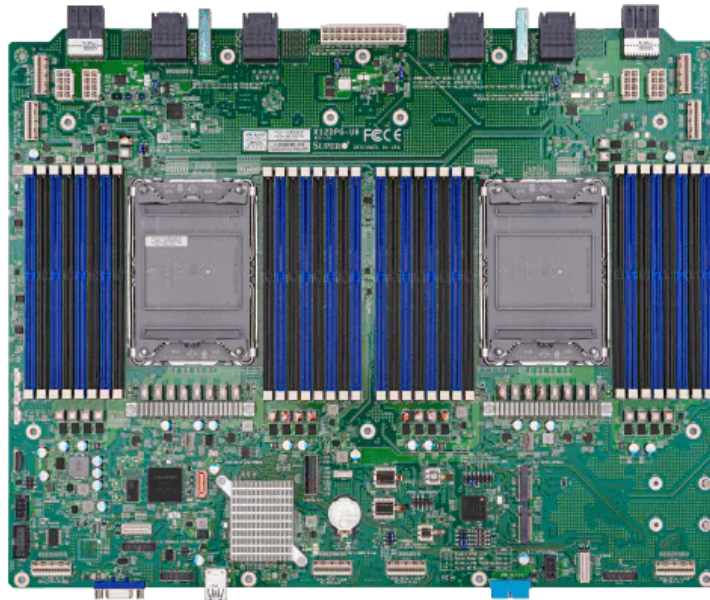


X12DPG-U6 (For SuperServer Only)



GPU Serverboard

Key Features

3rd Gen Intel® Xeon® Scalable processors.

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, DDR4-2933MHz, in 32 DIMM slots

8 PCIe 4.0 x16

M.2 Interface: 2 PCIe 4.0 x4, RAID 0 & 1

M.2 Form Factor: 2280/22110

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

1 VGA D-Sub Connector port

Optimized Servers

[SYS-420GH-TNGR](#)

Specifications

Product SKUs**MBD-X12DPG-U6****Physical Stats****Form Factor**

Proprietary

Dimension

13.98" x 11.81" (35.51cm x 30cm)

Processor**CPU**

3rd Gen Intel® Xeon® Scalable processors

Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP, 3 UPI up to 11.2 GT/s

System Memory**Memory Capacity**

32 DIMM slots

Up to 8GB Unbuffered Intel® Optane™ Persistent Memory 200 Series, DDR4-2933MHz

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

Memory Type

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

DIMM Sizes

16GB, 32GB, 64GB, 128GB, 256GB

LRDIMM: 128GB, 256GB

RDIMM: 64GB, 128GB

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 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10

IPMI

ASPEED AST2600 BMC

Graphics

1 ASPEED AST2600 BMC port(s)

Network Controllers

N/A

Input / Output**USB**

3 USB 3.2 Gen1 port(s) (2 rear; 1 via header)

Video Output

1 VGA D-Sub Connector port(s)

DOM1 SATA DOM (Disk on Module) power connector support**TPM**

1 TPM Header

Expansion Slots**PCIe**

8 PCIe 4.0 x16

M.2

M.2 Interface: 2 PCIe 4.0 x4, RAID 0 & 1

Form Factor: 2280/22110

Key: M-Key

System BIOS**BIOS Type**

64MB 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](#)**Security****Hardware**

Trusted Platform Module (TPM) 2.0

PC Health Monitoring**Voltage**

Chassis intrusion header, 3.3V standby, 1.2V (VDIMM), 1.05 (PCH), +5V standby, +5V, +3.3V, CPU thermal trip support, 6+1 Phase-switching voltage regulator

Other Features

Node Manager Support

CPU thermal trip support for processor protection

Chassis intrusion detection

RoT

NCSI header

FAN

0x 4-pin fan header (up to 0 fan)

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