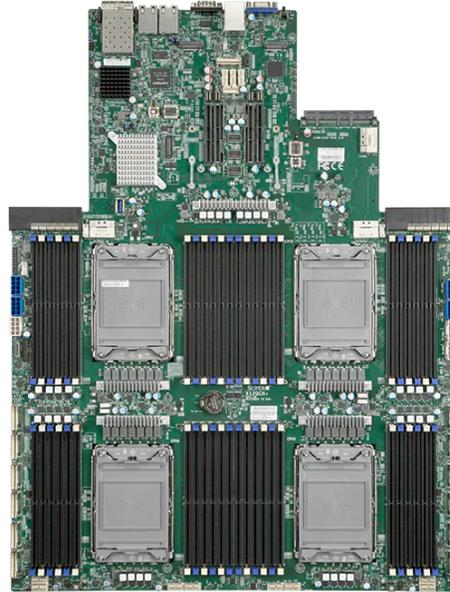


# X12QCH+ (For SuperServer Only)

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**MP Solutions**

## Key Features

3rd Generation Intel® Xeon® Scalable processors

Quad Socket LGA-4189 (Socket P+) supported, CPU TDP support Up to 250W TDP, 6 UPI up to 10.4 GT/s

Intel® C621A

Up to 12TB 3DS ECC LRDIMM/ RDIMM, DDR4-3200MHz; Up to 18TB 3DS ECC DDR4-3200:LRDIMM/RDIMM/Intel®

DCPMM , in 48 DIMM slots

3 PCIe 3.0 x32 Left Riser Slot,

3 PCIe 3.0 x32 Right Riser Slot

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

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

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

U.2 Interface: 8 PCIe 3.0 x4 and 8 PCIe 3.0 x4 and 8 PCIe 3.0 x4 and 8 PCIe 3.0 x4

1 PCIe 3.0 x32 Left Riser Slot, Riser card PN: RSC-D2-668G4

1 PCIe 3.0 x32 Right Riser Slot, Riser card PN: RSC-D2R-668G4

Intel® C621A controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10

Quad LAN with

2x 10G BaseT with Intel® X710-TM4; 2x 10G SFP+ with Intel® X710-TM4,

(Optional) AIOM up to 100G QSFP 28

1 VGA port

## Optimized Servers

[SYS-240P-TNRT](#)

[SYS-440P-TNRT](#)

## Specifications

**Product SKUs****MBD-X12QCH+****Physical Stats****Form Factor**

Proprietary

**Dimension**

17" x 21.9" (43.18cm x 55.63cm)

**Processor****CPU**

3rd Gen Intel® Xeon® Scalable processors

Quad Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 250W TDP, 6 UPI up to 10.4 GT/s

**Core**

Up to 28 cores

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

48 DIMM slots

Up to 12TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 12TB 3DS ECC RDIMM, DDR4-3200MHz

**Memory Type**

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

**DIMM Sizes**

16GB, 32GB, 64GB, 128GB

LRDIMM: 16GB, 32GB, 64GB, 128GB, 256GB

RDIMM: 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 AST2500 BMC

**Network Controllers**

Quad LAN, 2x 10G BaseT with Intel® X710-TM4; 2x 10G SFP+ with Intel® X710-TM4,(Optional) AIOM up to 100G QSFP 28

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

12 SATA3 (6Gbps) port(s)

**LAN**

4

**USB**

2 USB 3.2 Gen1 port(s) (2 rear type A)

**Video Output**

1 VGA port(s)

**Serial Port**

1 COM Port(s) (1 rear)

**TPM**

1 TPM Header

**Expansion Slots****PCIe**

1 PCIe 3.0 x32 Left Riser Slot AIOM, Riser card PN: RSC-D2-668G4,

1 PCIe 3.0 x32 Right Riser Slot AIOM, Riser card PN: RSC-D2R-668G4,

3 PCIe 3.0 x32 Left Riser Slot,

3 PCIe 3.0 x32 Right Riser Slot

**M.2**

M.2 Interface: 2 SATA/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](#)**Security****Hardware**

Trusted Platform Module (TPM) 2.0

**PC Health Monitoring****Voltage**

VBAT, Supports system management utility, Monitors CPU voltages, Chassis intrusion header, 3.3V standby, +5V standby, +5V, +3.3V, +12V

**LED**

UID/Remote UID

CPU / System Overheat LED

**FAN**

12x 6-pin fan headers (up to 12 fans)

Fan speed control

**Other Features**

UID

RoHS

CPU thermal trip support for processor protection

ACPI power management

RoT

## Parts List