Workstation and Gaming Solutions

Accelerate Your Workflow with Supermicro SuperWorkstations featuring 2nd Gen Intel® Xeon® Scalable Processors
Meet the Supermicro Workstation and Gaming Solutions

Accelerate Your Workflow with Supermicro High-Performance Workstation Solutions

**SERVER GRADE VALIDATION**

Server Laboratory Certification confirms the ability of Supermicro® to deliver longstanding durability and stability for your Gaming PC. The validation incorporates:

- Up to 16,000 Hours of Validation Testing
- Over 1,300 Validation items
- Over 300 WW Lab. engineers

**INDUSTRY STANDARD NETWORKING**

Supermicro® motherboards are all equipped with the latest gigabit LAN connections and going as far as including gigabit wireless and 10G options giving you the best performance.

**POWER EFFICIENCY**

The combination of Digital PWM’s, DrMOS and Ferrite Chokes provides higher power efficiency while still maintaining a cooler temperature, for stability in gaming and overclocking.

**24/7 RELIABILITY**

- Up to 16,000 Hours of Validation Testing
- Over 1,300 Validation items
- Over 300 WW Lab. engineers

**SUPERARMOR**

Enterprise grade protection on your vital components with secured entrances securing your precious investment from warping.
Advanced performance, server-grade reliability, and high customizability make Supermicro SuperWorkstations ideal for engineers and product designers. Whether you are building complex 3D models, rendering photo-realistic designs, or simulating product performance, SuperWorkstation solutions have the best product selections and configurations to accelerate your productivity. Featuring 2nd Gen Intel® Xeon® SP and W-2200 series processors, NVIDIA® Quadro® Professional GPUs, and ultra-fast NVMe storage, Supermicro can custom-configure an optimal workstation solution for your MPD workflow and budget.

**SYS-5049A-T**

**For Rendering and Simulation**

- **CPU**
  - Supports 1st/2nd Gen Intel® Xeon® SP Processors, up to 4.0Ghz Turbo; up to 28 Cores

- **Memory**
  - Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz

- **Storage**
  - 4x M.2 NVMe slots
  - 8x front hot-swappable bays (3.5” or 2.5”)

- **GPU**
  - Up to 2 GPUs

- **I/O**
  - 6x USB 3.1 Gen 1 (2x front, 4x rear)
  - 1x USB 3.1 Gen 2 Type C (rear)
  - 7.1 HD Audio

- **Network**
  - 1GbE LAN (Intel® i210AT)
  - 10GbE LAN (Acquantia AQC107)
  - 1GbE LAN (Dedicated IPMI)

- **Power**
  - 1200W 80PLUS Gold Power Supply

**SYS-5039A-I**

**For Design and Modeling**

- **CPU**
  - Supports Intel® Xeon® W-2200 Processors, up to 4.8Ghz Turbo; up to 18 Cores

- **Memory**
  - Up to 1TB Registered ECC LRDIMM, DDR4-2666MHz

- **Storage**
  - 2x M.2 NVMe; 1x U.2 and 6x SATA ports

- **GPU**
  - Up to 2 GPUs

- **I/O**
  - 2x USB 2.0 (rear)
  - 6x USB 3.1 Gen 1 (2x front, 4x rear)
  - 2x USB 3.1 Gen 2 Type A (rear)
  - 7.1 HD Audio

- **Network**
  - 1GbE LAN (Intel® i219LM)
  - 5GbE LAN (Acquantia AQC108)

- **Power**
  - 900W 80PLUS Gold Power Supply

**Form Factor**

- Full Tower with redundant option
- Mid-Tower

**Manufacturing and Product Design**
Major movie studios, post houses and VFX studios select Supermicro server solutions for reliability, performance and scalability. Supermicro now delivers the same features and values in certified workstation solutions. Whether you need a high clock frequency system for 3D modeling or a multi-core configuration for rendering, Supermicro can offer an optimized workstation solution for your creative application.

### Media and Entertainment

**SYS-5039AD-I**
- For 3D Modeling and Animation
- **CPU**
  - Supports Intel® Core X-Series Processors, up to 4.8GHz Turbo; up to 18 Cores
- **Memory**
  - Up to 256GB non-ECC UDIMM DDR4-2933MHz
- **Storage**
  - 2x M.2 NVMe; 1x U.2 and 6x SATA ports
- **GPU**
  - Up to 2 GPUs
- **I/O**
  - 6x USB 3.1 Gen 1 (2x front, 4x rear)
  - 4x USB 3.1 Gen 2 (3x rear Type A and 1 rear Type C)
  - 7.1 HD Audio
- **Network**
  - 1GbE LAN (Intel® i219LM)
  - 5GbE LAN (Acquantia AQC108)
- **Power**
  - 750W 80PLUS Gold Power Supply
- **Form Factor**
  - Mid-Tower

**SYS-5049A-T**
- For Video Editing and Rendering
- **CPU**
  - Supports 1st/2nd Gen Intel® Xeon® SP Processors, up to 4.0GHz Turbo; up to 28 Cores
- **Memory**
  - Up to 4TB DDR4-2933MHz
- **Storage**
  - 4x M.2 NVMe slots
  - 8x front hot-swappable bays (3.5" or 2.5")
- **GPU**
  - Up to 2 GPUs
- **I/O**
  - 6x USB 3.1 Gen 1 (2x front, 4x rear)
  - 1x USB 3.1 Gen 2 Type A (rear)
  - 1x USB 3.1 Gen 2 Type C (rear)
  - 7.1 HD Audio
- **Network**
  - 1GbE LAN (Intel® i210AT)
  - 10GbE LAN (Acquantia AQC107)
  - 1GbE LAN (Dedicated IPMI)
- **Power**
  - 1200W 80PLUS Gold Power Supply
- **Form Factor**
  - Full-Tower with rackmount option
Accelerate your AEC workflow and increase your productivity with Supermicro Single-Processor Workstation Solutions. Powered by NVIDIA Quadro professional GPUs, high clock frequency Intel Core™ processors, and enterprise-grade NVMe storage, Supermicro Workstations are fast, reliable, and cost-effective for your business needs.

