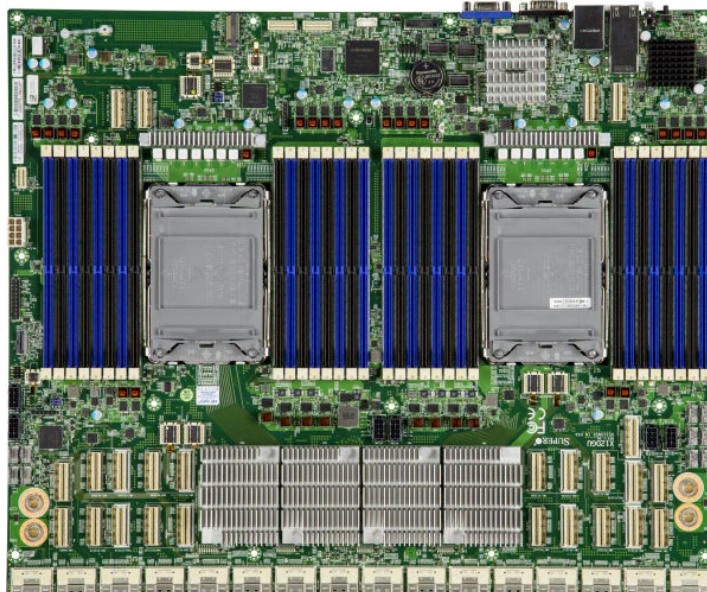


X12DGU (For SuperServer Only)



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

25 PCIe 4.0 x8

M.2 Interface: 1 PCIe 4.0 x4

M.2 Form Factor: 2280/22110

1 PCIe 4.0 x16

Dual LAN with 2x 10Gbase-T with Intel® Ethernet Controller X710

1 VGA port

Optimized Servers

[SYS-420GU-TNXR](#)

[SYS-420GU-TNXR \(in 4U\)](#)

[SYS-420GU-TNXR \(in 5U\)](#)

Specifications

Product SKUs**MBD-X12DGU****Physical Stats****Form Factor**

Proprietary

Dimension

14.29" x 10.9" (17.32cm x 27.69cm)

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

Up to 8TB Intel® Optane™ Persistent Memory in memory mode.

Memory Type

3200/2933/2666 MT/s ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

DIMM Sizes

8GB, 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

Network Controllers

Dual LAN with 10Gbase-T

Input / Output**SATA**

12 SATA3 (6Gbps) port(s)

USB

2 USB 3.1 Gen1 port(s) (2 rear)

Video Output

1 VGA port(s)

Serial Port

1 COM Port(s) (1 Serial Port)

TPM

1 TPM Header

Expansion Slots**PCIe**

25 PCIe 4.0 x8

M.2

M.2 Interface: 1 PCIe 4.0 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 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

10x 4-pin fan headers (up to 10 fans)

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