Accelerate Innovation

X14 Server Solutions

Supporting Intel® Xeon® 6 processors

June 2024, Ver. 2
INTRODUCING
SUPERMICRO X14 GENERATION

The Supermicro X14 Advantage

The latest generation of proven platforms designed for maximum performance, efficiency and flexibility for AI, Cloud, Storage and 5G/Edge workloads

Supermicro Total IT Solutions

- Industry’s broadest portfolio of systems based on Intel® Xeon® 6 processors
- Rack Scale plug-and-play service to deliver complete, validated solutions within weeks, not months
- Production capacity of up to 5,000 racks per month worldwide
- Made in the USA program with manufacturing in San Jose headquarters
- Industry standard compliance for hardware and silicon Root of Trust (RoT) and cryptographical attestation of components throughout the entire supply chain
- Supermicro liquid cooling including CPU/GPU cold plate, Cooling Distribution Unit and Cooling Distribution Manifolds for a complete integrated solution

Optimized, Open Architectures

- More than 15 families of systems optimized for AI, Cloud, 5G Edge and more
- Modular Building Block architecture enables customization for specific workloads and configurations
- Resource saving architecture to reduce materials and energy usage
- Enhanced thermal capacity to support next-gen CPUs, GPUs and other components
- Flexible networking with Advanced I/O Modules (AIOM) up to 400G per card
- High ambient temperature operation up to 40°C with liquid cooling options
- Support for open and industry standards including OCP 3.0, DC-MHS, OAM, ORV2, OSF, Open BMC and EDSFF

8U 8-GPU System
4U Liquid-cooled 8-GPU
5U 8-10 PCIe GPU
ACCELERATE EVERYTHING WITH INTEL® XEON® 6 PROCESSORS

What’s New in Supermicro X14

New Intel® Xeon® 6 Processors
Higher core-count for greater compute density
Faster memory bandwidth. New capabilities to extend capacity
EDSFF E1.5 and E3.5 NVMe support
Data Center Modular Hardware System

Intel® Xeon® 6700 series processors with E-cores

- Maximum performance-per-watt and core density for cloud, networking, analytics and scale-out workloads
- Up to 144 cores (144 threads) per CPU
- Up to 330W per CPU
- 1 or 2 socket servers
- 8 channel memory
- 6400 MT/s DDR5
- Up to 88 PCIe 5.0 lanes

Performance-Per-Watt

<table>
<thead>
<tr>
<th>Rack Density</th>
<th>up to 2.5x</th>
<th>vs 4th Gen Intel® Xeon® 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Performance-Per-Watt</td>
<td>up to 2.4x</td>
<td>vs 4th Gen Intel® Xeon® 1</td>
</tr>
</tbody>
</table>

Supermicro X14 systems will also support Intel® Xeon® 6700 with P-cores in Q1’25”

- Maximum performance-per-core for AI, HPC, storage and Edge workloads
- Up to 86 cores (172 threads) per CPU
- Up to 350W per CPU
- 1, 2, 4 or 8 socket servers
- 8 channel memory
- 6400 MT/s DDR5
- 8000 MT/s MCR DIMM
- Up to 88 PCIe 5.0 lanes with up to 136 lanes for 1S designs

1 Compared to 4th Gen Intel Xeon Scalable Processors. Based on architectural projections as of August 21, 2023 relative to prior generation. Your results may vary.
Open, Modular, Standards-Based Universal GPU System

Supermicro X14 Universal GPU systems feature an open, modular, standards-based architecture designed for maximum flexibility. Support for multiple industry-standard GPUs allows organizations to take advantage of different GPU configurations based on workload while only deploying a single server architecture, reducing infrastructure complexity and simplifying future upgrades.

Designed for serviceability with hot-swappable, tool-less components in a modular construction, the chassis are optimized for thermal capacity, supporting the latest generation of GPUs up to 700W TDP.

Key Applications

- Large-scale AI Training
- Large Language Models
- AI/Deep Learning Training
- Industrial Automation
- Conversational AI
- Drug Discovery
- Climate and Weather Modeling
- Finance & Economics
Flexible Platform

Optimized for the next generation of HPC, action-oriented AI, 3D simulation, and advanced graphic design and rendering, Supermicro X14 PCIe accelerated solutions empower the creation of 3D worlds, digital twins, 3D simulation models and the Metaverse.

These systems support next-generation accelerators based on the industry-standard PCIe form factor, with up to 10 double-width GPUs in a 5U chassis. Additional networking slots provide connectivity of up to 400Gb/s to create high performance clusters of up to 32 nodes, while optional direct-to-chip liquid cooling is available to deliver superior efficiency for the most demanding performance.

Key Applications

- AI Model Training
- Digital Twins
- 3D Simulation
- Real-time Ray-tracing
- Animation and Modeling
- Cloud Gaming
- Design & Visualization
- 3D Rendering
- VDI
- Media/Video Streaming
- Diagnostic Imaging

X14 PCIe GPU
Flexible configurations for AI training, Media, 3D Design, and Simulation

Up to double-width 10 PCIe GPUs
Up to 13 PCIe 5.0 slots
Support for DDR5-6400
Up to 16 NVMe drives + 8 SATA drives
Direct-to-chip CPU and GPU liquid cooling options

Up to 10 Double-width PCIe GPUs in 5U
16 2.5" NVMe + 8 2.5" SATA

SYS-522GA-NRT
(Coming Soon!)
Future-proof, Resource-saving Architecture

Supermicro’s high-performance, density-optimized, and energy-efficient SuperBlade® can significantly reduce initial capital and operational expenses for many organizations. SuperBlade® utilizes shared, redundant components, including power supplies, cooling fans, CMMs, Ethernet, and InfiniBand switches.

The X14 8U SuperBlade® architecture maximizes rack density, with up to 120 dual-processor servers in a 48 rack. Cable reduction can be up to 95% when compared to rackmount servers. Optional direct liquid cooling (DLC) can support servers with the highest power CPUs to achieve the lowest PUE with the best TCO.
X14 6U SuperBlade®
Memory-Optimized Multi-Node Architecture for EDA and Enterprise Applications

100 servers per rack (Up to 28,800 CPU cores)
6U enclosure with 10 single-wide or 5 double-wide servers, sharing power supplies, cooling fans, CMMs, and Ethernet switches
1 or 2 Intel® Xeon® 6700 series processors with E-cores - up to 288 cores per node
Support for DDR5-6400 with 32 DIMMs in DP or 16 DIMMs in UP
Up to 10 NVMe SSDs
Up to 4 GPUs or network cards
400G IB or Ethernet (PCIe 5.0 x16 slots), and up to 4x 25G Ethernet switches with 100G uplinks
Reusable enclosure, power supplies, cooling fans, CMMs, and switches for future generation servers
96% efficiency, (N+N / N+1) redundant power supplies
Direct liquid cooling option

Future-proof, Resource-saving Architecture
Supermicro’s X14 6U high-performance, density-optimized, and energy-efficient SuperBlade® can significantly reduce initial capital and operational expenses for many organizations. SuperBlade® utilizes shared, redundant components, including power supplies, cooling fans, chassis management modules (CMMs), switches, or pass-thru modules to deliver the most cost-effective, green computing solutions.

The X14 6U SuperBlade® architecture maximizes rack density, with up to 100 servers per rack. Optional direct liquid cooling (DLC) can support servers with the highest power CPUs to achieve the lowest PUE with the best TCO.

