SUPERMICRO
GOLD SERIES

Best-Selling Server Platforms, Pre-Configured with Key Components for Reduced Lead Times

SUPERMICRO

For Enterprise AI, Compute, Storage, and Intelligent Edge

www.supermicro.com/goldseries

November 2024

TABLE OF CONTENTS

SUPERMICRO GOLD SERIES

Ready-to-Deploy, Pre-Configured Systems

Supermicro Gold Series systems take the guesswork out of enterprise server acquisition, with pre-configured systems ready to ship directly from our warehouses. All Gold Series servers are optimized for specific AI, cloud, storage, and edge workloads, and include CPUs, GPUs (enterprise AI only), memory, storage, networking, and power supplies pre-installed and ready to power-on out of the box.

SUPERMICRO
GOLD
SERIES

ENTERPRISE COMPUTE

Enterprise Data Center

Cloud Data Center

General-Purpose Compute

ENTERPRISE AI

Large-Scale AI

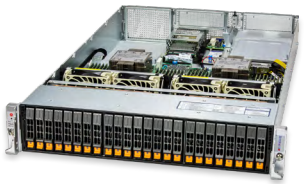
Inferencing & Training

GPU-Optimized Rackmount

ENTERPRISE STORAGE

E1.S All-Flash Storage

U.2 All-Flash Storage



Data Lake and Object Storage

INTELLIGENT EDGE

Edge Box PC

Compact Edge

Fanless Edge

SUPERMICRO GOLD SERIES

Purchase with Confidence

Based on our most popular server products, Supermicro Gold Series systems are pre-configured for specific workloads, complete with CPUs, GPUs (enterprise AI only), memory, storage, networking, and power supplies. These configurations have been pre-tested and are ready to go from day one.

Short Lead Times

Gold Series products are pre-configured with key components, meaning no need to wait for parts and assembly. Gold Series systems are ready to deploy from Supermicro's warehouses, significantly shortening lead times. Select models are even available to ship next business day.

Effortless Implementation

Systems are delivered to the customer with components already installed and pre-tested. Simply unpack, rack, and connect power & networking to get started.

Enterprise Data Center

Maximum performance and flexibility rackmount platform

Benefits & Advantages:

- Single and dual processor configurations
- Compact 1U form factor maximizes compute density per rack unit
- Flexible I/O and storage allows the addition of components as workloads evolve
- Tool-less platform for ease of servicing and maintenance

Form Factor

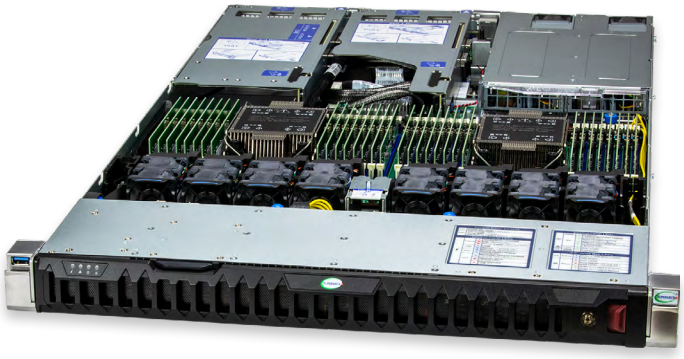
1U Air Cooled

CPU

5th Gen Intel® Xeon®/
AMD EPYC™ 9004 Series

Storage

2.5″ U.2 NVMe



X13 1U DP Hyper
SYS-121H-TNR-G1

Configurations

Applications	Virtualization, Cloud Services	Virtualization, Cloud Services	Virtualization, Cloud Services
Model	AS -1115HS-TNR-G1	SYS-121H-TNR-G1	AS -1125HS-TNR-G1
CPU	1x AMD EPYC™ 9454P (48Core/2.75GHz)	2x Intel® Xeon® 6548Y+ (32Core/2.5GHz)	2x AMD EPYC™ 9654 (96Core/2.4GHz)
Memory	12x 32GB DDR5-5600 (at 4800)	16x 32GB DDR5-5600	24x 96GB DDR5-5600 (in 4800)
M.2		2x 960GB M.2 NVMe SSD	
Storage	1x 960GB U.2 NVMe SSD	2x 3.8TB U.2 NVMe SSD	1x 960GB U.2 NVMe SSD
Networking	1x Dual 10GbE RJ45	1x Dual 10GbE RJ45	1x Dual 10GbE RJ45
Power Supplies	2x 1200W Titanium Level	2x 1200W Titanium Level	2x 1200W Titanium Level

