

Supermicro Solutions

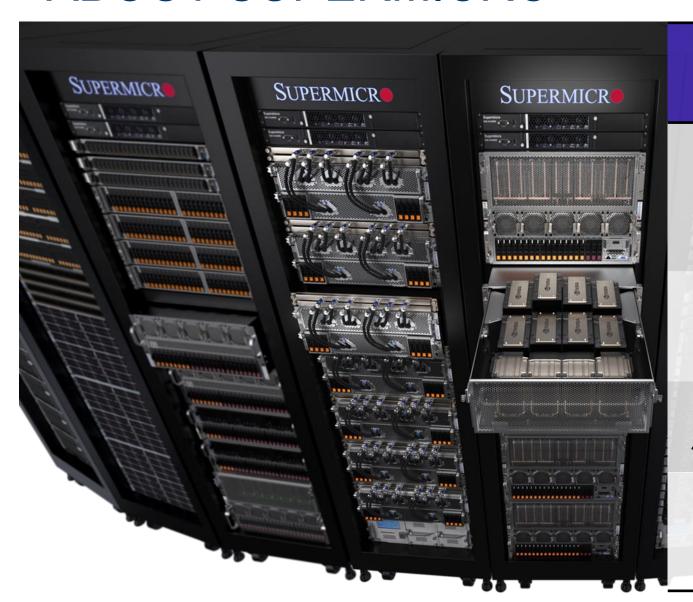
Q1, 2024

Igor Berin Senior BDM EMEA



ABOUT SUPERMICRO





\$14B+ (FY2024 guidance)
Revenue \$7.1B (FY2023)
\$5.2B (FY2022)

Worldwide Presence

6M+ Sq ft. Facilities Worldwide

1. Silicon Valley (HQ),

2. Taiwan,

3. The Netherlands.

4. Malaysia and others

Production

\$18B/yr Production Capacity (CY23)

Top 5 Largest Server System Provider Worldwide (IDC & Gartner 2022), ~1.3M

units annually

Human Resource in 4 Campuses

6000+ headcount Worldwide, ~50% Technical / R&D

Key Growth Matrix **#1** in Generative AI and LLM Platforms 500%+ YoY Growth in Accel. Computing

BUSINESS FOCUS



Building Block Solutions

- Optimized subsystem design, including Motherboard, I/O, Chassis, Power supply, Thermal solution, Firmware, BMC, Security and Management Software, at scale
- Enable industry's broadest Al/Server/Storage/Edge/IoT product portfolio
- Customer time-to-market advantage



Rack-Scale Solutions

- Plug-and-play design enables customers to plug in network & power, and ready to go on-line
- Onsite deployment and service
- Management and security software increase value and competitive advantages



Green Computing

- High efficiency system designs, free air/liquid cooling
- Save up to 40% TCO for many of our partners
- Industry-wide green computing adoption could save \$10B per year of energy cost



Business Automation

- Operation and sales automation to efficiently serve enterprise and any size of business
- Command Center to provide 24/7 security and support

Supermicro 4.0 (Coming Soon)

- Green computing everywhere
- Enhanced system/cloud software/application products
- New features and products for DC/Cloud total solutions
- More details later





GLOBAL PRESENCE







Production scale and cost optimization Economy of Scale and Cost

- Silicon Valley Green Computing Park B20-B23
 - Rack-Scale Integration (Liquid Cooling)
 - Command Center
 - B2B/C Programs
 - Cloud Services
- APAC Science and Tech Center B62
 - Increase 2X-3X APAC capacity in FY24, 25, 26
- Supermicro Malaysia Campus
 - High Volume Subsystem and Rack-Scale Production by Q3 2024

Future Site Plans

- Additional Silicon Valley locations
- Additional Netherlands facility
- Mexico, Texas sites (in plan)









Supermicro CPU Vendors











X13

H13

R12

R13



Industry's Most Comprehensive Portfolio



<u>Hyper-E and Hyper</u> Best-in-Class Performance and Flexibility Rackmount Servers



Ultra and Ultra-E
High Performance & Flexibility
Rackmount Systems for
Enterprise Applications



Cloud DC

All-in-one Rackmount Platforms
for Cloud Data Centers



WIO (UP)
Industry's Widest Variety of
I/O Optimized Servers



Mainstream

Versatile Entry Level and Volume
Servers for Enterprise Applications



<u>BigTwin®</u>
Highly Modular Multi-Node
Systems with Tool-less Design



TwinPro® FatTwin®

Cost-effective 2U Multi-node Advanced Multi-node 4U Twin
Platforms Architecture with 8 or 4 Nodes



Twin High Density x86 Multi-node lodes Server for Enterprise Cloud, HPC



SuperWorkstations
Workstations for High
Performance Workloads



MP 4-Way Server
Highest Performance and Flexibility
for Enterprise Applications



High Density Systems for Doublewidth, Full Length PCIe GPUs

PCIe GPU Servers



High Performance and Flexibility with Advanced Architecture and Thermal Design



SuperStorage®

Top-loading Server Optimized for Field
Serviceability and Field Replacement



IOT/Embedded

High-efficiency, High-performance Compact
Form Factor for 5G and Edge computing



Supermicro Rack Integration Services provides a "one-stop-shop" for your data center needs