Supermicro’s X14 6U SuperBlade® architecture is optimized for performance with maximum capacity (32 DIMMs – DP, 16 DIMMs - UP). 20 GPUs can be installed in 6U enclosures for AI/ML acceleration, graphics, and 3D rendering. 10 NVMe SSDs per server is perfect for vSAN, big data analytics, and financial services.

Key Applications
- AI/ML Inferencing
- Hybrid and Private Cloud
- Cloud Computing
- Big Data Analytics
- Financial Services
- HPC
- CDN
- vSAN
- EDA
Flagship Performance and Flexibility for Enterprise Data Centers

The new X14 Hyper series brings next-generation performance to Supermicro’s range of rackmount servers, built to take on the most demanding workloads in the most proven 1U and 2U form factors. Our modular designed allows customization on storage, expansion slot, network and power supplies to meet the applications requirements. Gracefully balances compute, storage and expansion in a tool-less rackmount design for optimization as well as flexibility and serviceability.

The X14 Hyper lineup includes the best-selling dual-socket configurations designed for maximum power and compute density, as well as new single-socket architectures to provide balanced performance with only one processor.
X14 Hyper-E
Maximum Performance and Flexibility for Edge Data Centers

Dual Intel® Xeon® 6700 series processors with E-cores

High-density processing power in compact form factors suitable for Edge deployments

Support for DDR5-6400 with up to 32 DIMMs

Flexible I/O with up to 2 AIOM PCIe 5.0 and 8 PCIe 5.0 slots

Both AC and DC power configurations available with redundant power supplies

Enhanced operating temperatures from -5ºC to 55ºC (CPU TDP-dependent)

Front or rear I/O configurations available

Data Center Performance at the Edge
Hyper-E delivers the performance and flexibility of Supermicro’s flagship rackmount server family in a compact form factor optimized for telco and micro data center deployments.

A mid-depth chassis and front I/O makes it easier to incorporate Hyper-E into existing edge and telco infrastructure, while carrier grade (NEBS Level 3) design and optional DC power options further enhance flexibility in non-traditional data center environments.

Storage and expansion configurations can be adjusted depending on the application, while maintenance-friendly design innovations eliminate the need for tools when servicing the system to simplify rollout and installation.

Key Applications
- 5G Core and Edge
- Telco Micro Data Center
Highly Modular Multi-Node Systems with Tool-Less Design
Supermicro X14 BigTwin® systems provide superior performance and serviceability with dual Intel® Xeon® 6 processors (Formerly codenamed Sierra Forest and Granite Rapids) per node and hot-swappable tool-less design.

Optimized for density (2U4N) or storage (2U2N), BigTwin® architectures can be more cost effective than standard 1U servers thanks to shared power and cooling while also increasing compute density and reducing overall TCO. The modular mid-plane design provides NVMe Gen 5 storage controller options and a new riser card design can support up to 4 M.2 drives for boot/OS or metadata/caching.

Key Applications
- HCI
- HPC
- CDN
- Hybrid Cloud Container-as-a-Service
- Cloud Computing
- Big Data Analytics
- Back-up and Recovery
- Scale-Out Storage
X14 GrandTwin®
Multi-Node Architecture Optimized for Single-Processor Performance

Single socket per node supporting Intel® Xeon® 6700 series processors with E-cores
Support for DDR5-6400 with up to 16 DIMMs per node
Flexible PCIe, storage, and AIOM configurations to suit a wide range of application requirements
Front I/O configuration to simplify cold-aisle servicing
Optional support for EDSSF E1.S NVMe drives

Key Applications
• MEC (Multi-Access Edge Computing)
• HPC
• Cloud Gaming
• Multi-Purpose CDN
• High-Availability Cache Cluster
• Telco Edge Cloud
• EDA (Electronic Design Automation)
• Mission-Critical Web Applications

Highly Configurable Single Processor Systems with Front or Rear I/O

The GrandTwin® architecture is an all-new architecture purpose-built for single-processor performance. The design maximizes compute, memory and efficiency to deliver maximum density. Powered by Intel® Xeon® 6 processors, GrandTwin’s flexible modular design can be easily adapted for a wide range of applications, with the ability to add or remove components as required, reducing cost.

For front configurations, all I/O and node trays are fully accessible from the cold aisle, simplifying installation and servicing in space-constrained environments. Flexible storage and networking options are available via front AIOM modules, allowing countless custom configurations.
X14 CLOUDDC WITH DC-MHS
All-in-one Rackmount Platform for Cloud Data Centers Designed to OCP DC-MHS Specifications

Single and dual socket configurations supporting Intel® Xeon® 6700 series processors with E-cores

Support for DDR5-6400 with up to 32 DIMMs per node

Modular OCP DC-MHS support to reduce complexity and simplify servicing in large-scale data center deployments

U.2 NVMe/SAS/SATA drives with all-hybrid options

Support for PCIe 5.0 and CXL 2.0

High-density, Tool-less Mechanical Design for Rapid Cloud Deployment and Easy Maintenance

The new Supermicro X14 CloudDC with DC-MHS delivers ultimate flexibility on I/O and storage to support a range of cloud and data center workloads. The systems are designed to meet OCP DC-MHS specifications, improving modularity and flexibility for large-scale enterprises and cloud service providers to simplify data center management with DC-SCM modules. X14 CloudDC also features tool-less brackets, hot-swap drive trays and redundant power supplies that ensure a rapid deployment and more efficient maintenance in data centers. High-efficiency Titanium Level redundant power supplies provide resiliency and low carbon footprint. Rich security features include Intel® SGX, TPM 2.0, signed firmware, Silicon Root of Trust, Secure Boot, System Erase, Runtime FW protection, FIPS Compliance and Trusted Execution Environment.

Key Applications
- Private/Public/Hybrid Cloud
- Cloud Computing
- Big Data Analytics
- AI Inference
- Machine Learning
- Network Appliance
- Virtualization
- Open BMC
- ODM Custom Design for CSP/Hyperscalers
X14 UP WIO
Industry’s Widest Variety of I/O Optimized Servers

Single Intel® Xeon® 6700 series processors with E-cores
Support for DDR5-6400 with up to 8 DIMMs
U.2 NVMe/SAS/SATA drives with up to 8 hybrid drives
Support for PCIe 5.0 and CXL 2.0
Native SATA support on motherboard; no additional controller card required
Supports double-width GPU/FPGA cards in both 1U and 2U

Wide-Ranging Flexibility for any Enterprise Workload

Supermicro WIO systems offer a wide range of I/O options to deliver truly optimized systems for specific requirements. Users can optimize the storage and networking alternatives to accelerate performance, increase efficiency and find the perfect fit for their applications. In addition to enabling customizable configurations and optimization for multiple application requirements, Supermicro WIO SuperServers® also provide attractive cost advantages and investment protection.