Cloud Data Center

All-in-one rackmount platforms for cloud data centers

SUPERMICRO GOLD SERIES

Benefits & Advantages:

- Efficiency-optimized single-processor configurations
- Tool-less platform for ease of servicing and maintenance
- Pre-configured with M.2 storage for system OS, and flexible support for a range of drive options
- PCIe 5.0 I/O allows for high speed networking

Form Factor

1U Air Cooled
2U Air Cooled

CPU

5th Gen Intel® Xeon®/
AMD EPYC™ 9004 Series

Storage

2.5" U.2 NVMe
3.5" SATA

H13 2U UP CloudDC
AS -2015CS-TNR-G1

Configurations




Applications	Appliance, Cloud Storage	Appliance, Cloud Storage	Database Management	Database Management
Model	SYS-521C-NR-G1	AS -2015CS-TNR-G1	SYS-111C-NR-G1	AS -1115CS-TNR-G1
CPU	1x Intel® Xeon® 4510 (12Core/2.4GHz)	1x AMD EPYC™ 9454P (48Core/2.75GHz)	1x Intel® Xeon® 4510 (12Core/2.4GHz)	1x AMD EPYC™ 9454P (48Core/2.75GHz)
Memory	2x 64GB DDR5-5600	12x 64GB DDR5-5600 (at 4800)	2x 64GB DDR5-5600	12x 32GB DDR5-5600 (at 4800)
M.2	2x 960GB M.2 NVMe SSD	2x 960GB M.2 NVMe SSD	2x 960GB M.2 NVMe SSD	2x 960GB M.2 NVMe SSD
Networking	1x Dual 10GbE RJ45	1x Dual 10GbE RJ45	1x Dual 10GbE RJ45	1x Dual 10GbE RJ45
Power Supplies	2x 1200W Titanium Level	2x 1200W Titanium Level	2x 860W Titanium Level	2x 860W Platinum Level

General-Purpose Compute

Cost-effective, I/O-optimized systems for enterprise applications

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Benefits & Advantages:

- Single processor architecture to balance performance and efficiency
- Flexible expansion bay can accommodate a range of single and double-width cards

Form Factor

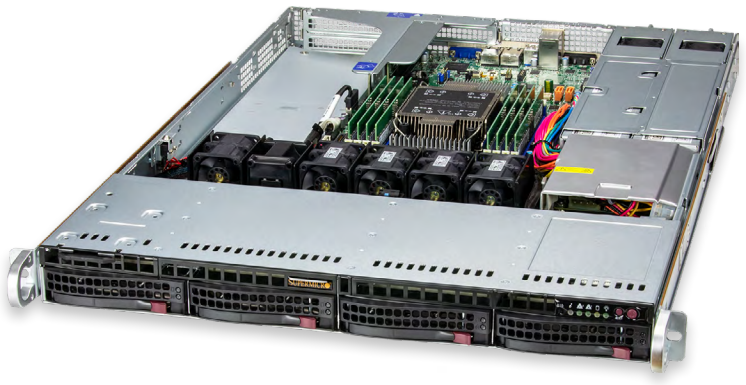
1U Air Cooled

CPU

5th Gen Intel® Xeon®

Storage

3.5″ SATA



X13 1U WIO
SYS-511E-WR-G1

Configurations

Applications	General Compute, Web Hosting
Model	SYS-511E-WR-G1
CPU	1x Intel® Xeon® 4510 (12Core/2.4GHz)
Memory	1x 64GB DDR5-5600
M.2	1x 960GB M.2 NVMe SSD
Networking	1x onboard dual 1GbE RJ45
Power Supplies	2x 860W Titanium Level

Large-Scale AI

GPU-optimized servers for generative AI, LLMs, and AI training

SUPERMICRO GOLD SERIES

Benefits & Advantages:

- High performance NVIDIA or AMD 8-GPU modules provide maximum acceleration for AI
- Up to 1:1 GPU:NIC ratio with 400G networking to create large GPU clusters
- Modular design with separate CPU and GPU trays for simplified deployment and servicing
- Thermally-optimized chassis with air or liquid cooling options