Optimized and Lab Tested Components for Superior Performance

Turn-Key Data Center

Accelerate Your Deployment

Professional Rack Level Design

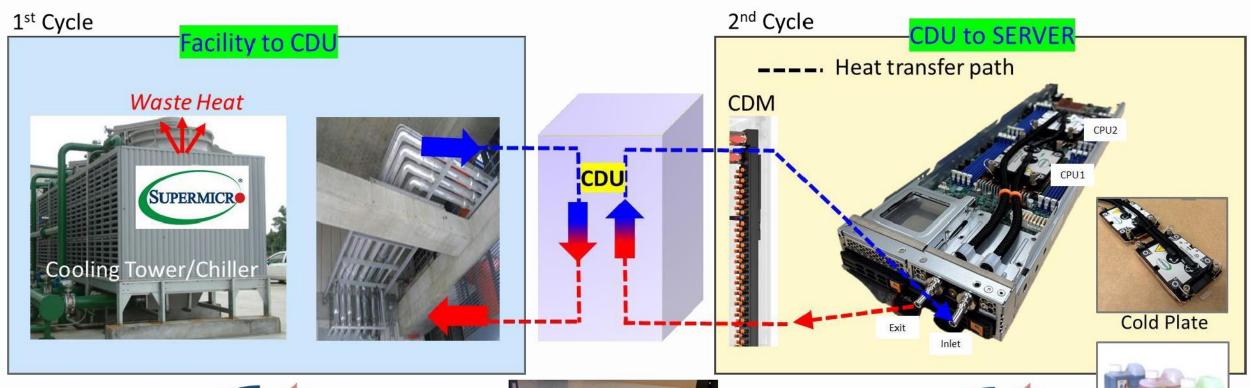
Validation and Benchmarking

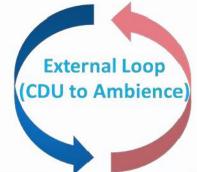


- Server
- Storage
- Network
- Software
- Cabling
- Power and Cooling
- Testing
- Benchmarking
- Full Rack Burn-in

Direct Liquid Cooling (DLC)

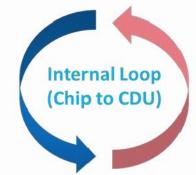








CDU: Cooling Distribution Unit (45C facility water supported)





Typical Industry's Workloads







Accelerate Everything

GPU Optimized Systems to Achieve 5X, 10X,... 100X Performance



Large Scale Al Training Workloads

Large language models, Generative AI training, autonomous driving, robotics



Visualization and Design

Graphical content development and automatic generation, digital twins, 3D collaboration



HPC/AI Workloads

Engineering simulation, scientific research, genomic sequencing, drug discovery



Content Delivery and Virtualization

Content delivery networks (CDNs), video transcoding, live streaming, VDI



Enterprise Al Inference & Training

Al-enabled services/applications, chatbots, business automation



Al Edge

Retail automation, manufacturing/logistics automation, medical diagnosis/predictive care, security, and many more

GPU Platforms



Highest Performance and Flexibility for AL/ML and HPC Applications

HGX Platforms

PCIe Gen5 Platforms

MGX Platforms



8U-8GPU SYS-821GE-TNHR

Integrated Performance, HGX H100 8-GPU



5U-10 GPU SYS-521GE-TNRT

Dual Root , PCle GPU





4U-8GPU SYS-421GE-TNHR2 LCC

Integrated Performance, HGX H100 8-GPU



4U-10 GPU SYS-421GE-TNRT

Dual Root, Direct Connect PCle GPU





5U/4U-4GPU SYS-521GU-TNXR

Scalable Performance, HGX H100 4-GPU



4U-4GPU SYS-741GE-TNRT

Flexible Solution, PCIe GPU



CG1, CG2, C2 Systems

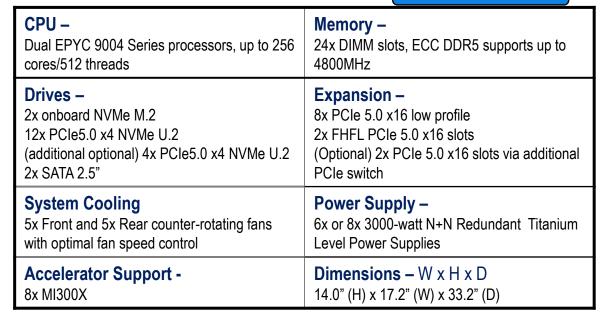
AS -8125GS-TNMR2

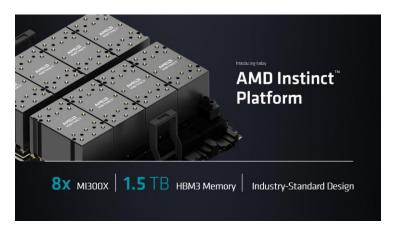
MI300X Solution



Specifications







Recommend System Configuration:

Item#	Description	Q'ty
AS -8125GS-TNMR2	[NR]H13DSG-OM, CSE-GP801TS-D2 for MI300X	1
PSE-GEN9534-0799	Genoa 9534 DP/UP 64C/128T 2.45G 256M 280W SP5	2
MEM-DR564L-CL01-ER48	64GB DDR5-4800 2RX4 (10X4) LP (16Gb) ECC RDIMM	24
HDS-MMN-MTFDKBA960TFR-15	Micron 7450 PRO 960GB NVMe PCIe 4.0 M.2 22x80mm TCG Opal	2
AOC-CX766003N-SQ0	Nvidia 900-9X766-003N-SQ0 PCIe 1-port IB 400GE OSFP Gen5	8
GPU-AMD-MI300X-OAM-0045H	[NR] AMD Instinct MI300X 192GB 8 OAM + UBB	1
AOC-STGS-I2T-O	Std LP 2-port 10G RJ45, Intel X550 (Retail Pack)	1



Scalable Al Clusters

POD

Base Package



The Supermicro Scalable Rack Scale AI Solutions are based on a single rack as a building block, referred to as a Scalable Unit, which can then be expanded to four or eight racks.

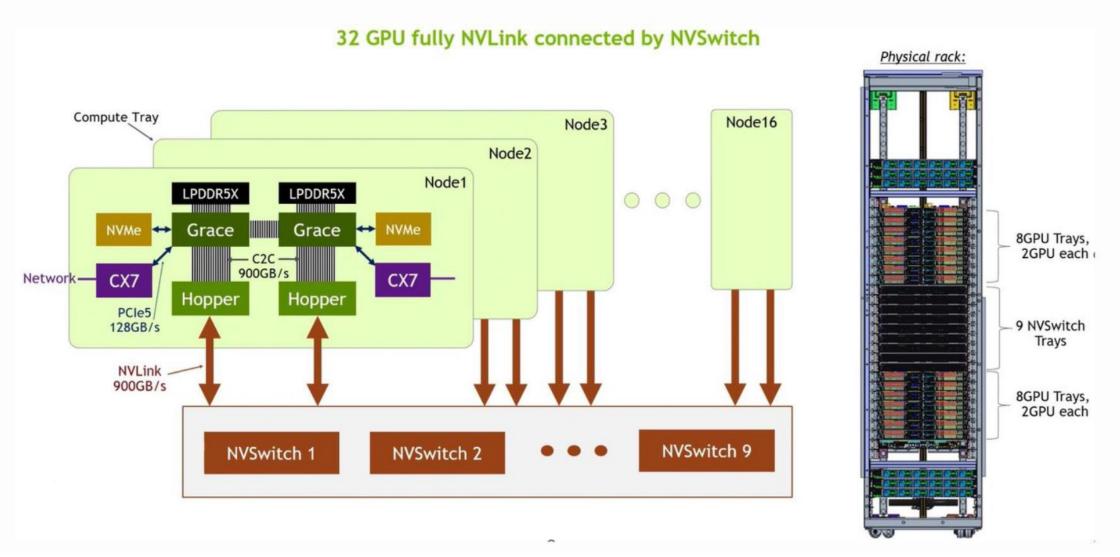


	SU/Base Package SRS-42UGPU-AI-SU1	POD SRS-42UGPU-AI-SU2	SuperPOD SRS-42UGPU-AI-SU3
GPU Server (8U	4x SYS-821GE-TNHR /	16x SYS-821GE-TNHR /	32x SYS-821GE-TNHR /
8GPU)	4x AS -8125GS-TNHR	16x AS -8125GS-TNHR	32x AS -8125GS-TNHR
Total CPUs	8x Intel® Xeon® Platinum	32x Intel® Xeon® Platinum	64x Intel® Xeon® Platinum
	8480+ Processors or 8x AMD EPYC™ 9004 Processors	8480+ Processors or 16x AMD EPYC™ 9004 Processors	8480+ Processors or 64x AMD EPYC [™] 9004 Processors
Total GPUs	32x NVIDIA HGX H100 SXM5	128x NVIDIA HGX H100 SXM5	256x NVIDIA HGX H100 SXM5
Rack	1x 42U (Optional 48U)	4x 42U (Optional 48U)	8x 42U (Optional 48U)
Memory	32TB DDR5 (X13)	128TB DDR5 (X13)	256TB DDR5 (X13)
10.11.01	24TB DDR5 (H13)	96TB DDR5 (H13)	192TB DDR5 (X13)
Estimated Total	Max 45 kW	Max 180 kW	Max 360 kW
Power Per Rack			
Networking	1x 400G 64-port NDR IB: SSE- MQM9700-NS2F	1x 400G 64-port NDR IB: SSE- MQM9700-NS2F	3x 400G 64-port NDR IB: SSE- MQM9700-NS2F
	1x SMC 100G Eth Switch	1x SMC 100G Eth Switch	1x SMC 100G Eth Switch
	(Storage)	(Storage)	(Storage)
	1x SMC 1G/25G MGT Switch	1x SMC 1G/25G MGT Switch	2x SMC 1G/25G MGT Switch

SuperPOD

OBERON GH200 System And Rack Architecture







Virtual Reality, Digital Twins, NVDIA Omniverse

Supermicro OVX Building Block Solution

Rack-scale and a Full Turn-key Solution (L11/L12)