Key Applications
- Enterprise Applications
- Networking Appliance
- Firewall/Security Appliances
- General Purpose Computing
- Cloud Computing
- Media Entertainment
Dual Intel Xeon 6700 series processors with E-cores
Support for DDR5-6400 with up to 32 DIMMs
Up to 32 EDSFF E3.S drives in 2U or 16 E3.S drives in 1U
Up to 1.92PB of NVMe storage in 2U or 960TB in 1U
Up to 8 Type 3 CXL modules
Symmetrical architecture to reduce latency
OCP Data Center Modular Hardware System (DC-MHS) support

**Key Applications**
- Data Intensive HPC/AI
- Private & Hybrid Cloud
- Software-Defined Storage
- NVMe Over Fabrics Solution
- In-Memory Computing
- Composable Infrastructure Platform

The AI revolution is using and generating massive amounts of data and these workloads require application-specific architectures at every stage of the data pipeline. Supermicro’s flagship X14 Petascale storage platform offers the best architecture to drive large-scale, data-intensive AI and HPC workloads, offering industry-leading memory bandwidth using up to eight Type 3 CXL modules. With up to 32 E3.S drives in 2U and unprecedented end-to-end PCIe Gen5 performance, new X14 Petascale systems can help organizations to reach their performance and capacity goals with greater rack density than ever before.

The new Intel Xeon 6 processors support the latest PCIe Gen 5 standard to handle the high throughput of a large number of NVMe drives and get the maximum performance out of the new Gen 5 E3.S drives, as well as CXL 2.0 on all device types to maximize memory capacity for in-memory database applications.
Optimized Designs for 5G, Edge Computing and Emerging IoT Systems

Supermicro provides innovative and first-to-market technologies that are the building blocks for today’s embedded computing platforms. Rapid growth in embedded markets and open standards are driving the need for higher levels of product integration and optimization through virtualization, AI inferencing, network connectivity, remote management, mobile communication, expanded I/O, and device-to-device communications using space and power efficient configurations.

Supermicro’s family of high-performance embedded products are optimized for a wide range of applications and solutions. Supermicro offers many flexible and customized solutions for critical OEM projects, as well as advanced designs for stringent environments, firmware customization, BOM enhancements, and a wide range of legacy IO support.
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<thead>
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<td>Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144/C/144T; Up to 108MB Cache per CPU</td>
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<tr>
<td>Serverboard</td>
<td>SUPER® X14DBM-SP</td>
<td>SUPER® X14DBM-SP</td>
<td>SUPER® X14SBH</td>
<td>SUPER® X14SBH</td>
</tr>
<tr>
<td>Chipset</td>
<td>System on Chip</td>
<td>System on Chip</td>
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</tr>
<tr>
<td>System Memory (Max.)</td>
<td>Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DD5 RDIMM Max Memory (2DPC): Up to 2TB 5200MT/s ECC DD5 RDIMM</td>
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</tr>
<tr>
<td>Expansion Slots</td>
<td>4 PCIe 5.0 x16 FH/10.5” double-width slot(s) • 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) • 1 PCIe 5.0 x8 AIOM slot(s) (OCP 3.0 compatible)</td>
<td>4 PCIe 5.0 x16 FH/10.5” double-width slot(s) • 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</td>
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</tr>
<tr>
<td>Connectivity</td>
<td>Via AIOM</td>
<td>Via AIOM</td>
<td>Via AIOM</td>
<td>Via AIOM</td>
</tr>
<tr>
<td>VGA/Audio</td>
<td>1 VGA port(s)</td>
<td>1 VGA port(s)</td>
<td>1 VGA port(s)</td>
<td>1 VGA port(s)</td>
</tr>
<tr>
<td>Management</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SOD); TAS; Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
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<td>Drive Bays</td>
<td>Default: Total 8 bay(s) 8 front hot-swap 2.5” NVMe*/SAS*/SATA* drive bay(s) Option A: Total 12 bay(s) 12 front hot-swap 2.5” NVMe*/SAS*/SATA* drive bay(s) *Optional M2: 2 M.2 PCIe x5/2 NVMe slot(s) (M-key 2280/22110)</td>
<td>Default: Total 8 bay(s) 8 front hot-swap 2.5” NVMe*/SAS*/SATA* drive bay(s) Option A: Total 12 bay(s) 16 front hot-swap 2.5” NVMe*/SAS*/SATA* drive bay(s) Option B: Total 24 bay(s) 24 front hot-swap 2.5” NVMe*/SAS*/SATA* drive bay(s) *Optional M2: 2 M.2 PCIe x5/2 NVMe slot(s) (M-key 2280/22110)</td>
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<tr>
<td>Power Supply</td>
<td>2x 1200W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
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<tr>
<td>Cooling System</td>
<td>8 counter-rotating 40x40x56mm Fan(s)</td>
<td>4 counter-rotating 80x80x38mm Fan(s)</td>
<td>8 counter-rotating 40x40x56mm Fan(s)</td>
<td>6 counter-rotating 60x60x56mm Fan(s)</td>
</tr>
<tr>
<td>Form Factor</td>
<td>1U Rackmount</td>
<td>1U Rackmount</td>
<td>1U Rackmount</td>
<td>2U Rackmount</td>
</tr>
</tbody>
</table>
### Intel® Xeon® 6 6700 Series Processors Supported

**NEW!**

**MODEL** | **SYS-222HE-TN** | **SYS-222HE-FTN**  
--- | --- | ---  
Processor Support | Dual Socket E2 (LGA-4710) series processors with E-cores Up to 144C/288T, Up to 108MB Cache per CPU | Dual Socket E2 (LGA-4710) series processors with E-cores Up to 144C/288T, Up to 108MB Cache per CPU  
Serverboard | SUPER® X14DBM-SP | SUPER® X14DBM-SP  
Chipset | System on Chip | System on Chip  
System Memory (Max.) | Slot Count: 32 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM | Slot Count: 32 DIMM slots/16 Channels Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM  
Expansion Slots | Option A*  
3 PCIe 5.0 x16 (in x16) FH/10.5"L double-width slot(s)  
1 PCIe 5.0 x16 (in x16) FHHL slot(s)  
2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)  
Option B*  
6 PCIe 5.0 x8 (in x16) FH/10.5"L slot(s)  
2 PCIe 5.0 x8 (in x16) FHHL slot(s)  
2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) | Option A*  
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2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)  
Option B*  
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2 PCIe 5.0 x8 (in x16) FHHL slot(s)  
2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)  
Connectivity | Via AIOM | Via AIOM  
VGA/Audio | 1 VGA port(s) | 1 VGA port(s)  
Management | SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new) | SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new)  
Drive Bays | Default: Total 6 bay(s)  
6 front hot-swap 2.5" NVMe®/SAS®/SATA® drive bay(s)  
Option A: Total 8 bay(s)  
6 front hot-swap 2.5" NVMe®/SAS®/SATA® drive bay(s)  
4 rear hot-swap 2.5" NVMe® drive bay(s)  
Option B: Total 10 bay(s)  
6 front hot-swap 2.5" NVMe®/SAS®/SATA® drive bay(s)  
4 rear hot-swap 2.5" NVMe® drive bay(s)  
Optional M2: 2 M.2 PCIe 5.0 x2 NVMe slot(s) (M-key 2280/22110/25110) | Default: Total 6 bay(s)  
6 rear hot-swap 2.5" NVMe®/SAS®/SATA® drive bay(s)  
Option A: Total 8 bay(s)  
6 rear hot-swap 2.5" NVMe®/SAS®/SATA® drive bay(s)  
4 front hot-swap 2.5" NVMe® drive bay(s)  
Option B: Total 10 bay(s)  
6 rear hot-swap 2.5" NVMe®/SAS®/SATA® drive bay(s)  
4 front hot-swap 2.5" NVMe® drive bay(s)  
Optional M2: 2 M.2 PCIe 5.0 x2 NVMe slot(s) (M-key 2280/22110/25110)  
Power Supply | 2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies | 2x 2000W Redundant (1 + 1) Titanium (certification pending) Level (96%) Hot-plug power supplies  
Cooling System | 6 counter-rotating 60x60x56mm Fan(s) | 6 counter-rotating 60x60x56mm Fan(s)  
Form Factor | 2U Rackmount | 2U Rackmount
## X14 BigTwin®