Form Factor

8U Air Cooled
4U Liquid Cooled

GPU

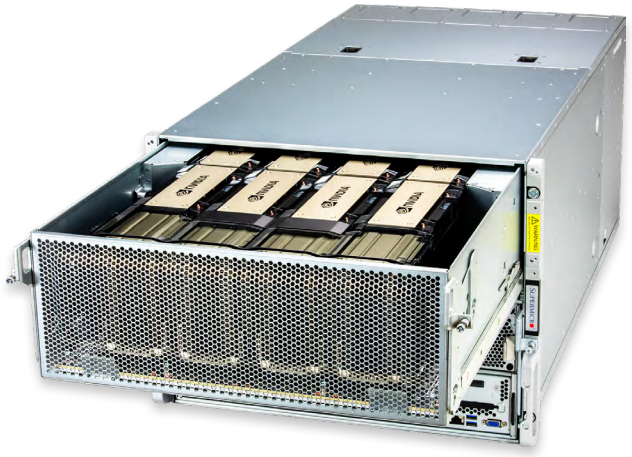
NVIDIA HGX™ H200
8-GPU/AMD
Instinct™ MI300X

CPU

5th Gen Intel® Xeon®/
AMD EPYC™ 9004 Series

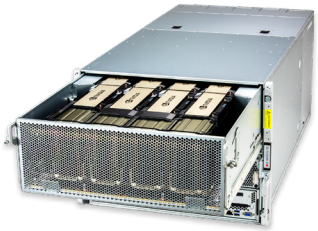
Storage

2.5" U.2 NVMe



X13 8U 8-GPU
SYS-821GE-TNHR-G1

Configurations



Applications	Large Size Enterprise AI Inference & Training	Large Size Enterprise AI Inference & Training	Large Size Enterprise AI Inference & Training	Large Size Enterprise AI Inference & Training
Model	SYS-821GE-TNHR-G1	SYS-421GE-TNHR2-LCC-G1	AS -8125GS-TNHR-G1	AS -8125GS-TNMR2-G1
CPU	2x Intel® Xeon® Platinum 8570 (56Core/2.1GHz)	2x Intel® Xeon® Platinum 8570 (56Core/2.1GHz)	2x AMD EPYC™ 9474F (48Core/3.6GHz)	2x AMD EPYC™ 9654 (96Core/2.4GHz)
GPU	1x NVIDIA HGX™ H200 8-GPU	1x NVIDIA HGX™ H200 8-GPU	1x NVIDIA HGX™ H200 8-GPU	1x AMD Instinct™ MI300X 8-GPU
Memory	32x 96GB DDR5-5600	32x 96GB DDR5-5600	24x 96GB DDR5-5600 (at 4800)	24x 96GB DDR5-5600 (at 4800)
M.2	2x 960GB M.2 NVMe SSD	2x 960GB M.2 NVMe SSD		
Storage			1x 1.9TB U.2 NVMe SSD	1x 1.9TB U.2 NVMe SSD
Networking	8x Single 400G NDR/ETH OSFP 1x Dual 200G NDR200/ETH QSFP112	8x Single 400G NDR/ETH OSFP 1x Dual 200G NDR200/ETH QSFP112	1x Dual 10GbE RJ45 8x 400G NDR/ETH OSFP	1x Dual 10GbE RJ45 4x Single 400GbE QSFP112
Power Supplies	8x 3000W Titanium Level	4x 5250W Titanium Level	6x 3000W Titanium Level	6x 3000W Titanium Level

Enterprise AI Inferencing & Training

Power and flexibility for content creation and AI-enabled office applications

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Benefits & Advantages:

- Up to 13 PCIe 5.0 slots for flexible GPUs, I/O and networking options
- Highly flexible architecture for balanced acceleration, I/O, and storage configurations
- Thermally optimized chassis design to support maximum performance with air cooling

H13 4U 8-GPU PCIe
AS -4125GS-TNRT-G1

Form Factor

5U Air Cooled
4U Air Cooled

GPU

NVIDIA L40S

CPU

5th Gen Intel® Xeon®/
AMD EPYC™ 9004 Series

Storage

2.5" U.2 NVMe

Configurations

Applications	Medium Size Enterprise AI Inference & Training	Large Enterprise AI Inference & Training
Model	AS -4125GS-TNRT-G1	SYS-521GE-TNRT-G1
CPU	2x AMD EPYC™ 9124 (16Core/3GHz)	2x Intel® Xeon® Platinum 8562Y+ (32Core/2.8GHz)
GPU	2x NVIDIA L40S PCIe	8x NVIDIA L40S PCIe
Memory	24x 64GB DDR5-5600 (at 4800)	16x 64GB DDR5-5600
Storage	1x 1.9TB U.2 NVMe SSD	2x 960GB SATA SSD
Networking	1x Onboard Dual 10GbE RJ45	1x Single IB/Ethernet NDR200
Power Supplies	4x 2000W Titanium Power Supplies	4x 2700W Titanium Level

