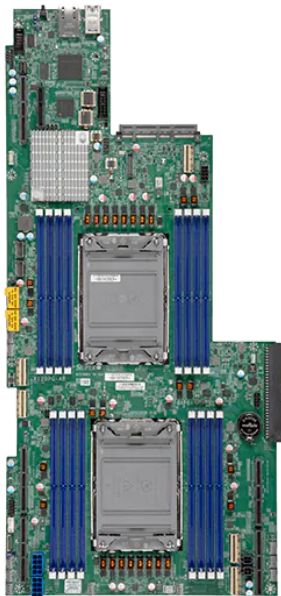


X12DPG-AR (For SuperServer Only)



GPU Serverboard

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

Up to 8GB Unbuffered ECC Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 16 DIMM slots

6 PCIe 4.0 x16

2 PCIe 4.0 x8

M.2 Interface: 2 PCIe 4.0 x4

M.2 Form Factor: 2280/22110

Flexible networking options

1 VGA port

Optimized Servers

[SYS-220GP-TNR](#)

Specifications

Product SKUs**MBD-X12DPG-AR****Physical Stats****Form Factor**

Proprietary

Dimension

9.15" x 19.8" (23.24cm x 50.29cm)

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**

16 DIMM slots

Up to 6TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz

Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz

Memory Type

3200/2933/2666 MT/s 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

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

Network Controllers

N/A

Input / Output**USB**

2 USB 3.2 Gen2 port(s) (2 rear)

Video Output

1 VGA port(s)

Serial Port

1 COM Port(s) (1 rear)

TPM

1 TPM Header

Expansion Slots**PCIe**

1 PCIe 4.0 x8 AIOM,

2 PCIe 4.0 x8,

6 PCIe 4.0 x16

M.2

M.2 Interface: 2 PCIe 3.0 x4

Form Factor: 2280/22110

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](#)**System Management Software**

IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support

Power Configurations

ACPI / ACPM Power Management

Security**Hardware**

Trusted Platform Module (TPM) 2.0

PC Health Monitoring**Voltage**

VBAT, PCH temperature, Memory temperature, Memory, CPU temperature, CPU, Chipset Voltage, Chassis intrusion header, 1.2V (VDIMM), +5V standby, +5V, +3.3V, +12V, VRM temperature, Memory Voltages, CPU thermal trip support, +1.0V PCH, 8x fans with tachometer monitoring

LED

UID/Remote UID

Power LED

BMC/IPMI Heartbeat LED

Temperature

Monitoring for CPU and chassis environment

CPU thermal trip support

FAN

Fan speed control

8x fans with tachometer monitoring

Other Features

UID

CPU thermal trip support for processor protection

Chassis intrusion header

Chassis intrusion detection

ACPI power management

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