### 2U 2-Node BigTwin

<table>
<thead>
<tr>
<th>Model</th>
<th>SYS-622BT-DNC8R</th>
<th>SYS-222BT-DNR</th>
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<tr>
<td><strong>Expansion Slots</strong></td>
<td>Default 2 PCIe 5.0 x8 LP slot(s) 1 PCIe 5.0 x16 LP slot(s) 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</td>
<td>Default 2 PCIe 5.0 x8 LP slot(s) 1 PCIe 5.0 x16 LP slot(s) 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</td>
</tr>
<tr>
<td><strong>Connectivity</strong></td>
<td>Via AIOM</td>
<td>Via AIOM</td>
</tr>
<tr>
<td><strong>VGA/Audio</strong></td>
<td>1 VGA port(s)</td>
<td>1 VGA port(s)</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
</tr>
<tr>
<td><strong>Drive Bays</strong></td>
<td>Default: Total 6 bay(s) 2 front hot-swap 3.5” PCIe 5.0 NVMe/SAS drive bay(s) 4 front hot-swap 3.5” PCIe 4.0 NVMe/SAS drive bay(s) M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110)(default); VROC required for RAID)</td>
<td>Default: Total 12 bay(s) 12 front hot-swap 2.5” PCIe 5.0 NVMe drive bay(s) M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110)(default); VROC required for RAID)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
<td>2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
</tr>
<tr>
<td><strong>Cooling System</strong></td>
<td>4x 14.9K RPM Heavy Duty 80x80x38mm Fan(s)</td>
<td>4x 16.5K RPM Heavy Duty 80x80x38mm Fan(s)</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>2U Rackmount</td>
<td>2U Rackmount</td>
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</table>

**NEW!** Intel® Xeon® 6 Processors Supported
## X14 BigTwin

**Intel® Xeon® 6 Processors Supported**

### Product Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>SYS-622BT-HNC8R</th>
<th>SYS-222BT-HNC8R</th>
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<tbody>
<tr>
<td><strong>Processor Support</strong></td>
<td>Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores</td>
<td>Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores</td>
</tr>
<tr>
<td><strong>Serverboard</strong></td>
<td>SUPER® X14DBT-B</td>
<td>SUPER® X14DBT-B</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>System on Chip</td>
<td>System on Chip</td>
</tr>
<tr>
<td><strong>System Memory (Max.)</strong></td>
<td>Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM</td>
<td>Slot Count: 16 DIMM slots Max Memory (1DPC): 4TB 6400MT/s ECC DDR5 RDIMM</td>
</tr>
<tr>
<td><strong>Expansion Slots</strong></td>
<td>Default 2 PCIe 5.0 x16 LP slot(s) 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</td>
<td>Default 2 PCIe 5.0 x16 LP slot(s) 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</td>
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<tr>
<td><strong>Connectivity</strong></td>
<td>Via AIOM</td>
<td>Via AIOM</td>
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<tr>
<td><strong>VGA/Audio</strong></td>
<td>1 VGA port(s)</td>
<td>1 VGA port(s)</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
</tr>
<tr>
<td><strong>Drive Bays</strong></td>
<td>Default: Total 3 bay(s) 2 front hot-swap 3.5&quot; PCIe 5.0 NVMe/SAS drive bay(s) 1 front hot-swap 3.5&quot; PCIe 4.0 NVMe/SAS drive bay(s) M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110; VROC required for RAID)</td>
<td>Default: Total 6 bay(s) 2 front hot-swap 2.5&quot; PCIe 5.0 NVMe/SAS drive bay(s) 4 front hot-swap 2.5&quot; PCIe 4.0 NVMe/SAS drive bay(s) M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110(default); VROC required for RAID)</td>
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<tr>
<td><strong>Power Supply</strong></td>
<td>2x 3600W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
<td>2x 3600W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
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<tr>
<td><strong>Cooling System</strong></td>
<td>4x 14.9K RPM Heavy Duty 80x80x38mm Fan(s)</td>
<td>4x 16K RPM Counter Rotating 80x80x56mm Fan(s)</td>
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<tr>
<td><strong>Form Factor</strong></td>
<td>2U Rackmount</td>
<td>2U Rackmount</td>
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# X14 BiTwin®

**NEW!**

**Intel® Xeon® 6 Processors Supported**

## X14 Server Solutions - June 2024

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SYS-222BT-HNC9R</th>
<th>SYS-222BT-HNR</th>
<th>SYS-222BT-HER</th>
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<tbody>
<tr>
<td><strong>Processor Support</strong></td>
<td>Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores</td>
<td>Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores</td>
<td>Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores</td>
</tr>
<tr>
<td><strong>Serverboard</strong></td>
<td>SUPER® X14DBT-B</td>
<td>SUPER® X14DBT-B</td>
<td>SUPER® X14DBT-B</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>System on Chip</td>
<td>System on Chip</td>
<td>System on Chip</td>
</tr>
<tr>
<td><strong>System Memory (Max.)</strong></td>
<td>Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DR5 RDIIMM</td>
<td>Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DR5 RDIIMM</td>
<td>Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DR5 RDIIMM</td>
</tr>
<tr>
<td><strong>Expansion Slots</strong></td>
<td>Default 1 PCIe 5.0 x16 LP slot(s) 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</td>
<td>Default 2 PCIe 5.0 x16 LP slot(s) 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</td>
<td>Default 2 PCIe 5.0 x16 LP slot(s) 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</td>
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<tr>
<td><strong>Connectivity</strong></td>
<td>Via AIOM</td>
<td>Via AIOM</td>
<td>Via AIOM</td>
</tr>
<tr>
<td><strong>VGA/Audio</strong></td>
<td>1 VGA port(s)</td>
<td>1 VGA port(s)</td>
<td>1 VGA port(s)</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
</tr>
<tr>
<td><strong>Drive Bays</strong></td>
<td>Default: Total 6 bay(s) 2 front hot-swap 2.5” PCIe 5.0 NVMe/SAS drive bay(s) 4 front hot-swap 2.5” PCIe 4.0 NVMe/SAS drive bay(s) M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110(defualt); VROC required for RAID)</td>
<td>Default: Total 6 bay(s) 6 front hot-swap 2.5” PCIe 5.0 NVMe drive bay(s) M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110(defualt); VROC required for RAID)</td>
<td>Default: Total 8 bay(s) 8 front hot-swap E3.5 1T PCIe 5.0 NVMe drive bay(s) M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110(defualt); VROC required for RAID)</td>
</tr>
<tr>
<td><strong>Power Supply</strong></td>
<td>2x 3600W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
<td>2x 3600W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
<td>2x 3600W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
</tr>
<tr>
<td><strong>Cooling System</strong></td>
<td>4x 16K RPM Counter Rotating 80x80x56mm Fan(s)</td>
<td>4x 16K RPM Counter Rotating 80x80x56mm Fan(s)</td>
<td>4x 16K RPM Counter Rotating 80x80x56mm Fan(s)</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>2U Rackmount</td>
<td>2U Rackmount</td>
<td>2U Rackmount</td>
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</table>

**Specifications**

- **Cooling System**: 4x 16K RPM Counter Rotating 80x80x56mm Fan(s)
- **Power Supply**: 2x 3600W Redundant (1 + 1) Titanium Level (96%) power supplies
- **System Memory**: Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 6400MT/s ECC DR5 RDIIMM
- **Drive Bays**: Default: Total 6 bay(s) 2 front hot-swap 2.5” PCIe 5.0 NVMe/SAS drive bay(s) 4 front hot-swap 2.5” PCIe 4.0 NVMe/SAS drive bay(s) M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110(defualt); VROC required for RAID)
- **Management**: SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)
## X14 GRANDTWIN®

**NEW!**

Intel® Xeon® 6 Processors Supported

### 2U 4-Node GrandTwin® (Front I/O)

### 2U 4-Node GrandTwin® (Rear I/O)

### Product Specifications

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<thead>
<tr>
<th>Feature</th>
<th>SYS-212GT-HNF</th>
<th>SYS-212GT-HNR</th>
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<tbody>
<tr>
<td><strong>Processor Support</strong></td>
<td>Single Socket E2 (LGA-4710)</td>
<td>Single Socket E2 (LGA-4710)</td>
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<tr>
<td></td>
<td>Intel® Xeon® 6 6700 series processors with E-cores</td>
<td>Intel® Xeon® 6 6700 series processors with E-cores</td>
</tr>
<tr>
<td></td>
<td>Up to 144C/144T; Up to 108MB Cache</td>
<td>Up to 144C/144T; Up to 108MB Cache</td>
</tr>
<tr>
<td><strong>Serverboard</strong></td>
<td>SUPER® X14SBT-G</td>
<td>SUPER® X14SBT-G</td>
</tr>
<tr>
<td><strong>Chipset</strong></td>
<td>System on Chip</td>
<td>System on Chip</td>
</tr>
<tr>
<td><strong>System Memory</strong></td>
<td>Slot Count: 16 DIMM slots/2 Channels</td>
<td>Slot Count: 16 DIMM slots/2 Channels</td>
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<tr>
<td></td>
<td>Max Memory (2DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM</td>
<td>Max Memory (2DPC): Up to 4TB 6400MT/s ECC DDR5 RDIMM</td>
</tr>
<tr>
<td><strong>Expansion Slots</strong></td>
<td>Default* 1 PCIe 5.0 x16 LP slot(s) *Optional</td>
<td>Default 2 PCIe 5.0 x16 (in x16) AIOM slot(s) (OCP 3.0 compatible)</td>
</tr>
<tr>
<td><strong>VGA/Audio</strong></td>
<td>1 VGA port(s)</td>
<td>1 VGA port(s)</td>
</tr>
<tr>
<td><strong>Management</strong></td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); KVM with dedicated LAN; IPMI 2.0; TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); KVM with dedicated LAN; IPMI 2.0; TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
</tr>
<tr>
<td></td>
<td>Default: Total 8 bay(s)</td>
<td>Default: Total 6 bay(s)</td>
</tr>
<tr>
<td></td>
<td>8 front hot-swap E1.5 PCIe 5.0 x4 NVMe* drive bay(s)</td>
<td>6 front hot-swap 2.5&quot; PCIe 5.0 x4 NVMe drive bay(s)</td>
</tr>
<tr>
<td></td>
<td>Option A: Total 4 bay(s)</td>
<td>Option A: Total 4 bay(s)</td>
</tr>
<tr>
<td></td>
<td>4 front hot-swap E1.5 PCIe 5.0 x4 NVMe* drive bay(s)</td>
<td>4 front hot-swap 2.5&quot; PCIe 5.0 x4 NVMe drive bay(s)</td>
</tr>
<tr>
<td></td>
<td>Option B: Total 4 bay(s)</td>
<td>Option B: Total 4 bay(s)</td>
</tr>
<tr>
<td></td>
<td>4 front hot-swap 2.5&quot; PCIe 5.0 x4 NVMe* drive bay(s)</td>
<td>4 front hot-swap 2.5&quot; PCIe 5.0 x4 NVMe drive bay(s)</td>
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<tr>
<td></td>
<td>Option C: Total 2 bay(s)</td>
<td>Option C: Total 2 bay(s)</td>
</tr>
<tr>
<td></td>
<td>2 front hot-swap 2.5&quot; PCIe 5.0 x4 NVMe* drive bay(s)</td>
<td>2 front hot-swap 2.5&quot; PCIe 5.0 x4 NVMe drive bay(s)</td>
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<tr>
<td></td>
<td>*Optional</td>
<td>*Optional</td>
</tr>
<tr>
<td></td>
<td>M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110=default/2280; USB 2.0; VROC required for RAID)</td>
<td>M2: 2 M.2 PCIe 5.0 x4 NVMe drive bay(s)</td>
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<tr>
<td><strong>Power Supply</strong></td>
<td>2x 3000W Redundant (1 + 1) Titanium (certification pending) Level (96%) power supplies</td>
<td>2x 2200W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
</tr>
<tr>
<td><strong>Cooling System</strong></td>
<td>2x 16K RPM Heavy Duty 8cm Fan(s)</td>
<td>2x 16K RPM Heavy Duty 8cm Fan(s)</td>
</tr>
<tr>
<td><strong>Form Factor</strong></td>
<td>2U Rackmount</td>
<td>2U Rackmount</td>
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X14 Server Solutions - June 2024
**X14 CloudDC with DC-MHS**