Scalable Unit / Base Package

4x Supermicro OVX nodes (SYS-420GP-TNR)

1x Supermicro Nucleus server (SYS-120U-TNR)

6x 200Gbps 32-port Nvidia Networking SN3700 Ethernet switches,

Non-blocking

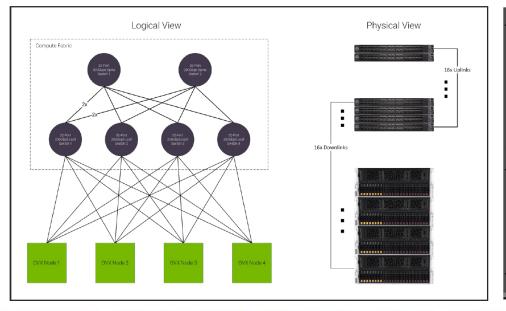
Graphics 32x Nvidia A40 GPUs

Power Up to 18.56.kW

Other Notes

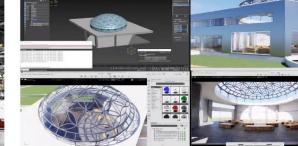
Systems

Scales-out incrementally via 4-nodes after initial switch counts are met to 16 nodes for a Pod









Digital Twins

Simulations and Rendering

Design and Collaboration



DIGITAL TWINS

Effective decision-making Intuitive, insightful, interactive



OMNIVERSE

Effective collaboration
Instant, defined by community,
freedom of choice, easy to
access

creators

Immersive augmented experience



OLTP/OLAP, Data Analytics...







MP SuperServer SYS-681E-TR

Key Applications

In-Memory Database, Virtualization, ERP, CRM, Research Lab/National Lab, Scale -up HPC,

Key Features

- Octa Socket E (LGA-4677) 4th Generation Intel® Xeon® Scalable processors;
- 128 DIMM Slots; Up to 32TB DDR5-4800MHz ECC RDIMM/RDIMM-3DS;
- Optional PCIe configurations up to 24 PCIe slots with support for 12 doublewidth GPU/Accerlator cards;
- 24x 2.5" Hot-swap NVMe/SAS3/SATA3 drive bays; 2x internal M.2 NVMe/SATA; Optional RAID support via storage add-on card;
- 10 heavy duty fans w/ optimal fan speed control;



MP SuperServer SYS-241E-TNRTTP

Key Applications

Artificial Intelligence (AI), Business Intelligence, ERP, CRM, Scientific Virtualization, In-Memory Database, HCI, SAP HANA,

Key Features

- Quad Socket E (LGA-4677) 4th Generation Intel® Xeon® Scalable processors;
- 64 DIMM Slots; Up to 16TB DDR5-4800MHz ECC RDIMM/RDIMM-3DS;
- Optional PCIe configurations up to 8 PCIe slots with support for two doublewidth GPU/Accerlator cards;
- Flexible networking options with 2 AIOM networking slot (OCP NIC 3.0 compatible);
- 24x 2.5" Hot-swap NVMe/SAS3/SATA3 Hybrid Drive bays (Default with 24 SAS3/SATA3 drive bays); 2x internal M.2 NVMe/SATA; Optional RAID support via storage add-on card;
- 6 heavy duty fans w/ optimal fan speed control;

Features

- Supermicro multi-processor systems bring new levels of compute performance and flexibility with support for 4th Gen Intel® Xeon® Scalable processors to support mission-critical enterprise workloads
- 4- and 8-way systems with 4th Gen Intel® Xeon® Scalable processors up to 480 cores
- Large memory footprint with up 64 DIMMs in 2U and 128 DIMMs in 6U up to 32TB of DDR5 Memory
- Next-generation PCle 5.0 for GPU/accelerator and highspeed network interface cards
- Compute and hybrid storage-optimized configurations





HPC: AL, ML, Inference, Simulation,

NVIDIA H100 Tensor Core GPU

Unprecedented performance, scalability, and security for every data center.









X13 SuperBlade[®] X13 U

Ultra High-Density Multi-Node Systems for Enterprise, Cloud, HPC, and Al Applications



Optimized for Performance, Density and Advanced Networking

- Up to 20 nodes in 8U or 10 nodes in 6U with integrated switches
- Single or dual 4th Gen Intel® Xeon® Scalable processors with air-cooled support for up to 350W TDP CPUs
- Up to 32 DIMM slots per node supporting DDR5-4800MHz
- High-performance networking with 400G/200G InfiniBand and 100G/25G Ethernet support
- Up to 4 GPUs per node in a high-density, balanced architecture
- High-performance NVMe support in E1.S, U.2 and M.2 form
 forthere.

