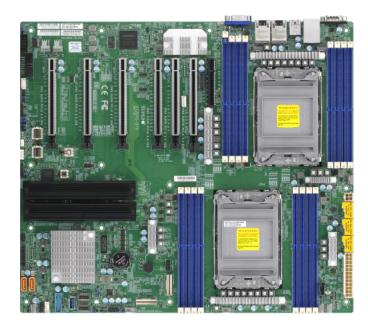
X12DPG-QT6



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

Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog

Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz

Up to 6TB Intel® Optane™ Persistent Memory 200 Series, in 16 DIMM slots;

Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode.

6 PCle 4.0 x16,

1 PCIe 4.0 x8

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

M.2 Form Factor: 2242/2260/2280/22110

M.2 Key: M-Key

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

Dual LAN with Intel® X550 10GBase-T Ethernet Controller

Integrated IPMI 2.0 and KVM with Dedicated LAN

5 USB 3.0 ports, 4 USB 2.0 ports

HD Audio with optical S/PDIF

Optimized Servers

SYS-740GP-TNRT

Specifications

Product SKUs MBD-X12DPG-QT6

Physical Stats

Form Factor

Proprietary

Dimension

15.12" x 13.2" (38.43cm x 33.53cm)

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

Up to 40 cores

System Memory **Memory Capacity**

16 DIMM slots

Up to 6TB Intel® Optane™ Persistent Memory 200 Series

Up to 4TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 4TB 3DS ECC RDIMM, DDR4-3200MHz

Up to 6TB Intel® Optane™ DC Persistent Memory in memory mode.

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

IPMI

ASPEED AST2600 BMC

Audio

7.1 HD Audio Header

Graphics

1 ASPEED AST2600 BMC port(s)

Network Controllers

Dual LAN with Intel® X550 10GBase-T Ethernet Controller

Input / Output

SATA

10 SATA3 (6Gbps) port(s)

USB

10 USB 3.1 Gen1 port(s) (1 via header; 1 type A; 3 rear type A; 1 rear type C; 4 rear)

2 USB 2.0 port(s) (2 via header)

Video Output

1 VGA D-Sub Connector port(s)

Serial Port

2 COM Port(s) (1 header; 1 rear)

DOM

2 SuperDOM (Disk on Module) port with build power

Expansion Slots

PCIe

1 PCle 4.0 x8,

6 PCIe 4.0 x16

M.2

M.2 Interface: 2 PCIe 4.0 x4, RAID 0 & 1 Form Factor: 2242/2260/2280/22110

Key: M-Key

System BIOS

BIOS Type

AMI UEFI

BIOS Features

Plug and Play (PnP)

ACPI 1.0 / 2.0 / 3.0 / 4.0

USB Keyboard support

SMBIOS 2.7.1

UEFI 2.3.1

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

Power Configurations

ACPI Power Management

Security

Hardware

Trusted Platform Module (TPM) 2.0

PC Health Monitoring

Voltage

VBAT, Supports system management utility, HT, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V, +1.8V, 5+1 Phase-switching voltage regulator, 10 -fan status

LED

UID/Remote UID

Suspend static indicator LED

CPU / System Overheat LED

FAN

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

Status monitoring for speed control

Pulse Width Modulated (PWM) fan connectors

Other Features

RoHS

Node Manager Support

CPU thermal trip support for processor protection

Chassis intrusion detection

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)

TPM

1 TPM Header

Parts List

Standard Parts (Bulk Package)

CPU carrier

Part Number SKT-1205L-P4IC-FXC

Qty 2

Description CPU carrier for 3rd Gen

Intel Xeon Scalable

Processors

I/O Shield

Part Number MCP-260-00150-0N

Qty 1

Description X12DPG-QT6 I/O SHIELD

SATA Cables

Part Number CBL-0044L • @Store

Qty 2

Description 57.5 cm SATA FLAT S-S

PBF