**Intel® Xeon® 6 Processors Supported**

### Model Specifications

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<tr>
<th>MODEL</th>
<th>SYS-122C-TN</th>
<th>SYS-222C-TN</th>
<th>SYS-112C-TN</th>
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<tbody>
<tr>
<td>Processor Support</td>
<td>Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T</td>
<td>Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T</td>
<td>Single Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache</td>
</tr>
<tr>
<td>Serverboard</td>
<td>SUPER® X14DBHM</td>
<td>SUPER® X14DBHM</td>
<td>SUPER® X14SBHM</td>
</tr>
<tr>
<td>Chipset</td>
<td>System on Chip</td>
<td>System on Chip</td>
<td>System on Chip</td>
</tr>
<tr>
<td>System Memory (Max.)</td>
<td>Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM</td>
<td>Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM</td>
<td>Slot Count: 16 DIMM slots/8 Channels Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM</td>
</tr>
<tr>
<td>Expansion Slots</td>
<td>Default 2 PCIe 5.0 x16 LP slot(s) 1 PCIe 5.0 x8 LP slot(s) 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</td>
<td>Default 4 PCIe 5.0 x16 (in x16) FHFL slot(s) 1 PCIe 5.0 x8 (in x16) FHFL slot(s) Option A 2 PCIe 5.0 x16 (in x16) FHFL slot(s) 1 PCIe 5.0 x8 (in x16) FHFL slot(s)</td>
<td>Default 2 PCIe 5.0 x16 FHHL slot(s) 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</td>
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<tr>
<td>Connectivity</td>
<td>Via Slim-AIOM</td>
<td>Via Slim-AIOM</td>
<td>Via Slim-AIOM</td>
</tr>
<tr>
<td>VGA/Audio</td>
<td>1 VGA port(s) (Rear)</td>
<td>1 VGA port(s) (Rear)</td>
<td>1 Mini-DP port(s) (Rear)</td>
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<tr>
<td>Management</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
</tr>
<tr>
<td>Drive Bays</td>
<td>Default: Total 12 bay(s) 12 front hot-swap 2.5&quot; NVMe*/SAS*/SATA* drive bay(s) *Optional M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110)(default)/2280; VROC required for RAID)</td>
<td>Default: Total 12 bay(s) 12 front hot-swap 2.5&quot; NVMe*/SAS*/SATA* drive bay(s) *Optional M2: 2 M.2 PCIe 5.0 x4 NVMe slot(s) (M-key 22110)(default)/2280; VROC required for RAID)</td>
<td>Default: Total 8 bay(s) 8 front hot-swap 2.5&quot; PCIe 5.0 NVMe/SAS*/SATA* drive bay(s) Option A: Total 12 bay(s) 12 front hot-swap 2.5&quot; PCIe 5.0 NVMe*/SAS*/ SATA* drive bay(s) *Optional</td>
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<tr>
<td>Power Supply</td>
<td>2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
<td>2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
<td>2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
</tr>
<tr>
<td>Cooling System</td>
<td>8x 4cm heavy duty fans with optimal fan speed control</td>
<td>4x 8cm heavy duty fans with optimal fan speed control</td>
<td>8 Counter-Rotating PWM 40x40x56mm Fan(s)</td>
</tr>
<tr>
<td>Form Factor</td>
<td>1U Rackmount</td>
<td>2U Rackmount</td>
<td>1U Rackmount</td>
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## Intel® Xeon® 6 6700 series processors supported

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<th>SYS-512B-WR</th>
<th>SYS-522B-WR</th>
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<tbody>
<tr>
<td>Processor Support</td>
<td>Single Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache</td>
<td>Single Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache</td>
<td>Single Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache</td>
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<tr>
<td>Serverboard</td>
<td>SUPER® X14SBW-F</td>
<td>SUPER® X14SBW-F</td>
<td>SUPER® X14SBW-F</td>
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<tr>
<td>Chipset</td>
<td>System on Chip</td>
<td>System on Chip</td>
<td>System on Chip</td>
</tr>
<tr>
<td>System Memory (Max.)</td>
<td>Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM</td>
<td>Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM</td>
<td>Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM</td>
</tr>
<tr>
<td>Expansion Slots</td>
<td>Default 2 PCIe 5.0 x16 FHFL slot(s) 1 PCIe 5.0 x8 (in x16) LP slot(s)</td>
<td>Default 2 PCIe 5.0 x16 FHFL slot(s) 1 PCIe 5.0 x8 (in x16) LP slot(s)</td>
<td>Default 1 PCIe 5.0 x16 FHFL double-width slot(s) 2 PCIe 5.0 x8 LP slot(s) Option A* 1 PCIe 5.0 x16 FHFL double-width slot(s) 2 PCIe 5.0 x8 (in x16) FHFL slot(s) 2 PCIe 5.0 x8 LP slot(s)</td>
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<tr>
<td>Connectivity</td>
<td>2 RJ45 1GbE with Intel® I210</td>
<td>2 RJ45 1GbE with Intel® I210</td>
<td>2 RJ45 1GbE with Intel® I210</td>
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<tr>
<td>VGA/Audio</td>
<td>1 VGA port(s)</td>
<td>1 VGA port(s)</td>
<td>1 VGA port(s)</td>
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<tr>
<td>Management</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
<td>SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)</td>
</tr>
<tr>
<td>Drive Bays</td>
<td>Option A: Total 10 bay(s) 8 front hot-swap 2.5&quot; SATA drive bay(s)</td>
<td>Option A: Total 4 bay(s) 4 front hot-swap 2.5&quot; SATA drive bay(s)</td>
<td>Option A: Total 8 bay(s) 8 front hot-swap 2.5&quot; SATA drive bay(s)</td>
</tr>
<tr>
<td>Power Supply</td>
<td>2x860W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
<td>2x860W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
<td>2x1000W Redundant (1 + 1) Titanium Level (96%) power supplies</td>
</tr>
<tr>
<td>Cooling System</td>
<td>1 AOC cooling Fan(s) (optional) 5 middle cooling PWM 40x40x56mm Fan(s)</td>
<td>1 AOC cooling Fan(s) (optional) 5 middle cooling PWM 40x40x56mm Fan(s)</td>
<td>3x (80cm x80cm x38cm) heavy duty fans with optimal fan speed control</td>
</tr>
<tr>
<td>Form Factor</td>
<td>1U Rackmount</td>
<td>1U Rackmount</td>
<td>2U Rackmount</td>
</tr>
</tbody>
</table>

---

X14 Server Solutions - June 2024
### Processor Support
- **SSG-122B-NE316R**: Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores
- **SSG-222B-NE3X24R**: Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores

### System Memory (Max.)
- **SSG-122B-NE316R**: Slot Count: 32 DIMM slots
- **SSG-222B-NE3X24R**: Slot Count: 32 DIMM slots

### Expansion Slots
- **Default**: 2 PCIe 5.0 x16 FHHL slot(s)
- **Default**: 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)

### Onboard Storage Controller
- **Drive Bays**
  - Default: Total 16 bay(s)
  - 16 front hot-swap E3.5 1T NVMe drive bay(s)
  - M2: 2 M.2 NVMe/SATA slot(s) (M-key 2280/22110)

### Connectivity
- **VGA/Audio**: 1 VGA port(s)
- **Management**: SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)

### Power Supply
- **SSG-122B-NE316R**: 2x 2000W Redundant Titanium Level power supplies
- **SSG-222B-NE3X24R**: 2x 2000W Redundant (1 + 1) Titanium Level power supplies

### Cooling System
- **SSG-122B-NE316R**: 8x 4cm heavy duty fans with optimal fan speed control
- **SSG-222B-NE3X24R**: 4x 8cm heavy duty fans with optimal fan speed control

### Form Factor
- **SSG-122B-NE316R**: Rackmount
- **SSG-222B-NE3X24R**: Rackmount
**X14 Telco/Edge**

1U UP Short-Depth

**NEW! Intel® Xeon® 6 6700 series processors supported**

---

### MODEL | **SYS-112B-FWT** | **SYS-112B-FDWR**
---|---|---
**Processor Support** | Single Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/160T; Up to 60MB Cache | Single Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/160T; Up to 60MB Cache

**Serverboard** | SUPER® X14SBW-TF | SUPER® X14SBW-F

**Chipset** | System on Chip | System on Chip

**System Memory (Max.)** | Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM | Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 1TB 6400MT/s ECC DDR5 RDIMM

**Expansion Slots** | Default 2 PCIe 5.0 x16 FHFL slot(s) 1 PCIe 5.0 x8 LP slot(s) | Default 2 PCIe 5.0 x16 FHFL slot(s) 1 PCIe 5.0 x8 LP slot(s)

**Connectivity** | 2 RJ45 10GbE with Intel® X550 | 2 RJ45 1GbE with Intel® I210

**VGA/Audio** | 1 VGA port(s) | 1 VGA port(s)

**Management** | SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!) | SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)

