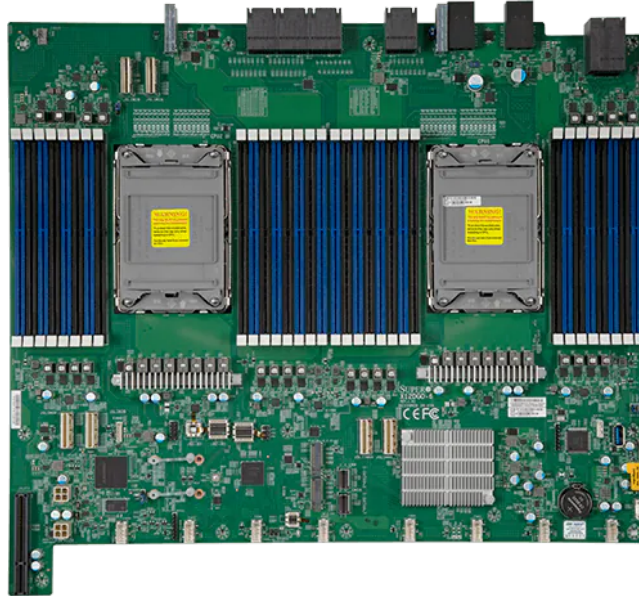# X12DGO-6 (For SuperServer Only)



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

Up to 8GB Unbufferred ECC Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz, in 32 DIMM slots

3 PCIe 4.0 x16

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

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

Intel® C621A controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

1 VGA port

## Optimized Servers

SYS-420GP-TNAR

SYS-420GP-TNAR+

SYS-420GP-TNAR+-US

## Specifications

**Product SKUs**
**MBD-X12DGO-6**

**Physical Stats**
**Form Factor**
Proprietary
**Dimension**
15.09" x 16.85" (38.33cm x 42.8cm)

**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 8TB 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**
LRDIMM: 16GB, 32GB, 64GB, 128GB, 256GB
RDIMM: 16GB, 32GB, 64GB, 128GB, 256GB
**Memory Voltage**
1.2V

**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**
**SATA**
8 SATA3 (6Gbps) port(s)
**USB**
3 USB 3.2 Gen2 port(s) (2 type A; 1 via header)
3 USB 3.1 Gen2 port(s) (2 type A; 1 via header)
**Video Output**
1 VGA port(s)
**Serial Port**
1 COM Port(s) (1 header)
**TPM**
1 TPM Header

**Expansion Slots**
**PCIe**
3 PCIe 4.0 x16
**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, CPU temperature, CPU, 3.3V standby, +5V, +3.3V, VRM temperature, Memory Voltages, CPU thermal trip support
**FAN**
8x fans with tachometer monitoring

**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