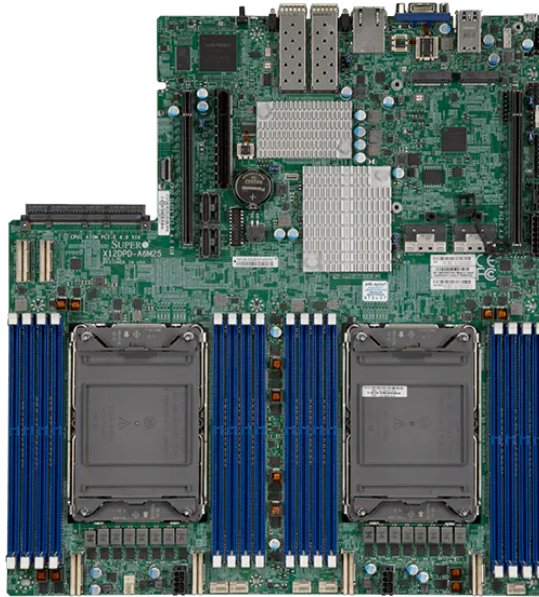


X12DPD-A6M25 (For SuperServer Only)



Datacenter Optimized

Key Features

1. 3rd Gen Intel® Xeon® Scalable processors
Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
2. Intel® C621A
3. 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
4. 3 PCI-E 4.0 x16 (in x16 slot),
8 PCI-E 3.0 NVMe x4
M.2 Interface: 2 PCI-E 3.0 x2, RAID 0 & 1
M.2 Form Factor: 2242/2280
M.2 Key: M-Key
1 PCI-E 4.0 x16, AIOM superset of OCP 3.0 Ethernet
5. Intel® C621A controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10
6. Dual LAN with 25GbE with Mellanox ConnectX-4 Lx EN
7. 1 VGA D-Sub Connector port

Specifications

Expansion Slots

PCI-E	<ul style="list-style-type: none"> 3 PCI-E 4.0 x16 (in x16 slot)
M.2	<ul style="list-style-type: none"> M.2 Interface: 2 PCI-E 3.0 x2, RAID 0 & 1 Form Factor: 2242/2280 Key: M-Key

System BIOS

BIOS Type	<ul style="list-style-type: none"> AMI UEFI
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Management

Software	<ul style="list-style-type: none"> SuperDoctor® 5, NMI, <u>SUM</u>, KVM with dedicated LAN, <u>SPM</u>, Intel® Node Manager, <u>SSM</u>, <u>IPMI2.0</u>, Watchdog, IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, SuperDoctor® III
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PC Health Monitoring

Voltage	<ul style="list-style-type: none"> CPU temperature, CPU, Chipset Voltage, 1.2V (VDIMM), Memory Voltages, CPU thermal trip support, 6 Phase-switching voltage regulator, +1.0V PCH
LED	<ul style="list-style-type: none"> UID/Remote UID Power LED BMC/IPMI Heartbeat LED
Temperature	<ul style="list-style-type: none"> Support to monitor Supermicro AOC temperatures from IPMI or SD 5
FAN	<ul style="list-style-type: none"> 6x 4-pin fan headers (up to 6 fans) 6 fans with tachometer status monitoring
Other Features	<ul style="list-style-type: none"> WOL, UID, RoHS, Node Manager Support, Chassis intrusion header, Chassis intrusion detection, RoT

Operating Environment

Operating Temperature Range	<ul style="list-style-type: none"> 10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	<ul style="list-style-type: none"> -40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	<ul style="list-style-type: none"> 8% - 90% (non-condensing)
Non Operating Relative Humidity Range	<ul style="list-style-type: none"> 5% - 95% (non-condensing)

Product SKUs

MBD-X12DPD-A6M25	<ul style="list-style-type: none"> X12DPD-A6M25
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Physical Stats

Form Factor	<ul style="list-style-type: none"> Proprietary
Dimension	<ul style="list-style-type: none"> 12" x 13" (30.48cm x 33.02cm)

Processor

CPU	<ul style="list-style-type: none"> 3rd Gen Intel® Xeon® Scalable processors Dual Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
Core	<ul style="list-style-type: none"> Up to 40 cores

System Memory

Memory Capacity	<ul style="list-style-type: none"> 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	<ul style="list-style-type: none"> 3200/2933/2666MHz ECC DDR4 LRDIMM, RDIMM
DIMM Sizes	<ul style="list-style-type: none"> 16GB, 32GB, 64GB, 128GB, 256GB LRDIMM: 16GB, 32GB, 64GB, 128GB, 256GB RDIMM: 16GB, 32GB, 64GB, 128GB, 256GB
Memory Voltage	<ul style="list-style-type: none"> 1.2V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C621A
SATA	<ul style="list-style-type: none"> Intel® C621A controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	<ul style="list-style-type: none"> ASPEED AST2600 BMC
Graphics	<ul style="list-style-type: none"> ASPEED AST2600 BMC
Network Controllers	<ul style="list-style-type: none"> Dual LAN with 25GbE with Mellanox ConnectX-4 Lx EN

Input / Output

USB	<ul style="list-style-type: none"> 4 USB 3.1 Gen2 port(s) (2 via header; 2 rear)
Video Output	<ul style="list-style-type: none"> 1 VGA D-Sub Connector port(s)
TPM	<ul style="list-style-type: none"> 1 TPM Header

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X12DPD-A6M25	1	X12DPD-A6M25 Motherboard

Server (Optimized for X12DPD-A6M25)

Server Name
<u>SSG-610P-ACR12N4L</u>
<u>SSG-610P-ACR12N4H</u>