X13 BigTwin[®]

Industry-leading Multi-node Architecture



Highly configurable 2U 4-node and 2U 2-node systems optimized for density or storage

- Dual socket architecture featuring 4th Gen Intel® Xeon® Scalable processors
- Optimized thermal design with liquid cooling options
- All-hybrid hot-swappable NVMe/SAS/SATA drive bays Up to 12 drives per node
- Resource Saving Architecture with shared power and cooling for increased efficiency
- Flexible networking with up to 200G Ethernet per node

X13 Universal GPU

Multi-Architecture Flexibility with Future-Proof Open-Standards-Based Design



Ultimate modularity and customization options for AI and HPC environments

- Dual 4th Gen Intel® Xeon® Scalable processors
- Support for the latest industry standards including PCIe
 5.0. DDR5 and Compute Express Link (CXL) 1.1
- Innovative modular architecture designed for flexibility and futureproofing with a range of form factors from 4U to
- Supports next-generation GPUs including NVIDIA H100 and Intel Data Center GPU Max Series
- Optimized thermal capacity and airflow to support CPUs up to 350W and GPUs up to 700W with air cooling
- PCIe 5.0 x16 networking slots and up to 16 U.2 NVMe drive

X13 PCIe GPU

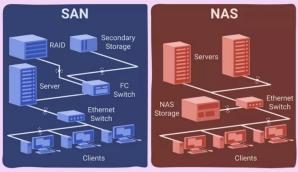
High Performance and Flexibility for AI, 3D Simulation and the Metaverse



Maximum Flexibility with up to 10 PCle GPUs in 4U/5U

- Dual 4th Gen Intel® Xeon® Scalable processors (formerly codenamed Sapphire Rapids)
- Support for the latest industry standards including PCIe 5.0, DDR5 and Compute Express Link (CXL) 1.1
- Supports NVIDIA H100, A100, Intel Data Center GPU Max Series and Intel Data Center GPU Flex Series PCIe GPUs
- Optional 1U expansion for enhanced thermal capacity
- Flexible storage with U.2 NVMe and optional direct-to-CPU storage configurations
- Dual root and direct-connect PCIe configurations available







X13 Hyper

Best-in-class Performance and Flexibility Rackmount Server



Flagship Performance 1U and 2U Rackmount Systems

- Dual socket 4th Gen Intel® Xeon® Scalable processors with support for Intel Xeon CPU Max Series
- Free-air and liquid cooling options for maximum performance and efficiency
- 32 DIMM slots per node supporting DDR5-4800MHz
- NVMe SSD support with up to 24 drives in 2U
- · Optional 2.5"/E1.S SSD hybrid configuration
- Up to 3 PCIe 5.0 slots in 1U or 8 PCI-E 5.0 slots in 2U
- PCIe 5.0 AIOM slots supporting up to 400G networking
- · Tool-less system for simplified maintenance

H13 Hyper Systems

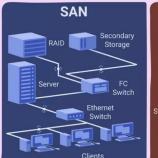
Flexible and High Performance for Enterprise Data Centers

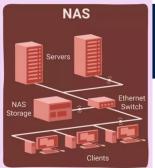


Enterprise-focused platform designed for utmost performance and flexibility

Gain high performance, flexibility, scalability and serviceability to demanding IT environments, and to power mission-critical enterprise workloads.

- Dual AMD EPYC[™] 9004 Series Processors
- Up to 6TB DDR5-4800MHz in 24 DIMMs
- · Flexible NVMe, SAS, and SATA drive options
- Configurable PCIe 5.0 expansion capabilities with CXL 1.1+ memory expansion
- AIOM slots with OCP 3.0 support
- · Titanium-Level efficiency power supplies





All-Flash, Hybrid. Block, Object, File



Hybrid

Storage SuperServer SSG-620P-E1CR24H



Key Features

- Dual socket 3rd Gen Intel® Xeon® Scalable processors, up to 72 Cores Per Node;
- 16 ECC DDR4-3200: LRDIMM/RDIMM;
- Dedicated PCIe 4.0 AIOM slot; 3 x PCIe 4.0 x16 Slots;
- Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN per node;
- 24 3.5" Hot-swap SAS3/SATA3 drives, 4x Rear SATA/NVMe Slots, 2x SATA/NVMe M.2 (form factor: 2280);
- 5x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1600W Redundant Power Supplies Titanium Level (96%);
- HW RAID support via Broadcom® 3908;

Storage SuperServer SSG-640SP-E1CR90



Key Features

- 16 ECC DDR4-3200: LRDIMM/RDIMM:
- 3 x PCIe 4.0 x16 HHHL PCIe slots;
- 90 3.5"/2.5" Hot-swap SAS3/SATA3 drives, 2x Fixed slim SATA SSD, 2x NVMe M.2 (form factor: 2280 and 22110);
- 6 x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 2600W Redundant Power Supplies Titanium Level (96%);
- Drive Controller support via Broadcom® 3916 or 3616; Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN;

X13 Petascale All-Flash

Revolutionary Petascale NVMe for Unprecedented Density and Performance

All-New 1U Storage Architecture

- Dual socket 4th Gen Intel® Xeon® Scalable processors
- 32 DIMM slots per node supporting DDR5-4800MHz
- 2x AIOM supporting PCle 5.0 x16 and up to 2x PCle 5.0 x16 slots
- Up to 24 EDSFF Short (E1.S) or 16 E3.S high-performance drives in a 1U chassis
- E1.S (9.5mm and 15mm) or E3.S (7.5mm) form factor support with E3.S 2T x8 CXL support on selected configurations