GPU-Optimized Rackmount

Flexible, accelerated compute for Enterprise AI applications

SUPERMICRO GOLD SERIES

Benefits & Advantages:

- Dual processor performance and GPU acceleration a standard 2U rackmount form factor
- Highly flexible modular architecture
- Optimized thermal design to maximize airflow
- Tool-less platform for ease of servicing and maintenance

X13 2U DP Hyper
SYS-221H-TNR

Form Factor

2U Air Cooled

GPU

NVIDIA L40S

CPU

5th Gen Intel® Xeon®/
AMD EPYC™ 9004 Series

Storage

2.5"U.2 NVMe
2.5"/3.5"SATA

Configurations

Applications	Medium Size Enterprise AI Inference & Training	Medium Size Enterprise AI Inference & Training
Model	SYS-221H-TNR-G1	AS -2025HS-TNR-G1
CPU	2x Intel® Xeon® Platinum 8562Y+ (32Core/2.8GHz)	2x AMD EPYC™ 9124 (96Core/2.4GHz)
GPU	2x 2 NVIDIA L40S	2x NVIDIA L40S
Memory	16x 64GB DDR5-5600	24x 96GB DDR5-5600 (at 4800)
Storage	2x 960GB M.2 NVMe SSD	1x 1.9TB U.2 NVMe SSD
Networking	1x Dual 10GbE RJ45	1x Dual 10GbE RJ45
Power Supplies	2x 2000W Titanium Level	2x 2000W Titanium Level

All-Flash Storage

High throughput and density storage for data-intensive applications

SUPERMICRO GOLD SERIES

Benefits & Advantages:

- Unprecedented density design to support up to 1.92PB in 2U with Gen5 NVMe drives
- Direct-attached EDSFF E1.S and E3.S media for the best thermal and I/O performance
- Symmetrical architectures reduce latency by minimizing data paths

Form Factor

1U Air Cooled
2U Air Cooled

CPU

5th Gen Intel® Xeon®

Storage

EDSFF E3.S
EDSFF E1.S
2.5" U.2 NVMe

X13 2U Petascale All-Flash
SSG-221E-NE324R-G1

Configurations

Applications	AI, VDI, CDN, Object, Cloud Computing	AI, VDI, CDN, Object, Cloud Computing	Software Defined Storage
Model	SSG-221E-NE324R-G1	SSG-121E-NES24R-G1	SYS-221H-TN24R-G1
CPU	2x Intel® Xeon® 6548Y+ (32Core/2.5GHz)	2x Intel® Xeon® 6548Y+ (32Core/2.5GHz)	2x Intel® Xeon® 6548Y+ (32Core/2.5GHz)
Memory	4x 64GB DDR5-5600	4x 64GB DDR5-5600	4x 64GB DDR5-5600
M.2	1x 960GB M.2 NVMe SSD	1x 480GB M.2 NVMe SSD	2x 960GB M.2 NVMe SSD
Storage	1x 1.92TB E3.S NVMe SSD	1x 3.8TB E1.S NVMe SSD	4x 3.8TB U.2 NVMe SSD
Networking	1x Quad 1GbE RJ45	1x Quad 25GbE SFP28	1x Quad 25GbE SFP28
Power Supplies	2x 2000W Titanium Level	2x 2000W Titanium Level	2x 1600W Titanium Level

Simply Double Storage

Large-scale storage building blocks in a standard rackmount form factor

SUPERMICRO GOLD SERIES

Benefits & Advantages:

- Unique dual-loading design improves density without impacting serviceability
- Direct access to 24 drives without removing chassis cover
- Pre-configured with RAID storage controller

Form Factor

2U Air Cooled

CPU

5th Gen Intel® Xeon® /
AMD EPYC™ 9004 Series

Storage

3.5" SATA

H13 Simply Double
ASG-2015S-E1CR24H-G1

Configurations

Applications	Big Data, Hadoop	Big Data, Hadoop
Model	SSG-521E-E1CR24H-G1	ASG-2015S-E1CR24H-G1
CPU	1x Intel® Xeon® 4510 (12Core/2.4GHz)	1x AMD EPYC™ 9124 (16Core/3GHz)
Memory	4x 64GB DDR5-5600	4x 64GB DDR5-5600 (at 4800)
M.2	1x 960GB M.2 NVMe SSD	1x 960GB M.2 NVMe SSD
Storage	2x 20TB 3.5" SATA	2x 20TB 3.5" SATA
Networking	1x Dual 10GbE RJ45	1x Dual 10GbE RJ45
Power Supplies	2x 1600W Titanium Level	2x 1600W Titanium Level
Storage Controller	1x SAS Controller - HW RAID via Broadcom® 3908	1x SAS Controller - HW RAID via Broadcom® 3908

Data Lake and Object Storage

Accessibility and efficiency for large-scale data centers

SUPERMICRO GOLD SERIES

Benefits & Advantages:

- Ideal mix of storage density, efficiency, and economy for large-scale object storage and data lake applications
- Front-access drawer architecture allows easy access to drives
- Tool-less drive brackets simplify installation and maintenance

Form Factor

4U Air Cooled

CPU

3rd Gen Intel® Xeon® Scalable

Storage

3.5″ SATA

X12 90-bay Top-Loading
SSG-640SP-E1CR90-G1

Configurations

Applications	Cloud Object Storage	Cloud Object Storage
Model	SSG-640SP-E1CR60-G1	SSG-640SP-E1CR90-G1
CPU	2x Intel® Xeon® 4310 (12Core/2.1GHz)	2x Intel® Xeon® 4310 (12Core/2.1GHz)
Memory	4x 64GB DDR4-3200	4x 64GB DDR4-3200
M.2	1x 960GB M.2 NVMe SSD	1x 960GB M.2 NVMe SSD
Storage	4x 20TB 3.5″ SATA	4x 20TB 3.5″ SATA
Networking	1x Onboard Dual 10GbE RJ45	1x Onboard Dual 10GbE RJ45
Power Supplies	2x 2000W Titanium Level	1x 2600W Titanium Level
Storage Controller	1x SAS Controller - HW RAID via Broadcom® 3916	1x SAS Controller - HW RAID via Broadcom® 3916

Intelligent Edge

Compact and fanless systems for the intelligent edge

Benefits & Advantages:

- Power-efficient compute and AI performance to environments such as retail, manufacturing, healthcare, and public spaces
- Ready to be deployed in remote environments or integrated into existing infrastructure
- Broad selection of PCIe & M.2 expansion slots and I/O ports, including support for AI accelerators at the edge

Form Factor

Compact Box
Mini-1U
Compact Fanless

CPU

5th Gen Intel® Xeon® Scalable /
Intel® Core™ /
Intel® Atom®

Storage

2.5" U.2 NVMe
M.2 NVMe
M.2 SATA

X13 Edge Box PC
SYS-E403-13E-FRN2T-G1

Configurations

Applications	Edge AI Computing	Edge Computing	Edge Computing	Edge Computing
Model	SYS-E403-13E-FRN2T-G1	SYS-E300-13AD-G1	SYS-E200-12A-G1	SYS-E100-13AD-G1
CPU	1x Intel® Xeon® 4510 (12Core/2.4GHz)	1x Intel® Core™ i5-13500E (14Core/2.4GHz)	1x Intel® Atom® C5325 (8Core/2.4GHz)	1x Intel® Core™ i3-1215UE (6C)
Memory	4x 32GB DDR5-5600	1x 32GB DDR4-3200	1x 32GB DDR4-3200	1x 16GB DDR5-4800
M.2	1x 480GB M.2 NVMe SSD	1x 960GB M.2 NVMe SSD	1x 960GB M.2 NVMe SSD	1x 256GB M.2 SATA SSD
Networking	1x Onboard Dual 10GbE RJ45	1x Onboard single 2.5GbE RJ45 1x Onboard single 1GbE RJ45	1x Onboard quad 1GbE RJ45 1x Onboard dual 10GbE SFP+	1x Onboard dual 2.5GbE RJ45
Power Supplies	1x 800W Platinum Level	1x 180W	1x 150W	1x 84W

System Management Software

Leverage Supermicro's management software suite to meet your IT infrastructure challenges

With a comprehensive range of high-end software solutions, Supermicro gives IT administrators the tools to optimize the management of IT systems and increase the utilization of computing and storage infrastructure. Whether you are looking to manage individual systems, optimize server lifecycle processes, or streamline operations for an entire data center, Supermicro has the right software to help you accomplish your goals.