**Drive Bays** | Default: Total 2 bay(s) 2 internal fixed 2.5” NVMe/SATA drive bay(s) M2: 2 M.2 PCIe 5.0 x2 NVMe slot(s) (M-key 2280/22110) | Default: Total 2 bay(s) 2 internal fixed 2.5” NVMe/SATA drive bay(s) M2: 2 M.2 PCIe 5.0 x2 NVMe slot(s) (M-key 2280/22110)

**Power Supply** | 2x 860W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies | 2x 600W Redundant (1 + 1) Typical 90%+ Level (92%) power supplies

**Cooling System** | 6x 4cm heavy duty fans with optimal fan speed control | 6x 4cm heavy duty fans with optimal fan speed control

**Form Factor** | 1U Rackmount | 1U Rackmount
## X14 Server Solutions - June 2024

### Intel® Xeon® 6 6700 series processors supported

#### MODEL | SYS-212B-FN2T | SYS-212B-FN4TP
--- | --- | ---
**Processor Support** | Single Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores | Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T, Up to 172MB Cache

**Serverboard** | SUPER® X14SBM-TF | SUPER® X14SBM-TP4F

**Chipset** | System on Chip | System on Chip

**System Memory (Max.)** | Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 1TB ECC DDR5 RDIMM | Slot Count: 8 DIMM slots Max Memory (2DPC): Up to 1TB ECC DDR5 RDIMM

**Expansion Slots**

- **Default**
  - 2 PCIe 5.0 x16 (in x16) FHHL slot(s)
  - 1 PCIe 5.0 x16 (in x16) HHHL slot(s)
  - 1 PCIe 5.0 x8 (in x8) HHHL slot(s)
- **Option A**
  - 3 PCIe 5.0 x16 (in x16) FHHL slot(s)
  - 1 PCIe 5.0 x8 (in x8) FHHL slot(s)
- **Option B**
  - 3 PCIe 5.0 x16 (in x16) HHHL slot(s)
  - 1 PCIe 5.0 x8 (in x8) HHHL slot(s)

**Connectivity**

- 2 RJ45 10GBASE-T with Intel® X710-AT2
- 2 SFP+ 10GbE with Intel® X710-TM4

**VGA/Audio**

- 1 VGA port

**Management**

- SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)

**Drive Bays**

- Default: Total 2 bay(s)
- 2 front hot-swap 2.5" NVMe* drive bay(s)
- 2 front hot-swap 2.5" NVMe drive bay(s)
- M2: 2 M.2 NVMe slot(s) (M-key 2280/22110)
- M2: 2 M.2 NVMe slot(s) (M-key 2280/22110)

**Power Supply**

- 2x 800W Redundant (1 + 1) power supplies

**Cooling System**

- 4x 4-PIN PWM 8cm Fan(s)

**Form Factor**

- 2U Rackmount

---

*NEW!* 2U UP Short-Depth

2U Rackmount
**NEW!**
Intel® Xeon® 6 Processors Supported

---

**8U Enclosure**

<table>
<thead>
<tr>
<th></th>
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<th></th>
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</thead>
<tbody>
<tr>
<td>Server</td>
<td>Up to 20 hot-swappable, half-height, single-wide blade servers. Up to 10 hot-swappable, half-height, double-wide blade servers. Mixed configuration supported</td>
<td>Up to 10 hot-swappable, single-wide blade servers. Up to 5 hot-swappable, double-wide blade servers. Mixed configuration supported</td>
<td></td>
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<tr>
<td>LED Indicator</td>
<td>Power LED, Fault LED</td>
<td>Power LED, Fault LED</td>
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<tr>
<td>InfiniBand Switch</td>
<td>200G HDR InfiniBand switch</td>
<td>N/A</td>
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<tr>
<td>Ethernet Switch / Pass-Thru Module</td>
<td>Up to 4 hot-swappable 25G Ethernet switches or pass-thru modules</td>
<td>Up to 4 hot-swappable 25G Ethernet switches or pass-thru modules</td>
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<tr>
<td>Chassis Management Module (CMM)</td>
<td>Up to 2 hot-swappable CMMs for remote system management with software</td>
<td>Up to 2 hot-swappable CMMs for remote system management with software</td>
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<tr>
<td>Models</td>
<td>SBE-820H2/J2-830/630: Up to 8 hot-swappable 3000W Titanium (96% efficiency) power supplies</td>
<td>SBE-610J2-830/630/430: Up to 8 hot-swappable 3000W Titanium (96% efficiency) power supplies</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>SBE-820H2-822/622: Up to 8 hot-swappable 2200W Titanium (96% efficiency) power supplies</td>
<td>SBE-610J2-822/622/422: Up to 8 hot-swappable 2200W Titanium (96% efficiency) power supplies</td>
<td></td>
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<td></td>
</tr>
<tr>
<td></td>
<td>SBE-820J2-822/622/422: Up to 8 hot-swappable 2200W Titanium (96% efficiency) power supplies</td>
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<tr>
<td>Rack Unit</td>
<td>8 RU</td>
<td>6 RU</td>
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<tr>
<td>Form Factor</td>
<td>356 x 447 x 813mm (14&quot; x 17.6&quot; x 32&quot;)</td>
<td>267 x 447 x 813mm (10.5&quot; x 17.6&quot; x 32&quot;)</td>
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---

**6U Enclosure**
# X14 8U SuperBlade®

**NEW!** Intel® Xeon® 6 Processors Supported

![X14 SuperBlade](image)

