X12SPT-PT (For SuperServer Only)

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

Up to 2TB Intel® Optane™ Persistent Memory 200 Series, in 8 DIMM slots

1 PCIe 4.0 x16 Left Riser Slot,

1 PCIe 4.0 x16 Right Riser Slot,

1 PCIe 4.0 x8 Proprietary Storage adapter Slot

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

Dual LAN with 10G SFP+

1 VGA port

Optimized Servers

SYS-210TP-HPTRD
SYS-210TP-HPTR

Specifications

Product SKUs
MBD-X12SPT-PT

Physical Stats
Form Factor
Proprietary
Dimension
6.8" x 18.86" (17.27cm x 47.9cm)

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
8 DIMM slots
Up to 2TB Intel® Optane™ Persistent Memory 200 Series, DDR4-3200MHz
Up to 2TB ECC LRDIMM, DDR4-3200MHz; Up to 2TB ECC RDIMM, DDR4-3200MHz
Memory Type
3200/2933/2666 MT/s ECC DDR4 LRDIMM, RDIMM
DIMM Sizes
8GB, 16GB, 32GB, 64GB, 128GB, 256GB
LRDIMM: 32GB, 64GB, 128GB, 256GB
RDIMM: 32GB, 64GB, 128GB, 256GB
Memory Voltage
1.2V
Error Detection
Corrects single-bit errors

On-Board Devices
Chipset
Intel® C621A
SATA
Intel® C621A controller for 6 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI
ASPEED AST2600 BMC
Graphics
1 ASPEED AST2600 BMC port(s)
Network Controllers
Dual LAN with 10G SFP+

Input / Output
SATA
6 SATA3 (6Gbps) port(s)
LAN
2 10G SFP+ LAN ports
USB
2 USB 3.2 Gen1 port(s) (2 rear)
Video Output
1 VGA port(s)
Serial Port
1 COM Port(s) (1 header)
DOM
2 SuperDOM (Disk on Module) port with build power
TPM
1 TPM Header

Expansion Slots
PCIe
1 PCIe 4.0 x16 Left Riser Slot,
1 PCIe 4.0 x16 Right Riser Slot
M.2
M.2 Interface: 2 PCIe 4.0 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
Power Configurations
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
2x 4-pin fan headers (up to 2 fans)

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-9671H	AOM-TPM-9670H
Qty	1	1
Description	SPI Capable Horizontal TPM 1.2 Module	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor