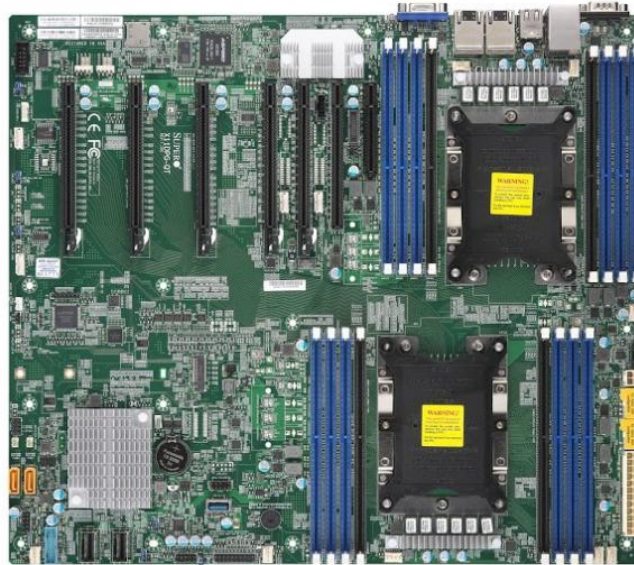


# X11DPG-QT

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**GPU Serverboard**  
**3 UPI**  
**4 GPUs**

## Key Features

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors, , Dual Socket LGA-3647 (Socket P) supported, CPU TDP support Up to 205W TDP, 3 UPI up to 10.4 GT/s

Intel® Node Manager, IPMI2.0, KVM with dedicated LAN, NMI, SPM, SSM, SUM, SuperDoctor® 5, Watchdog Intel® C621

Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz

Or 2TB DCPMM, DDR4-2666MHz, in 16 DIMM slots;

Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only).

6 PCIe 3.0 x16,

1 PCIe 3.0 x4 (in x8 slot)

**M.2 Interface:** PCIe 3.0 x4

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

**M.2 Key:** M-Key

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

Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10

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-7049GP-TRT](#)

## Specifications

**Product SKUs****MBD-X11DPG-QT****Physical Stats****Form Factor**

Proprietary

**Dimension**

15.12" x 13.2" (38.4cm x 33.53cm)

**Processor****CPU**

2nd Gen Intel® Xeon® Scalable Processors and Intel® Xeon® Scalable Processors

Dual Socket LGA-3647 (Socket P) supported, CPU TDP supports Up to 205W TDP, 3 UPI up to 10.4 GT/s

**Core**

Up to 28 cores

**Note**

BIOS version 3.2 or above is required to support 2nd Gen Intel® Xeon® Scalable processors (codenamed Cascade Lake-R)

**System Memory****Memory Capacity**

16 DIMM slots

Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-2666MHz

Up to 4TB 3DS ECC LRDIMM, DDR4-2933MHz; Up to 4TB 3DS ECC RDIMM, DDR4-2933MHz

Up to 2TB Intel® Optane™ DC Persistent Memory in memory mode (Cascade Lake only).

**Memory Type**

2933/2666/2400/2133 MT/s ECC DDR4 LRDIMM (3DS), RDIMM (3DS)

**DIMM Sizes**

LRDIMM: 128GB, 256GB

RDIMM: 64GB, 128GB

**Memory Voltage**

1.2V

**On-Board Devices****Chipset**

Intel® C621

**SATA**

Intel® C621 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10

**IPMI**

ASPEED AST2500

**Audio**

7.1 HD Audio Header

**Graphics**

1 ASPEED AST2500 BMC port(s)

**Network Controllers**

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

**Input / Output****SATA**

10 SATA3 (6Gbps) port(s)

**USB**

4 USB 2.0 port(s) (2 rear; 2 via header)

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

2 USB 3.0 port(s) (2 rear)

**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**

6 PCIe 3.0 x16,

1 PCIe 3.0 x4 (in x8 slot)

**M.2**

M.2 Interface: PCIe 3.0 x4

Form Factor: 22110, 2280

Key: M-Key

**System BIOS****BIOS Type****Management****Software**SuperDoctor® 5, NMI, SUM, KVM with dedicated LAN, SPM, Intel®Node Manager, SSM, IPMI2.0, Watchdog**Power Configurations**

ACPI Power Management

**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

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## Parts List