

Supermicro Servers with Intel® Xeon® 6 Processors

Featuring the Upcoming Intel® Xeon® 6900 Processors Series with P-Cores



- ✓ Optimized for Maximum Performance
- ✓ Support for AI, HPC, Media, Data Analytic, and Virtualization Applications
- ✓ Supermicro Direct-to-Chip Liquid Cooling Resulting -Lower Data Center Cost
- √ Support for Next-Generation GPUs







Optimized for Performance Supports the Upcoming Intel® Xeon® 6 Processors



Large-scale Al Training, HPC, Simulation, Virtualization, EDA, Financial Services, 3D/Media



SXM/OAM GPU / GPU-Optimized



SuperBlade®



Hyper



PCIe GPU



FlexTwin

Optimized for Efficiency Supports Intel® Xeon® 6700 Series Processors with E-Cores

Cloud-native, Scale-out, CDN, Unstructured Database



Hyper

CloudDC with DC-MHS



WIO



SuperBlade®



BigTwin®



GrandTwin®



Petascale Storage



Hyper-E



Telco/Edge

What's New in Supermicro X14



New Intel® Xeon® 6
Processors

Workload-optimized & pin compatible between E-core and future P-core CPUs



Up to 288 cores per node Increased computing density



Up to 12ch DDR5-6400, MRDIMM, and CXL 2.0

More memory, faster bandwidth. New capabilities to extend capacity



EDSFF E1.S and E3.S NVMe drives

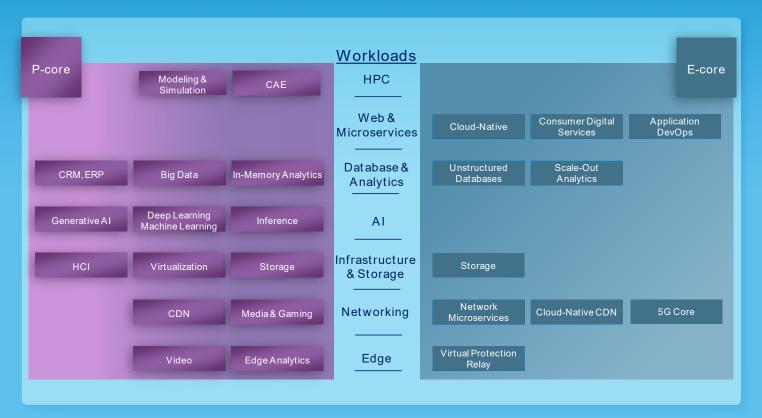
Supported on more families. High throughput, higher density

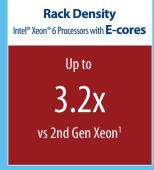


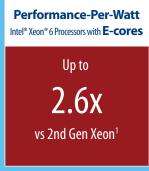
Data Center Modular Hardware System

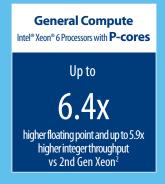
DC-MHS Reduces complexity and simplifies maintenance

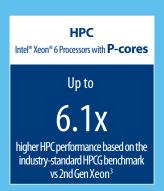
Addressing Unique Workload Requirements











¹ See [7T1] at intel.com/processorclaims: Intel® Xeon® 6. Results may vary.

² See [9G10] at intel.com/processorclaims: Intel® Xeon® 6. Results may vary.

³ See [9H10] at intel.com/processorclaims: Intel® Xeon® 6. Results may vary.

X14 for AI, HPC and Media



10U/8U GPU

Air cooling with up to 8 SXM GPUs



5U PCIe GPU

Flexible and cost-effective platform for AI, HPC, and media



4U GPU

Liquid-cooled platform to provide maximum GPU density



Gaudi® 3

Purpose-built Al training platform



Hyper

Up to 4 double-width GPUs

SuperBlade®

10/5 UP Nodes in 6U



FlexTwin⁻

2U 4-node, 2 E1.S

Key Applications

- · Large-scale Al Training
- LLMs
- Al Inferencing
- · Industrial Automation
- Digital Twins
- VDI
- Simulation/Modelling
- Transcoding
- Cloud Gaming



Optimized dual-processor configurations with dedicated high-speed networking to scale from single system to multi-rack cluster

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Support for GPUs including latest-generation SXM/OAM baseboards and double-width PCIe GPUs



Modular GPU and CPU trays simplify servicing and maintenance

Why Supermicro X14



Most Powerful, Flexible, and Efficient Platform Ever

- Efficiency and performance-optimized architectures
- Systems will support Intel® Xeon® 6 with E-cores and P-cores
- Higher performance-per-watt and performance per core
- Up to 12 channels of memory support



Rack-scale Solutions

- Complete integration services
- Validation up to L12
- · In-house developed liquid cooling



Industry-Leading
Time-to-Deployment

- Leading server production capacity
- Silicon Valley manufacturing facility