Object

Parallel File

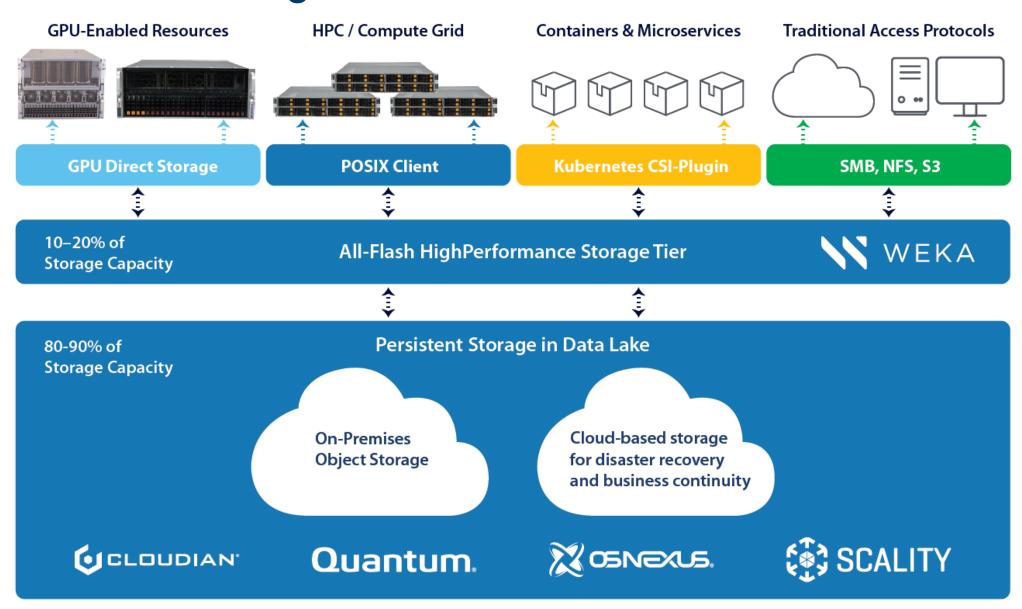
Object/File





Tiered Storage Reference Architecture





Tiered Storage in Al POD



Application Tier All-Flash Tier **Object Tier** Data Migrates to/from Object Tier With **Data Center Connects Through** Application Access Storage Tier With Supermicro 400 Gb/s InfiniBand 25 or 100 GbE Supermicro 1/10/25 GbE SSE-C4632 or SSE-SN3700 Switches Supermicro SSE-G3748R-SMIS Switches SSE-MQM9700-NS2F Switches 1/10/25 GbE 400 Gb/s InfiniBand 25 or 100 GbE Supermicro 8U GPU Servers Supermicro Petascale Storage Servers Supermicro SuperStorage Servers AS -8125GS-TNHR ASG-1115S-NE316R SSG-640SP-DE1CR90



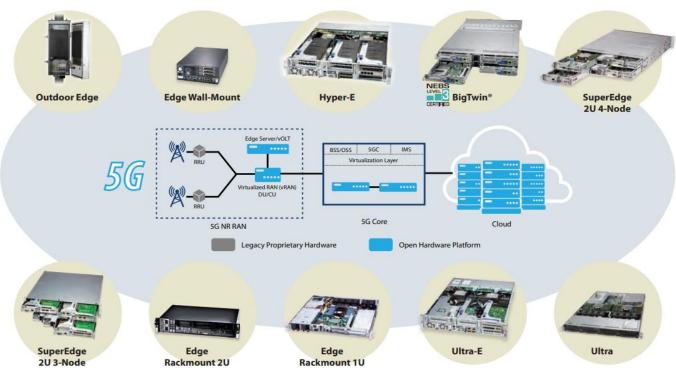
Optimized Platform for 5G/Telco Applications



