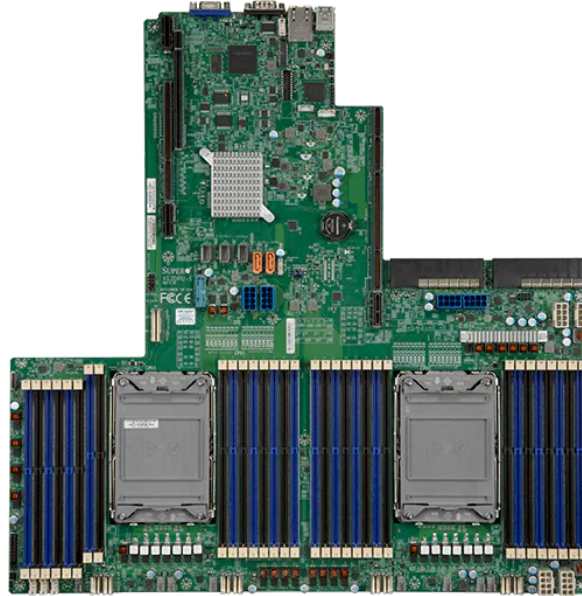


X12DPU-6 (For SuperServer Only)



Ultra 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 200 Series, DDR4-3200MHz, in 32 DIMM slots

1 PCIe 4.0 x32 Right Riser Slot,

1 PCIe 4.0 x16 Right Riser Slot,

1 PCIe 4.0 x40 Ultra Riser Slot,

1 NVMe x4 Internal Port(s)

Intel® C621A controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 VGA D-Sub Connector port

Networking options provided via Ultra Riser

Optimized Servers

[SYS-120U-TNR](#)

[SYS-610U-TNR](#)

[SYS-220U-TNR](#)

[SYS-220U-MTNR](#)

[SYS-620U-TNR](#)

Specifications

Product SKUs

MBD-X12DPU-6

Physical Stats

Form Factor

Proprietary

Dimension

17" x 16.8" (43.18cm x 42.67cm)

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

3200/2933/2666 MT/s ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

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

Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset

Intel® C621A

SATA

Intel® C621A controller for 14 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2600 BMC

Graphics

1 ASPEED AST2600 BMC port(s)

Network Controllers

Networking options provided via Ultra Riser

Input / Output

USB

4 USB 3.2 Gen1 port(s) (2 via header; 2 rear)

Video Output

1 VGA D-Sub Connector port(s)

Serial Port

1 COM Port(s) (1 rear)

TPM

1 TPM Header

Expansion Slots

PCIe

1 PCIe 4.0 x16 Right Riser Slot,

1 PCIe 4.0 x32 Right Riser Slot,

1 PCIe 4.0 x40 Ultra Riser Slot

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, Chassis intrusion header, 3.3V standby, +5V standby, +12V, Memory Voltages, 8 -fan status, +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

8x 4-pin fan headers (up to 8 fans)

8x fans with tachometer monitoring

Other Features

WOL, UID, RoHS, Node Manager Support, CPU thermal trip support for processor protection, Chassis intrusion header, Chassis intrusion detection, ACPI power management, RoT, RoHS, Halogen Free

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