



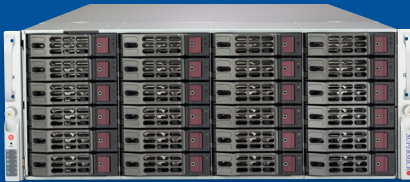
# X12 MP 4-WAY SERIES At-a-Glance

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 24 hybrid NVMe
  - 4U: up to 24 hybrid NVMe

### FLEXIBLE ON-BOARD NETWORKING

- Up to dual 10G Ethernet & dual SFP+
- Also support standard PCI-E network interface card

### REDUNDANT POWER SUPPLIES

- AC/DC Titanium (96%) Level

### NEW FEATURE!

- Support AIOM Open Network Environment 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 10G  
Ethernet 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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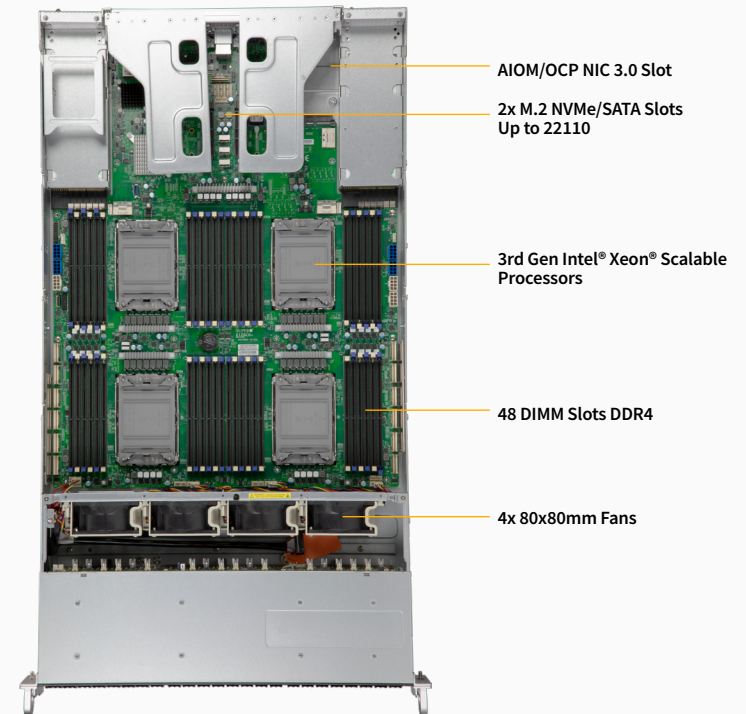
Highest Performance and Flexibility for Enterprise Applications



**SYS-240P-TNRT**

2U Rackmount

<b>Processor</b>	<ul style="list-style-type: none"> <li>• Quad Socket P+, 3rd Gen Intel® Xeon® Scalable processors (Cooper Lake)</li> <li>• Up to 250W TDP, 6 UPIs, and 28 cores / 56 threads per socket</li> </ul>
<b>Memory</b>	<ul style="list-style-type: none"> <li>• 48 DIMM slots, DDR4-3200MHz;</li> <li>• 2nd Generation Intel® Optane™ Persistent Memory supported</li> </ul>
<b>Networking</b>	<ul style="list-style-type: none"> <li>• 1 AIOM slot for flexible networking up to 100G Ethernet</li> <li>• Onboard 2x 10G RJ45 + 2x 10G SFP+ ports (Intel X710-TM4)</li> </ul>
<b>Storage</b>	<ul style="list-style-type: none"> <li>• 24 hot-swap front drive bays, NVMe/SAS/SATA</li> <li>• 4 optional rear 2.5" bays SAS/SATA</li> </ul>
<b>I/O Expansion</b>	<ul style="list-style-type: none"> <li>• Up to 6 single-wide PCI-E 3.0 (4 x16 + 2 x8) slots</li> <li>• Up to 2 double-wide PCI-E 3.0 x16 slots for GPUs`</li> </ul>
<b>Power Supply</b>	<ul style="list-style-type: none"> <li>• Redundant 2000W Titanium Level PSUs</li> </ul>
<b>Serverboard</b>	<ul style="list-style-type: none"> <li>• MBD-X12QCH+, 21.3" x 16.8" (proprietary)</li> </ul>
<b>Chassis</b>	<ul style="list-style-type: none"> <li>• CSE-218HTS-R2K08P, 2U rackmount, 3.5" x 19" x 31" (H x W x D)</li> </ul>



\* Please check with your Supermicro sales representative and website for compatibility and configuration details. Actual product may vary in appearance due to product configuration.  
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