



Supermicro Servers with Intel® Xeon® 6 Processors

Featuring the 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*



February 2025



Optimized for Performance Supports the Intel® Xeon® 6 Processors



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



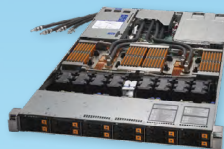
SXM/OAM GPU / GPU-Optimized



PCIe GPU



SuperBlade®



Hyper



FlexTwin

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

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



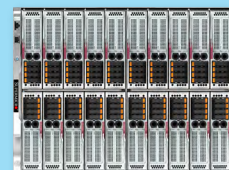
Hyper



CloudDC with DC-MHS



WIO



SuperBlade®



BigTwin®



GrandTwin®



Petascale Storage



Hyper-E

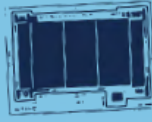


Telco/Edge

What's New in Supermicro X14



New Intel® Xeon® 6 Processors
Workload-optimized & pin compatible between E-core and future P-core CPUs



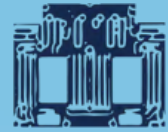
Up to 288 cores per node
Increased computing density



Up to 12ch DDR5-6400, MRDIMM, and CXL 2.0
More memory, faster bandwidth. New capabilities to extend capacity

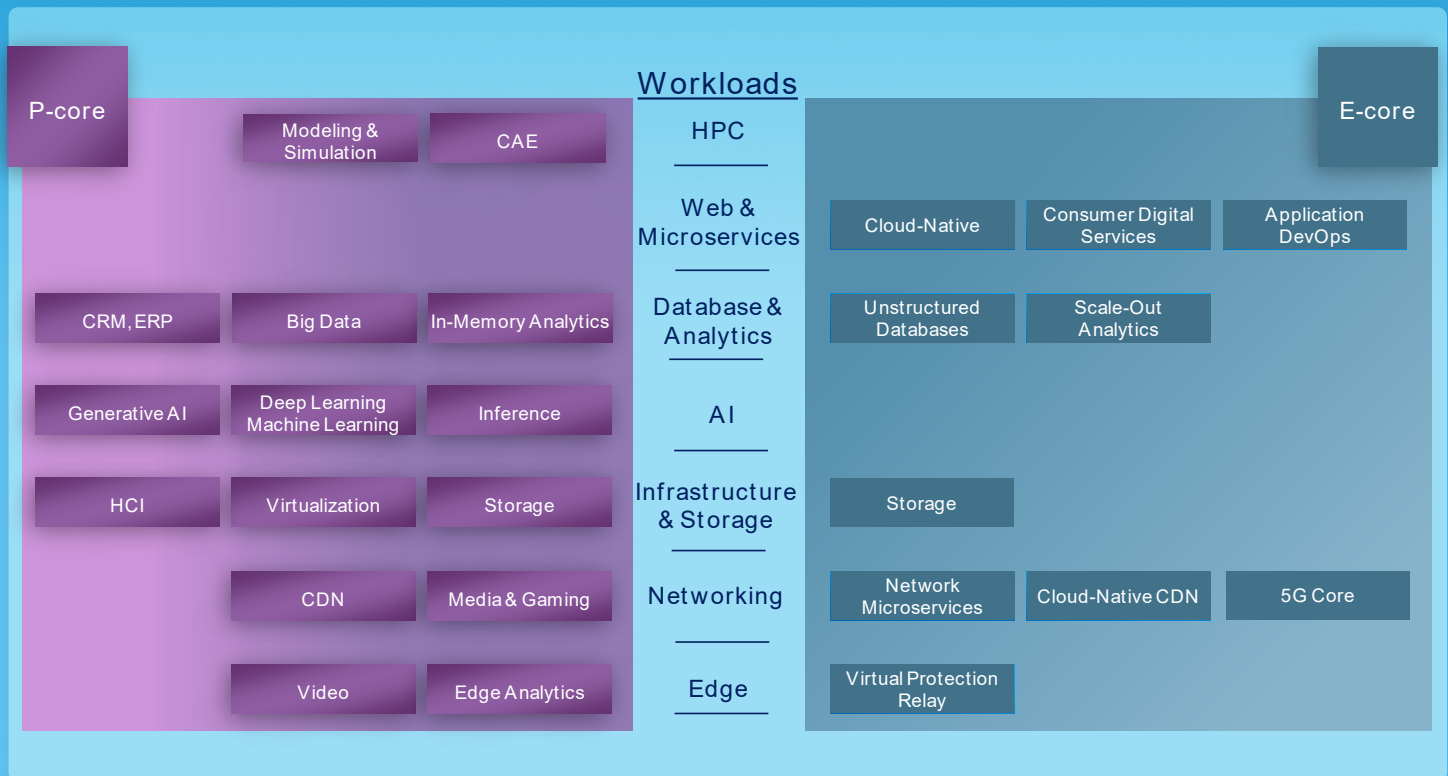


EDSFF E1.S and E3.S NVMe drives
Supported on more families. High throughput, higher density



Data Center Modular Hardware System
DC-MHS Reduces complexity and simplifies maintenance

Addressing Unique Workload Requirements



Rack Density

Intel® Xeon® 6 Processors with **E-cores**

Up to
3.2x
vs 2nd Gen Xeon¹

Performance-Per-Watt

Intel® Xeon® 6 Processors with **E-cores**

Up to
2.6x
vs 2nd Gen Xeon¹

General Compute

Intel® Xeon® 6 Processors with **P-cores**

Up to
6.4x
higher floating point and up to 5.9x
higher integer throughput
vs 2nd Gen Xeon²

HPC

Intel® Xeon® 6 Processors with **P-cores**

Up to
6.1x
higher HPC performance based on the
industry-standard HPCG benchmark
vs 2nd Gen Xeon³

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

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

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

X14 for AI, HPC and Media



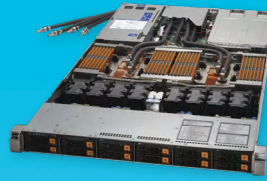
10U/8U GPU

Air cooling with up to 8 SXM GPUs



4U GPU

Liquid-cooled platform to provide maximum GPU density



Hyper

Up to 4 double-width GPUs

FlexTwin™

2U 4-node, 2 E1.S



5U PCIe GPU

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



Gaudi® 3

Purpose-built AI training platform



SuperBlade®

10/5 UP Nodes in 6U

Key Applications

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

1

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

2

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

3

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

For more information, please visit: www.supermicro.com/x14