

X12DPT-B6 (For SuperServer Only)



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 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 20 DIMM slots

1 PCIe 4.0 x16 Left Riser Slot,

1 PCIe 4.0 x16 Right Riser Slot,

1 PCIe 4.0 x8 connector for SMC add-on cards

1 PCIe 4.0 x8 Proprietary Storage Slot,

1 PCIe 4.0 x16 AIOM Networking Slot,

1 PCIe 4.0 x8 M.2 Slot

M.2 Form Factor: 2260/2280/22110

1 PCIe 4.0 x16

Intel® C621A controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 VGA port

Single LAN with

Networking options provided via AIOM module

Optimized Servers

[SYS-220BT-HNC8R](#)

[SYS-220BT-HNTR](#)

[SYS-220BT-HNC9R](#)

[SYS-620BT-HNC8R](#)

[SYS-620BT-HNTR](#)

[SYS-220BT-DNC8R](#)

[SYS-220BT-DNTR](#)

[SYS-620BT-DNC8R](#)

[SYS-620BT-DNTR](#)

[SYS-220BT-HNC8R-US](#)

Specifications

Product SKUs**MBD-X12DPT-B6****Physical Stats****Form Factor**

Proprietary Twin

Dimension

7.6" x 18.9" (19.3cm x 48.01cm)

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 38 cores

System Memory**Memory Capacity**

20 DIMM slots

Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz

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

Memory Type

ECC DDR4 LRDIMM, RDIMM

DIMM Sizes

32GB, 64GB, 128GB

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

RDIMM: 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® C621 controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Graphics

1 ASPEED AST2600 BMC port(s)

Network Controllers

Single LAN, Networking options provided via AIOM module

Input / Output**SATA**

12 SATA3 (6Gbps) port(s)

USB

2 USB 3.2 Gen1 port(s) (2 rear)

Video Output

1 VGA 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,

1 PCIe 4.0 x8 connector for SMC add-on cards,

1 PCIe 4.0 x16 AIOM,

1 PCIe 4.0 x8 Proprietary Storage adapter Slot,

PCIe 4.0 x16 AIOM Networking Slot,

PCIe 4.0 x8 M.2 Slot

M.2

Form Factor: 2260/2280/22110

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](#)**Power Configurations**

ACPI Power Management

Security**Hardware**

Trusted Platform Module (TPM) 2.0

PC Health Monitoring**Voltage**

Monitors CPU voltages, Chipset Voltage, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.8V, Memory Voltages

LED

UID/Remote UID

BMC/IPMI Heartbeat LED

Temperature

Monitoring for CPU and chassis environment

CPU thermal trip support

FAN

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

PWM fan speed control

Other Features

WOL, UID, RoHS, Node Manager Support, CPU thermal trip support for processor protection, SDDC

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 (optional, not included)

Part Number AOM-TPM-9670H

Qty	1
Description	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor
