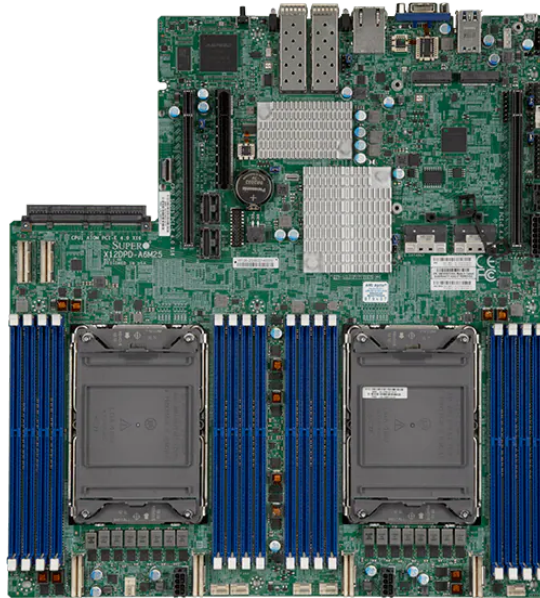


X12DPD-A6M25 (For SuperServer Only)



Datcenter Optimized

Key Features

3rd Gen Intel® Xeon® Scalable processors

Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP

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, in 16 DIMM slots

3 PCIe 4.0 x16 (in x16 slot),

8 PCIe 3.0 NVMe x4

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

M.2 Form Factor: 2242/2280

M.2 Key: M-Key

1 PCIe 4.0 x16, AIOM superset of OCP 3.0 Ethernet

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

Dual LAN with 25GbE with Mellanox ConnectX-4 Lx EN

1 VGA D-Sub Connector port

Optimized Servers

[SSG-610P-ACR12N4L](#)

[SSG-610P-ACR12N4H](#)

Specifications

Product SKUs**MBD-X12DPD-A6M25****Physical Stats****Form Factor**

Proprietary

Dimension

12" x 13" (30.48cm x 33.02cm)

Processor**CPU**

3rd Gen Intel® Xeon® Scalable processors

Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP

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

IPMI

ASPEED AST2600 BMC

Graphics

1 ASPEED AST2600 BMC port(s)

Network Controllers

Dual LAN with 25GbE with Mellanox ConnectX-4 Lx EN

Input / Output**USB**

4 USB 3.1 Gen2 port(s) (2 via header; 2 rear)

Video Output

1 VGA D-Sub Connector port(s)

TPM

1 TPM Header

Expansion Slots**PCIe**

1 PCIe 4.0 x16, AIOM superset of OCP 3.0 Ethernet,

3 PCIe 4.0 x16 (in x16 slot)

M.2

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

Form Factor: 2242/2280

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](#)**Security****Hardware**

Trusted Platform Module (TPM) 2.0

PC Health Monitoring**Voltage**

CPU temperature, CPU, Chipset Voltage, 1.2V (VDIMM), Memory Voltages, CPU thermal trip support, 6 Phase-switching voltage regulator, +1.0V PCH

LED

UID/Remote UID

Power LED

BMC/IPMI Heartbeat LED

Temperature

Support to monitor Supermicro AOC temperatures from IPMI or SD 5

FAN

6x 4-pin fan headers (up to 6 fans)

6 fans with tachometer status monitoring

Other Features

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

Chassis intrusion detection, RoT

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