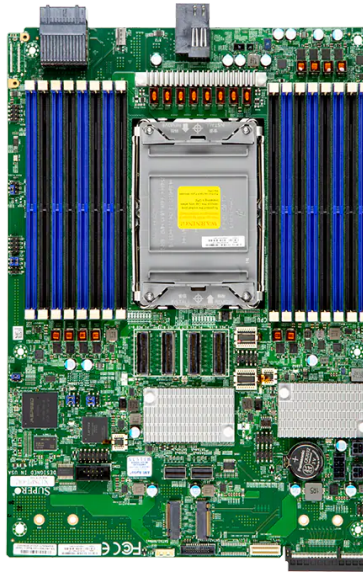


X12SPT-GC (For SuperServer Only)



GrandTwin UP Serverboard

Key Features

3rd Gen Intel® Xeon® Scalable processors

Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP

Intel® C621A

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

Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 16 DIMM slots

1x PCIe 4.0 x8 4C connector (for front I/O module), 4x PCIe 4.0 x8 MCIO connectors

LSI 3808 controller for 6 SAS3 ports

M.2 Interface: 2 PCIe 3.0 x4&SATA, **M.2 Form Factor:** 2280

Optimized Servers

[SYS-210GT-HNC8F](#)

Specifications

Product SKUs**MBD-X12SPT-GC****Physical Stats****Form Factor**

Proprietary

Dimension

8.53" x 12.42" (21.67cm x 31.55cm)

Processor**CPU**

3rd Gen Intel® Xeon® Scalable processors

Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP

Core

Up to 40 cores

System Memory**Memory Capacity**

16 DIMM slots

Up to 2TB Intel® Optane™ Persistent Memory 200 Series

Up to 2TB ECC LRDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 2TB ECC RDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz

Memory Type

3200/2933/2666 MT/s ECC , DDR4 LRDIMM, RDIMM

DIMM Sizes

8GB, 16GB, 32GB, 64GB, 128GB, 256GB

DCPMM: 64GB, 128GB, 256GB

LRDIMM: 64GB, 128GB

LRDIMM: 128GB, 256GB

RDIMM: 8GB, 16GB, 32GB, 64GB

RDIMM: 64GB, 128GB, 256GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

On-Board Devices**Chipset**

Intel® C621A

SAS

Broadcom 3808 SAS3 (12 Gbps) controller for 6 SAS3 (6 Gbps) ports

Graphics

1 ASPEED AST2600 BMC port(s)

Network Controllers

N/A

Input / Output**Serial Port**

1 COM Port(s) (1 header)

TPM

1 TPM Header

Expansion Slots**PCIe**

N/A

M.2

M.2 Interface: 2 SATA/PCIe 3.0 x4, RAID 0 & 1

Form Factor: 2280

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

Power-on mode for AC power recovery, ACPI Power Management

Security**Hardware**

Trusted Platform Module (TPM) 2.0

PC Health Monitoring**Voltage**

VBAT, PCH temperature, Memory temperature, CPU temperature, +5V standby, +5V, +3.3V, +12V, +1.8V, VRM temperature, Memory Voltages, CPU thermal trip support

LED

UID/Remote UID

BMC/IPMI Heartbeat LED

Other Features

WOL, UID, RoHS, Node Manager Support, RoT, NCSI header

FAN

1x 4-pin fan header (up to 1 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

Optional Parts

TPM security module (optional, not included)

Part Number	AOM-TPM-9671V	AOM-TPM-9670V
Qty	1	1
Description	SPI capable TPM 1.2 with Infineon 9670 controller with vertical form factor	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor