane™ Persistent Memory, DDR4-3200MHz, in 32 DIMM slots

5 PCIe 4.0 x16,

8 PCIe 4.0 NVMe x4

**M.2 Interface:** 2 SATA/PCIe 3.0 x2, RAID 0 & 1

**M.2 Form Factor:** 2280/22110

1 PCIe 4.0 x16, AIOM (OCP3.0 Compliant)

Intel® C621A controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 VGA D-Sub Connector port

## Optimized Servers

[SYS-120H-TNR](#)

[SYS-220HE-FTNR](#)

[SYS-220HE-FTNRD](#)

[SYS-620H-TN12R](#)

[SYS-220H-TN24R](#)

[SYS-220HE-FTNR-US](#)

[SYS-220HE-FTNR-NEBS](#)

[SYS-220HE-FTNRD-NEBS](#)

[SYS-220HE-TNR](#)

[SYS-220HE-TNRD](#)

## Specifications

## Product SKUs

### MBD-X12DHM-6

## Physical Stats

### Form Factor

Proprietary

### Dimension

17" x 10.7" (43.18cm x 27.18cm)

## 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

32 DIMM slots

Up to 8TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz

Up to 8TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 8TB 3DS ECC RDIMM, DDR4-3200MHz

### Memory Type

ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

### DIMM Sizes

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 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

### IPMI

ASPEED AST2600 BMC

### Graphics

1 ASPEED AST2600 BMC port(s)

### Network Controllers

N/A

## Input / Output

### LAN

1 RJ45 Dedicated IPMI LAN port

### USB

4 USB 3.2 Gen1 port(s) (4 via header)

### 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, AIOM (OCP3.0 Compliant),

5 PCIe 4.0 x16

### M.2

M.2 Interface: 2 SATA/PCIe 3.0 x2, RAID 0 & 1

Form Factor: 2280/22110

## 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](#)

## Security

### Hardware

Trusted Platform Module (TPM) 2.0

## PC Health Monitoring

### Voltage

PCH temperature, Monitors CPU voltages, Memory temperature, CPU temperature, Chassis intrusion header, 3.3V standby, +5V standby, +12V, VRM temperature, Monitors for CPU Cores, Memory Voltages, 10 -fan status, +1.8V PCH

### LED

UID/Remote UID

BMC/IPMI Heartbeat LED

### FAN

10x 6-pin fan headers (up to 10 fans)

10x fans with tachometer monitoring

## Other Features

WOL, UID, Node Manager Support, CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion header, Chassis intrusion detection, ACPI power management, RoT, RoHS, Halogen Free, 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

### Optional Parts

#### TPM security module

Part Number	AOM-TPM-9670H	AOM-TPM-9670V
Qty	1	1

Description	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor
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