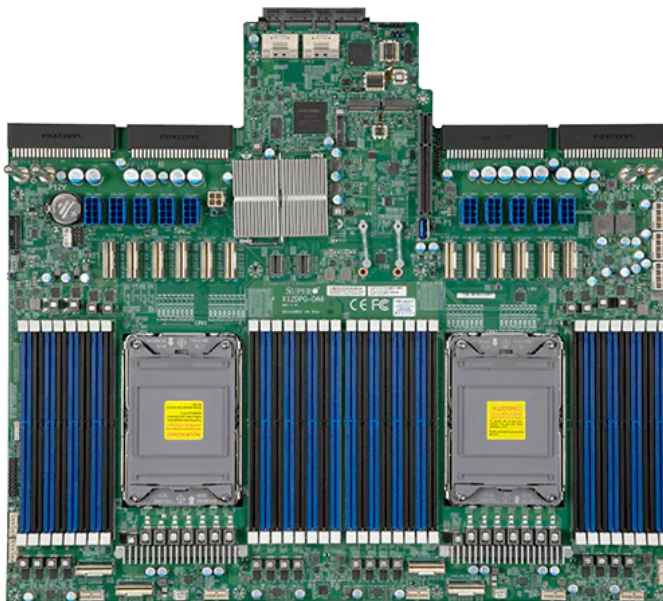


# X12DPG-OA6 (For SuperServer Only)

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**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 8TB 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 32 DIMM slots

16 PCIe 4.0 x8

**M.2 Interface:** 2 PCIe 4.0 x4

**M.2 Form Factor:** 2280/22110

1 PCIe 4.0 x16

Networking options provided via Ultra RiserDual LAN with 1GbE LAN via Intel® i350-AM2

1 VGA port

## Optimized Servers

[SYS-420GP-TNR](#)

## Specifications

**Product SKUs****MBD-X12DPG-OA6****Physical Stats****Form Factor**

Proprietary

**Dimension**

15" x 17" (38.1cm x 43.18cm)

**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 8GB Unbuffered 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**

ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

**DIMM Sizes**

N/A

**Memory Voltage**

1.2V

**On-Board Devices****Chipset**

Intel® C621A

**IPMI**

ASPEED AST2600 BMC

**Network Controllers**

Dual LAN with 1GbE LAN via Intel® i350-AM2

**Input / Output****SATA**

8 SATA3 (6Gbps) port(s)

**USB**

5 USB 3.2 Gen2 port(s) (2 via header; 2 rear; 1 type A)

**Video Output**

1 VGA port(s)

**Serial Port**

1 COM Port(s) (1 header)

**Expansion Slots****PCIe**

1 PCIe 4.0 x16 AIOM,

16 PCIe 4.0 x8

**M.2**

M.2 Interface: 2 PCIe 4.0 x4

Form Factor: 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](#)**System Management Software**

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

**Power Configurations**

ACPI Power Management, Power supply monitoring

**Security****Hardware**

Trusted Platform Module (TPM) 2.0

**PC Health Monitoring****Voltage**

VBAT, System temperature, PCH temperature, Memory temperature, Memory, CPU temperature, CPU, 1.2V (VDIMM), 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, VRM temperature, Memory Voltages, CPU thermal trip support, 10 -fan status, +1.0V PCH

**FAN**

PWM fan speed control

Fan speed control

Dual Cooling Zone

10x fans with tachometer monitoring

**Other Features**

Chassis intrusion detection

NCSI header

**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