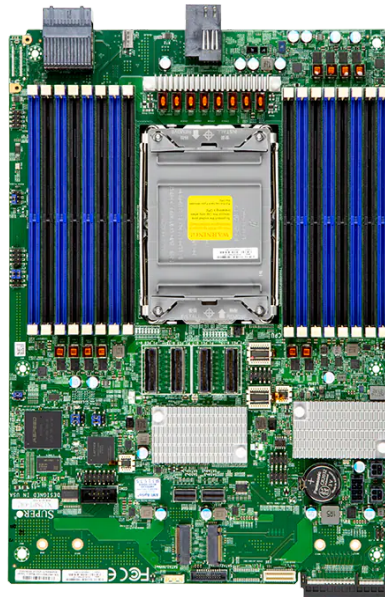


X12SPT-GC (For SuperServer Only)



GrandTwin UP Serverboard

Key Features

1. 3rd Gen Intel® Xeon® Scalable processors
Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
2. Intel® C621A
3. 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
4. 1x PCI-E 4.0 x8 4C connector (for front I/O module), 4x PCI-E 4.0 x8 MCIO connectors
5. LSI 3808 controller for 6 SAS3 ports
6. **M.2 Interface:** 2 PCI-E 4.0 x4, **M.2 Form Factor:** 2280

Specifications

Product SKUs

MBD-X12SPT-GC	<ul style="list-style-type: none"> X12SPT-GC
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Physical Stats

Form Factor	<ul style="list-style-type: none"> Proprietary
Dimension	<ul style="list-style-type: none"> 8.53" x 12.42" (21.67cm x 31.55cm)

Processor

CPU	<ul style="list-style-type: none"> 3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported, CPU TDP supports Up to 270W TDP
Core	<ul style="list-style-type: none"> Up to 40 cores

System Memory

Memory Capacity	<ul style="list-style-type: none"> 16 DIMM slots Up to 2TB Intel® Optane™ Persistent Memory 200 Series Up to 2TB 3DS ECC LRDIMM, DDR4-3200MHz; Up to 2TB 3DS ECC RDIMM, DDR4-3200MHz
Memory Type	<ul style="list-style-type: none"> 3200/2933/2666MHz ECC , DDR4 LRDIMM (3DS), RDIMM (3DS)
DIMM Sizes	<ul style="list-style-type: none"> 8GB, 16GB, 32GB, 64GB, 128GB, 256GB DCPMM: 64GB, 128GB, 256GB LRDIMM: 64GB, 128GB, 256GB RDIMM: 8GB, 16GB, 32GB, 64GB, 128GB, 256GB
Memory Voltage	<ul style="list-style-type: none"> 1.2V
Error Detection	<ul style="list-style-type: none"> Corrects single-bit errors

On-Board Devices

Chipset	<ul style="list-style-type: none"> Intel® C621A
SAS	<ul style="list-style-type: none"> Intel® C621A controller for 10 SAS3 (6 Gbps) ports; RAID 0,1,5,10
Graphics	<ul style="list-style-type: none"> ASPEED AST2600 BMC
Network Controllers	<ul style="list-style-type: none"> N/A

Input / Output

Serial Port	<ul style="list-style-type: none"> 1 COM Port(s) (1 header)
TPM	<ul style="list-style-type: none"> 1 TPM Header

Expansion Slots

PCI-E	<ul style="list-style-type: none"> N/A
M.2	<ul style="list-style-type: none"> M.2 Interface: 2 SATA/PCI-E 3.0 x4, RAID 0 & 1 Form Factor: 2280 Key: M-Key

System BIOS

BIOS Type	<ul style="list-style-type: none"> AMI UEFI
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Management

Software	<ul style="list-style-type: none"> SuperDoctor® 5, NMI, <u>SUM</u>, KVM with dedicated LAN, <u>SPM</u>, Intel® Node Manager, SSM, Watchdog, <u>IPMI (Intelligent Platform Management Interface) v2.0 with KVM support</u>
System Management Software	<ul style="list-style-type: none"> IPMI (Intelligent Platform Management Interface) v1.5 / 2.0 with KVM support
Power Configurations	<ul style="list-style-type: none"> Power-on mode for AC power recovery, ACPI Power Management

PC Health Monitoring

Voltage	<ul style="list-style-type: none"> VBAT, PCH temperature, Memory temperature, CPU temperature, +5V standby, +5V, +3.3V, +12V, +1.8V, VRM temperature, Memory Voltages, CPU thermal trip support
LED	<ul style="list-style-type: none"> UID/Remote UID BMC/IPMI Heartbeat LED
Other Features	<ul style="list-style-type: none"> WOL, UID, RoHS, Node Manager Support, RoT, NCSI header
FAN	<ul style="list-style-type: none"> 1x 4-pin fan header (up to 1 fan)

Operating Environment

Operating Temperature Range	<ul style="list-style-type: none"> 10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	<ul style="list-style-type: none"> -40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range	<ul style="list-style-type: none"> 8% - 90% (non-condensing)
Non Operating Relative Humidity Range	<ul style="list-style-type: none"> 5% - 95% (non-condensing)

Parts List

Parts List (Bulk Package)			
Name	Part Number	Qty	Description
Motherboard	MBD-X12SPT-GC	1	X12SPT-GC Motherboard

Optional Parts List			
Name	Part Number	Qty	Description
TPM security module (optional, not included)	AOM-TPM-9671H	1	SPI Capable Horizontal TPM 1.2 Module SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor
	AOM-TPM-9670H	1	

Server (Optimized for X12SPT-GC)

Server Name
SYS-210GT-HNC8E

