



X12 MP 4-WAY SERIES At-a-Glance

Highest Performance and Flexibility for Enterprise Applications

High-performance
X12 Generation 4-Way
SuperServer®



2U 4-Way System



4U 4-Way System (Coming Soon)

SYS-240P-TNRT

MODULAR COMPONENTS

- In-Memory Computing, VM, & Cloud Application-optimized Solutions
- All-hybrid hot-swappable drive bays—NVMe, SAS, or SATA

BETTER THERMALS

- New Optimized Airflow Designs Support up to 250W TDP processors in 2U and 4U

NEW LEVELS OF COMPUTE PERFORMANCE AND FLEXIBILITY

- Support 3rd generation Intel® Xeon® Scalable (Cooper Lake) processors, 6 UPI per socket
- Large memory footprint for up to 18TB
- Flexible I/O Connection and disaggregation support

DYNAMIC STORAGE

- Every platform supports direct-attached full-hybrid all-NVMe for lower latency with higher throughput and IOPS
 - 2U: up to 24x 2.5" hybrid NVMe/SAS/SATA
 - 4U: up to 24x 3.5" hybrid NVMe/SAS/SATA

FLEXIBLE ON-BOARD NETWORKING

- Up to dual 10GBase-T & dual SFP+ ports
- Also support standard PCI-E network interface card

REDUNDANT POWER SUPPLIES

- AC/DC Titanium (96%) Level

NEW FEATURE!

- Support AIOM / OCP 3.0 NIC



Form Factor

2U and 4U
Rackmount



Processors

Quad 3rd generation
Intel® Xeon® Scalable
(Cooper Lake) processors;
Up to 250W TDP



Memory

48 DIMM slots, up
to 18TB; Support
new Intel® Optane™
Persistent Memory 200
Series (Barlow Pass)



Input/Output

2U: 4 PCI-E 3.0 x16 +
6 PCI-E 3.0 x8 (4 LP)
4U: 6 PCI-E 3.0 x16 +
10 PCI-E 3.0 x8
(1 internal LP)



Networking

1 AIOM (x16) for
flexible networking;
Up to 2x 10GBase-T
and 2x 10G SFP+



Drives

2U: 24x 2.5"
4U: 24x 3.5" + 2x 2.5"
NVMe/SAS/SATA
(SAS via AOC)



Power

2000W/1200W
Redundant Titanium
(96%) Level



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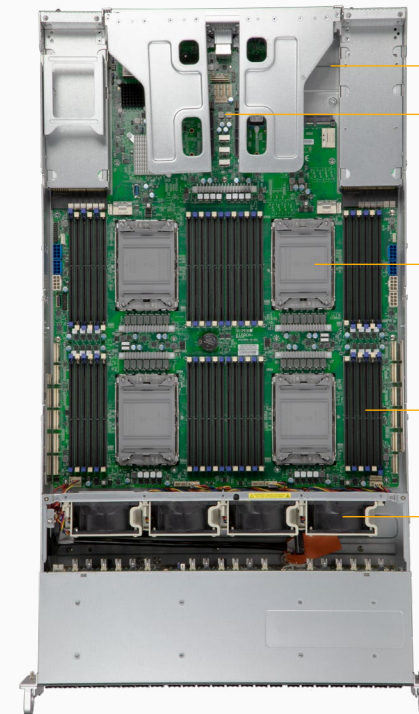
Highest Performance and Flexibility for Enterprise Applications



SYS-240P-TNRT

2U Rackmount

| | |
|---------------|---|
| Processor | <ul style="list-style-type: none">• Quad Socket P+, 3rd Gen Intel® Xeon® Scalable processors (Cooper Lake)• Up to 250W TDP, 6 UPIs, and 28 cores / 56 threads per socket |
| Memory | <ul style="list-style-type: none">• 48 DIMM slots, DDR4-3200MHz;• 2nd Generation Intel® Optane™ Persistent Memory supported |
| Networking | <ul style="list-style-type: none">• 1 AIOM slot for flexible networking up to 100G Ethernet• Onboard 2x 10GBase-T + 2x 10G SFP+ ports (Intel X710-TM4) |
| Storage | <ul style="list-style-type: none">• 24 hot-swap front drive bays, NVMe/SAS/SATA• 4 optional rear 2.5" bays SAS/SATA |
| I/O Expansion | <ul style="list-style-type: none">• Up to 6 single-wide PCI-E 3.0 (4 x16 + 2 x8) slots• Up to 2 double-wide PCI-E 3.0 x16 slots for GPUs |
| Power Supply | <ul style="list-style-type: none">• Redundant 2000W Titanium Level PSUs |
| Serverboard | <ul style="list-style-type: none">• MBD-X12QCH+, 21.3" x 16.8" (proprietary) |
| Chassis | <ul style="list-style-type: none">• CSE-218HTS-R2K08P, 2U rackmount, 3.5" x 19" x 31" (H x W x D) |



AIOM/OCP NIC 3.0 Slot
2x M.2 NVMe/SATA Slots
Up to 22110

3rd Gen Intel® Xeon® Scalable
Processors

48 DIMM Slots DDR4

4x 80x80mm Fans