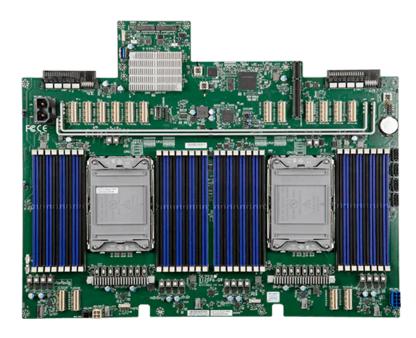
# X12DPG-QR (For SuperServer Only)



**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

8 PCIe 4.0 x8 SlimSAS ports supporting 4 Nvidia Redstone GPUs

8 PCIe 4.0 x8 SlimSAS ports supporting 4 AOC

M.2 Interface: 2 Hybrid PCIe 4.0 x4 / SATA3

**M.2 Form Factor:** 2280/22110 Flexible networking options

## **Optimized Servers**

SYS-220GQ-TNAR+

## **Specifications**

# Product SKUs MBD-X12DPG-QR

## **Physical Stats**

## Form Factor

Proprietary

#### Dimension

17.3" x 13.7" (43.94cm x 34.8cm)

## 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 8GB 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**

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

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

#### IPMI

ASPEED AST2600 BMC

#### **Network Controllers**

N/A

#### Input / Output

## USB

1 USB 3.2 Gen2 port(s) (1 rear Through riser card)

## **Video Output**

1 VGA port(s) Through riser card

#### **Serial Port**

1 COM Port(s) (1 rear Through riser card)

#### **TPM**

1 TPM Header

#### **Expansion Slots**

#### **PCIe**

8 PCIe 4.0 x8 SlimSAS

#### 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**

System temperature, PCH temperature, Memory temperature, CPU temperature, Chipset Voltage, 3.3V standby, 1.2V (VDIMM), 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, VRM temperature, LAN temperature, CPU thermal trip support, +1.8V PCH

## LED

UID/Remote UID

Power LED

**BMC/IPMI** Heartbeat LED

#### **Temperature**

Monitoring for CPU and chassis environment

CPU thermal trip support

#### FAN

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

Fan speed control

6 fans with tachometer status 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**