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SBI-422B-1NE14</th>
<th>SBI-422B-5NE14</th>
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<tr>
<td>Servers per Enclosure</td>
<td>20</td>
<td>10</td>
</tr>
<tr>
<td>Processor</td>
<td>Dual Intel® Xeon® 6700 series processors with E-cores - up to 288 cores per node</td>
<td>Dual Intel® Xeon® 6700 series processors with E-cores - up to 288 cores per node</td>
</tr>
<tr>
<td>System Memory (Max.)</td>
<td>Support for DDR5-6400 with up to 16 DIMMs (up to 4TB memory)</td>
<td>Support for DDR5-6400 with up to 16 DIMMs (up to 4TB memory)</td>
</tr>
<tr>
<td>PCIe Expansion</td>
<td>2 OCP 3.0 (PCIe 5.0 x16)</td>
<td>2 OCP 3.0 (PCIe 5.0 x16)</td>
</tr>
</tbody>
</table>
| Storage & RAID | 4 Hot-swappable E1.5 NVMe SSDs  
1 M.2 NVMe SSD  
Additional 4 M.2 NVMe SSDs with optional mezzanine card | 4 Hot-swappable E1.5 NVMe SSDs  
1 M.2 NVMe SSD  
Additional 4 M.2 NVMe SSDs with optional mezzanine card |
| Networking | Dual-port 25GbE LOM (LAN on Motherboard)  
OCP 3.0 slots for up to 2 network cards  
Optional mezzanine card for 200G IB or additional dual-port 25GbE | Dual-port 25GbE LOM (LAN on Motherboard)  
OCP 3.0 slots for up to 2 network cards  
Optional mezzanine card for 200G IB or additional dual-port 25GbE |
| Management | Redundant Chassis Management Modules, Open Industry Standard  
IPMI 2.0 / KVM over IP / Redfish API / TPM 2.0 / Signed Firmware / Hardware Root of Trust | Redundant Chassis Management Modules, Open Industry Standard  
IPMI 2.0 / KVM over IP / Redfish API / TPM 2.0 / Signed Firmware / Hardware Root of Trust |
| LED Indicators | Fault LED, Network Activity LED, Power LED, UID | Fault LED, Network Activity LED, Power LED, UID |
| Form Factor | 165 x 44.4 x 597mm (6.5” x 1.75” x 23.5”) | 165 x 88.9 x 597mm (6.5” x 3.5” x 23.5”) |
| Enclosure | SBE-820H2/J2-830/630  
SBE-820H2-822/622  
SBE-820H-822/622  
SBE-820J-J2-822/622  
SBE-820J-822/622 | SBE-820H2/J2-830/630  
SBE-820H2/J2-822/622 |
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<th>MODEL</th>
<th>SBI-612B-1NE34</th>
<th>SBI-612B-5NE34</th>
<th>SBI-612B-1C2N</th>
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<tbody>
<tr>
<td>Servers per Enclosure</td>
<td>10</td>
<td>5</td>
<td>10</td>
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<tr>
<td>Processor</td>
<td>Single Intel® Xeon® 6700 series processors</td>
<td>Single Intel® Xeon® 6700 series processors</td>
<td>Single Intel® Xeon® 6700 series processors</td>
</tr>
<tr>
<td>GPU or Network Cards</td>
<td>Up to 2 FHFL GPUs or network cards</td>
<td>Up to 4 FHFL GPUs or network cards</td>
<td>Up to 2 FHFL GPUs or network cards</td>
</tr>
<tr>
<td>System Memory (Max.)</td>
<td>Support for DDR5-6400 with 16 DIMMs in UP (Up to 4TB memory)</td>
<td>Support for DDR5-6400 with 16 DIMMs in UP (Up to 4TB memory)</td>
<td>Support for DDR5-6400 with 16 DIMMs in UP (Up to 4TB memory)</td>
</tr>
<tr>
<td>PCIe Expansion</td>
<td>Up to 2 PCIe 5.0 x16 slots (Front I/O)</td>
<td>Up to 4 PCIe 5.0 x16 slots (Front I/O)</td>
<td>Up to 2 PCIe 5.0 x16 slots (Front I/O)</td>
</tr>
<tr>
<td>Storage &amp; RAID</td>
<td>4 Hot-swappable E3.5 NVMe SSDs 1 M.2 NVMe SSD</td>
<td>4 Hot-swappable E3.5 NVMe SSDs 1 M.2 NVMe SSD</td>
<td>2 Hot-swappable U.2 NVMe/SAS 1 M.2 NVMe SSD</td>
</tr>
<tr>
<td>Networking</td>
<td>Dual-port 25GbE LOM (LAN on Motherboard) 2 PCIe network cards (Front I/O) Optional mezzanine card for additional dual-port 25GbE</td>
<td>Dual-port 25GbE LOM (LAN on Motherboard) 4 PCIe network cards (Front I/O) Optional mezzanine card for additional dual-port 25GbE</td>
<td>Dual-port 25GbE LOM (LAN on Motherboard) 2 PCIe network cards (Front I/O) Optional mezzanine card for additional dual-port 25GbE</td>
</tr>
<tr>
<td>Management</td>
<td>Redundant Chassis Management Modules, Open Industry Standard IPMI 2.0 / KVM over IP / Redfish API / TPM 2.0 / Signed Firmware / Hardware Root of Trust</td>
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<td>LED Indicators</td>
<td>Fault LED, Network Activity LED, Power LED, UID</td>
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<tr>
<td>Form Factor</td>
<td>248 x 44.4 x 597mm (9.75&quot; x 1.75&quot; x 23.5&quot;)</td>
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<td>248 x 44.4 x 597mm (9.75&quot; x 1.75&quot; x 23.5&quot;)</td>
</tr>
</tbody>
</table>
**X14 6U SUPERBLADE®**

**NEW!** Intel® Xeon® 6 Processors Supported

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### Specifications Table

<table>
<thead>
<tr>
<th>MODEL</th>
<th>SBI-622B-1NE34</th>
<th>SBI-622B-5NE34</th>
<th>SBI-622B-1NE38</th>
<th>SBI-622B-5NE38</th>
</tr>
</thead>
<tbody>
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<td>Servers per Enclosure</td>
<td>10</td>
<td>5</td>
<td>10</td>
<td>5</td>
</tr>
<tr>
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<tr>
<td>GPU or Network Cards</td>
<td>Up to 2 FHHL GPUs and network cards</td>
<td>Up to 4 GPUs or network cards</td>
<td>N/A</td>
<td>N/A</td>
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<td>System Memory (Max.)</td>
<td>Support for DDR5-6400 with 32 DIMMs in DP (Up to 8TB memory)</td>
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<td>8 Hot-swappable E3.5 NVMe SSDs, 2 M.2 NVMe SSDs with optional adapter</td>
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<td>248 x 88.9 x 596.9mm (9.75” x 3.5” x 23.5”)</td>
</tr>
</tbody>
</table>
Global Expansion
Providing Greater Economies of Scale and Accelerated Support to Data Center, Cloud Computing, AI, Enterprise IT, HPC, 5G, Hyperscale, and Embedded Solutions Customers Worldwide

America
- Supermicro’s Headquarters expansion: Over 1.5 million square foot Green Computing Park in San Jose, California signals the company’s increasing leadership in the IT industry
- One of the largest high-tech R&D, manufacturing, and business hubs in Silicon Valley
- East Coast Sales and Service Office

APAC
Supermicro’s Asia Science and Technology Park is a key milestone in the company’s growth as a true global leader in the development of advanced, power saving computing technologies

Silicon Valley
Expanded manufacturing, command center

EMEA
Supermicro’s system integration facility and services in The Netherlands serves the dynamic, rapidly growing EMEA market with localized supply and time-to-market advantages

Supermicro Worldwide

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Tech Support: Support@Supermicro.com
Webmaster: Webmaster@Supermicro.com

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Fax: +81-3-5728-5197
Sales inquiry: Sales_Inquiry_JP@Supermicro.com
Tech Support: Support_Japan@Supermicro.com

Korea Office
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Tel: +82-2-554-0045
Fax: +82-2-554-0146
Sales Inquiry: Sales-Asia@supermicro.com.tw

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Fax: +86-21-61152556
E-mail: Sales-CN@supermicro.com
Support: Support-CN@supermicro.com

Shanghai, China Office
Super Micro Computer, Inc.
Room 702, No 398, North Caoli Road, Huzhi Building, Xuhui District, Shanghai, China 200030
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Tech Support: +86-21-6152556
E-mail: Sales-CN@supermicro.com
Support: Support-CN@supermicro.com

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Regus - Reading Green Park
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Tel: +31-73-640-0390 Ext. 2800
General Info: Sales_Europe@supermicro.com
Tech Support: Support_Europe@supermicro.com

Global Expansion
Providing Greater Economies of Scale and Accelerated Support to Data Center, Cloud Computing, AI, Enterprise IT, HPC, 5G, Hyperscale, and Embedded Solutions Customers Worldwide

Supermicro’s system integration facility and services in The Netherlands serves the dynamic, rapidly growing EMEA market with localized supply and time-to-market advantages

Supermicro Worldwide

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General Info: Marketing@Supermicro.com
Tech Support: Support@Supermicro.com
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