Outdoor Edge

SYS-E403-9D-16C-IPD2

SYS-E403-9D-14CN-IPD2 SYS-E403-9D-16C-IP







MAVENIR Rakuten Symphony

SYS-211E-FRN2T

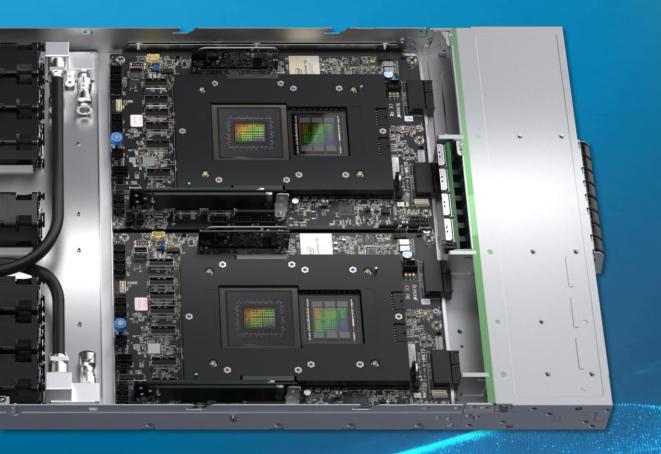
SYS-211E-FRDN2T

Edge Rackmount 2U Edge Rackmount 1U

SYS-111E-FWTR

SYS-111E-FDWTR





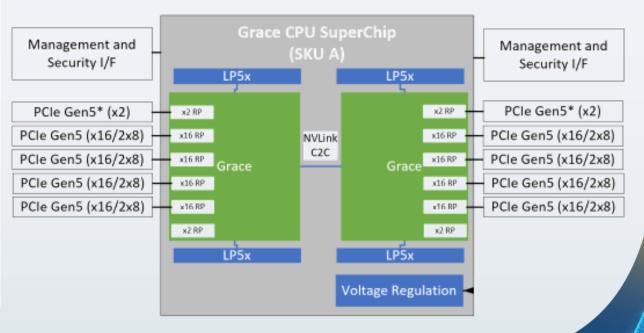
Supermicro NVIDIA MGX Systems Product Overview

NVIDIA Grace CPU Superchip

- 2x Grace CPUs with attached LPDDR5X on mezzanine module
- 900GB/s NVLink Chip-to-Chip on the module
 - No off-the-module NVLink support

	Feature
Core count	144 Arm Neoverse V2 Cores with 4x128b SVE2
L1 cache	64KB i-cache + 64KB d-cache
L2 cache	1MB per core
L3 cache	234MB
LPDDR5X size	240GB, 480GB and 960GB on-module memory options
Memory bandwidth	Up to 1TB/s
NVIDIA NVLink-C2C bandwidth	900GB/s
PCle links	Up to 8x PCIe Gen5 x16 option to bifurcate
Module thermal design power (TDP)	500W TDP with memory
Form factor	Superchip module
Thermal solution	Air cooled or liquid cooled





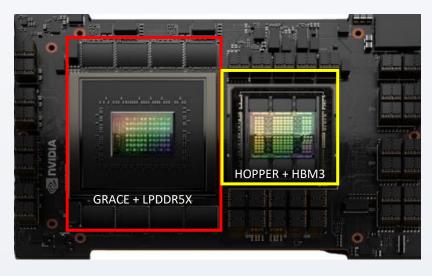
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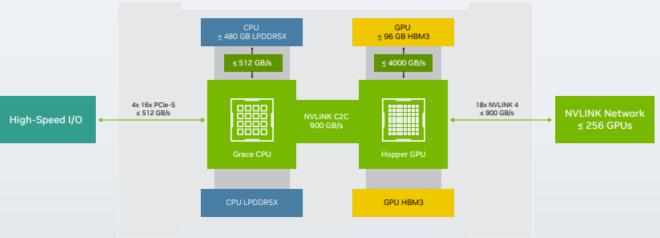
NVIDIA GH200 Grace Hopper Superchip

- One Grace CPU with integrated LPDDR5X and one H100 Tensor Core GPU (Hopper) on mezzanine module
- Fast NVLink-C2C interface between CPU and GPU

Grace CPU	Feature
CPU core count	72 Arm Neoverse V2 cores
L1 cache	64KB i-cache + 64KB d-cache
L2 cache	1MB per core
L3 cache	117MB
LPDDR5X size	Up to 480GB
Memory bandwidth	Up to 512GB/s
PCIe links	Up to 4x PCle x16 (Gen5)

PCIe links	Up to 4x PCIe x16 (Gen5)
Hopper H100 GPU	Feature
FP64	34 teraFLOPS
FP64 Tensor Core	67 teraFLOPS
FP32	67 teraFLOPS
TF32 Tensor Core	989 teraFLOPS* 494 teraFLOPS
BFLOAT16 Tensor Core	1,979 teraFLOPS* 990 teraFLOPS
FP16 Tensor Core	1,979 teraFLOPS* 990 teraFLOPS
FP8 Tensor Core	3,958 teraFLOPS* 1,979 teraFLOPS
INT8 Tensor Core	3,958 TOPS* 1,979 TOPS
HBM3 size	Up to 96GB
Memory bandwidth	Up to 4TB/s
NVIDIA NVLink-C2C CPU-to-GPU bandwidth	900 GB/s bidirectional
Module thermal design power (TDP)	Programmable from 450W to 1000W (CPU + GPU + memory)
Form factor	Superchip module
Thermal solution	Air cooled or liquid cooled





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1U Grace Hopper Superchip Systems







1U with Grace Hopper	1U 1	with	Grace	Hop	per
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1U with Grace Hopper LC