- Obtain valuable insights in your infrastructure
- Monitor the health of servers and critical components
- Get proactive alerts

- Maintain system uptime to meet SLAs
- Early symptom detection to prevent component failure
- Remote management and troubleshooting

- Protect your IT infrastructure from external threats
- Centralized patch and BIOS management
- Extensive security features

System Management Software Suite Bundles

Supermicro's System Management Software Suite consists of a set of specialized applications. These are available in the following bundles.

Suite Bundle	Standard	Basic	Advanced	Enterprise
Description	Covers all core functionality to effectively set up, manage, and monitor your Supermicro systems. These features are available to all Supermicro users.	Extends the core functionality and makes system management easier with additional features, such as remote BIOS management and system updates.	Delivers a broad set of tools to help administrators improve the performance, up-time, and monitoring of Supermicro systems.	Offers an extensive platform to manage large data centers and coordinate automated lifecycle management, software-defined infrastructure, and more in a single pane of glass.
License	No license required	SFT-OOB-LIC	SFT-DCMS-SINGLE	SFT-DCMS-SINGLE + SFT-SDDC-SINGLE
Key Features*	Secure remote console (KVM/ HTML5) System temperature monitoring System power thresholds & alerts Component monitoring Email alerting Remote configuration Offline diagnostics Crash dump License management	Remote BMC management Remote BIOS management Out-of-Band systems checks TPM Provisioning Mount/Unmount ISO images from Samba/HTTP Basic Redfish APIs CIM management SysLog	Remote OS deployment Auto-discovery Power capping RAID monitoring and configuration HDD monitoring Advanced Redfish APIs FW update policy System lock down Crash screen/video capture	3rd Party vendor support POD & Rack-level management SDI Lifecycle management Manage Composable Disaggregated Infrastructure Zero-touch provisioning for network configuration Single pane of glass for data center deployment Rich analytics & telemetry User defined role-based access control

** For detailed information, please check with your Supermicro sales representative or refer to Supermicro website:*
https://www.supermicro.com/en/solutions/management-software

Better

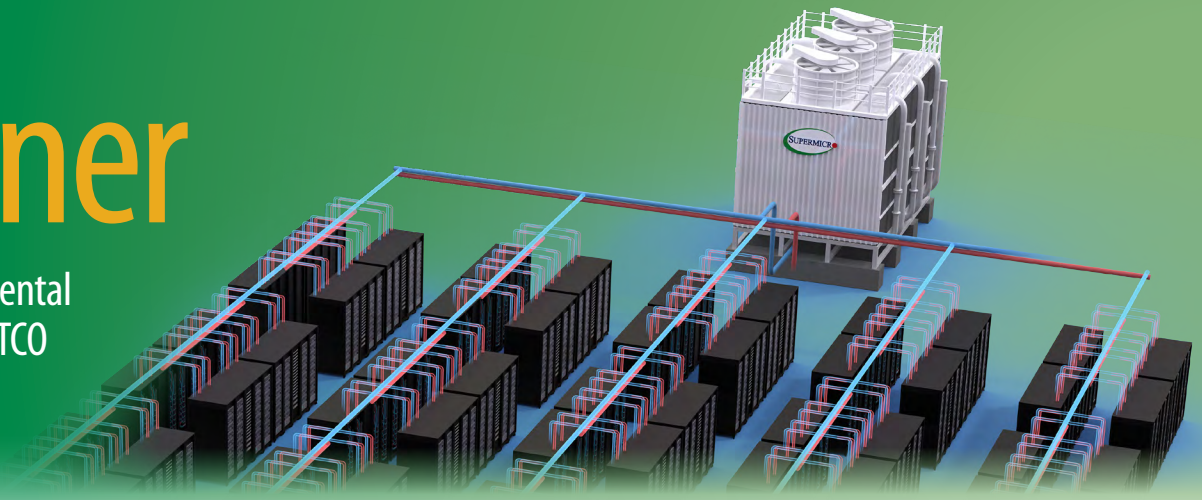
Better Performance
Per Watt and Per Dollar

Faster

First-to-Market Innovation with the
Highest Performance Server Designs

Greener

Reduced Environmental
Impact and Lower TCO



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