1U 2-Node with Grace Hopper

Model	ARS-111GL-NHR	ARS-111GL-NHR-LCC	ARS-111GL-DNHR-LCC
CPU	72-core Grace Arm Neoverse V2 CPU + H100 Tensor Core GPU in a single chip	72-core Grace Arm Neoverse V2 CPU + H100 Tensor Core GPU in a single chip	72-core Grace Arm Neoverse V2 CPU + H100 Tensor Core GPU in a single chip per node
Cooling	Air-cooled	Liquid-cooled	Liquid-cooled
GPU Support	NVIDIA H100 Tensor Core GPU with 96GB of HBM3	NVIDIA H100 Tensor Core GPU with 96GB of HBM3	NVIDIA H100 Tensor Core GPU with 96GB of HBM3 per node
Memory	CPU: 480G integrated LPDDR5X with ECC GPU: 96GB HBM3	CPU: 480G integrated LPDDR5X with ECC GPU: 96GB HBM3	CPU: 480G integrated LPDDR5X with ECC per node GPU: 96GB HBM3 per node
Networking	3x PCle 5.0 x16 slots supporting NVIDIA BlueField-3 or ConnectX-7	3x PCIe 5.0 x16 slots supporting NVIDIA BlueField-3 or ConnectX-7	2x PCIe 5.0 x16 slots supporting NVIDIA BlueField-3 or ConnectX-7
Storage	8x Hot-swap E1.S drives and 2x M.2 NVMe drives	8x Hot-swap E1.S drives and 2x M.2 NVMe drives	4x Hot-swap E1.S drives and 2x M.2 NVMe drives per node
Power Supplies	2x 2000W Titanium Level	2x 2000W Titanium Level	2x 2700W Titanium Level

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1U/2U Grace CPU Superchip and x86 Systems







1U 2-Node with Grace CPU	2U with Grace CPU

Model	ARS-121L-DNR	ARS-221GL-NR	SYS-221GE-NR
CPU	144-core Grace Arm Neoverse V2 CPU in a single chip per node (total of 288 cores)	144-core Grace Arm Neoverse V2 CPU in a single chip	4 th or 5 th Generation Intel® Xeon® Scalable processors (up to 60-core per socket)
Cooling	Air-cooled	Air-cooled	Air-cooled
GPU Support	Please contact our sales for possible configurations	Up to 4 double-width GPUs including NVIDIA H100 PCIe, H100 NVL, L40S.	Up to 4 double-width GPUs including NVIDIA H100 PCIe, H100 NVL, L40S
Memory	Up to 480GB of integrated LPDDR5X with ECC and up to 1TB/s of memory bandwidth per node	Up to 480GB of integrated LPDDR5X with ECC and up to 1TB/s of memory bandwidth per node	Up to 2TB, 32x DIMM slots, ECC DDR5-4800 DIMM
Networking	3x PCIe 5.0 x16 slots supporting NVIDIA BlueField-3 or ConnectX-7	3x PCIe 5.0 x16 slots supporting NVIDIA BlueField-3 or ConnectX-7	2x PCIe 5.0 x16 slots supporting NVIDIA BlueField-3 or ConnectX-7
Storage	4x Hot-swap E1.S drives and 2x M.2 NVMe drives per node	8x Hot-swap E1.S drives and 2x M.2 NVMe drives	8x Hot-swap E1.S drives and 2x M.2 NVMe drives
Power Supplies	2x 2700W Titanium Level	3x 2000W Titanium Level	3x 2000W Titanium Level

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System Management Software



Standard

Covers all core functionality to effectively set up, manage, and monitor your Supermicro systems. These features are available to all Supermicro users.

License

Description

Key features⁽¹⁾

No license required

- Secure remote console (KVM/HTML5)
- System temperature monitoring
- System power thresholds & alerts
- Component monitoring
- Email alerting
- Remote configuration
- Offline diagnostics
- Crash dump
- License management

Basic

Extends the core functionality and makes system management easier with additional features, such as remote BIOS management and system updates.

SFT-OOB-LIC

- 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

Advanced

Delivers a broad set of tools to help administrators improve the performance, up-time, and monitoring of Supermicro systems.

SFT-DCMS-SINGLE

- 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

Enterprise

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.

SFT-DCMS-SINGLE + SFT-SDDC-SINGLE

- 3rd Party vendor support
- POD & Rack-level management
- · SDI Lifecycle management
- Manage Composable
 Dissagregated Infrastructure
- Zero-touch provisioning for network configuration
- Single pane of glass for data center deployment
- Rich analytics & telemetry
- User defined role-based access control



Global Service & Support



Service-Level Options

• 4-Hour Onsite Response

A Supermicro authorized representative will arrive at the customer's site to begin hardware maintenance service within 4 hours after the service request has been received, the issue has been identified, and spare parts have been received onsite.

Next Business Day Response

Service is available 8 hours per day within standard business hours, Monday to Friday, excluding local holidays. A Supermicro authorized representative will arrive at the customer's site to begin hardware maintenance service the next day after the service request has been received, the issue has been identified, and defective parts have been determined and shipped.

• Integration Service

Supermicro defines the requirements for the installation, upgrade or migration. We perform the planning, identify service requirements, create and execute the project plan, conduct verification testing, training, and provide technical documentation.

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- Supermicro is:
 - Unmatched Revolutionary Design Enabling You Fantastic Flexibility Configuring Your SyS!
 - Best PUE
 - Best TCO
 - Fantastic robustness and reliability (less than 0,3% failure rate)
 - Best price/performance Ratio
 - L12 Rack Design and Implementation
 - Ahead of Competition with new chipsets generations

Don't trust the above?? Try us!!!

Local and remote POC welcome!



https://www.supermicro.com/en



My Contact Details:

Igor Berin Senior BDM EMEA

Tel: +48 728 233 205

E-mail: <u>igorb@supermicro.com</u>



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