**Architecture, Engineering & Construction**

**SYS-5039C-T**
- For 2D Design
- Supports Intel Xeon E-2200 Processors, up to 5.0GHz Turbo; up to 8 Cores

**SYS-5039AD-I**
- For 3D Modeling and Animation
- Supports Intel Core X-Series Processors, up to 4.8GHz Turbo; up to 18 Cores

**Memory**
- Up to 256GB ECC UDIMM DDR4-2933MHz
- Up to 256GB non-ECC UDIMM DDR4-2933MHz

**Storage**
- 1x M.2 NVMe; 1x U.2 NVMe and 8x SATA ports
- 2x M.2 NVMe; 1x U.2 and 6x SATA ports

**GPU**
- Up to 1 GPU
- Up to 2 GPUs

**I/O**
- 2x USB 2.0 (front)
- 4x USB 3.1 Gen 1 (2x front, 2x rear)
- 2x USB 3.1 Gen 2 (1x rear Type A and 1 rear Type C)
- 7.1 HD Audio

**Network**
- 1GbE LAN (Intel i219LM)
- 1GbE LAN (Intel I210-AT)

**Power**
- 500W 80PLUS Bronze Power Supply
- 750W 80PLUS Gold Power Supply

**Form Factor**
- Mid-Tower

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SYS-5039C-T

SYS-5039AD-I
SuperWorkstation

Delivering incredible performance running Deep Learning applications, the Supermicro SYS-5049A-TR is an ideal development workstation designed for engineers or researchers who need a robust system with high CPU and GPU computational core counts. Featuring Intel® Xeon® W-3200 series processors, up to 4 NVIDIA® GPUs, and ultra-fast NVMe storage, the SYS-5049A-TR is ready to accelerate your deep learning research right at your desk.

SYS-5049A-TR

For Multi-GPU applications

CPU
- Supports Intel 8th gen "Tiger Lake" (C & N) or "Ghost Lake" (S) Core i9/i7/i5 processors, up to 4.6GHz Turbo

Memory
- 8x DDR4 ECC RDIMM, 4800/4900MHz

Storage
- 4x M.2 NVMe slots
- 8x front hot-swappable bays (3.5" or 2.5"

GPU
- Up to 4 GPUs (Active or Passive)

I/O
- 6x USB 3.1 Gen 1 (2x front, 4x rear)
- 1x USB 3.1 Gen 2 Type A (rear)
- 1x USB 3.1 Gen 2 Type C (rear)
- 7.1 HD Audio

Network
- 1GbE LAN (Intel® i210AT)
- 10GbE LAN (Acquantia AQC107)
- 1GbE LAN (Dedicated IPMI)

Power
- 2200W Redundant 80PLUS Platinum Power Supply

Form Factor
- Full Tower with rackmount option
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Processor</th>
<th>Memory Support</th>
<th>Storage Expansion</th>
<th>Network Options</th>
<th>Expansion Options</th>
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</thead>
<tbody>
<tr>
<td>C9Z490-PG</td>
<td>Blasting Gaming ATX for Intel Core Processor</td>
<td>18th Gen. Intel Core® i Processor</td>
<td>4 PCI-E x16 for GPUs double width (16/NA/16/NA)</td>
<td>2 M.2 + 2 U.2 maximum storage expansion</td>
<td>Lightning Fast 10Gb/s LAN</td>
<td>4 PCI-E x16 for GPUs double width</td>
</tr>
<tr>
<td>C9Z490-PGW</td>
<td>Blasting Gaming ATX for Intel Core Processor with Dual LAN &amp; Wi-Fi</td>
<td>18th Gen. Intel Core® i Processor</td>
<td>4 PCI-E x16 for GPUs double width (16/NA/16/NA)</td>
<td>2 M.2 + 2 U.2 maximum storage expansion</td>
<td>Lightning Fast 10Gb/s LAN</td>
<td>4 PCI-E x16 for GPUs double width</td>
</tr>
<tr>
<td>C9X299-PG300F</td>
<td>Prime OC ATX for Intel Core X Processor with Dual LAN &amp; IPMI</td>
<td>9th/10th Gen. Intel® Core™ i7 &amp; i9 Extreme X-series Processor</td>
<td>3 PCI-E x16 for GPUs double width (16/16/16)</td>
<td>2 M.2 + 2 U.2 maximum storage expansion</td>
<td>Lightning Fast 10Gb/s LAN</td>
<td>4 PCI-E x16 for GPUs double width</td>
</tr>
<tr>
<td>C9X299-PGF</td>
<td>Prime OC ATX for Intel Core X Processor with Dual LAN &amp; IPMI</td>
<td>9th/10th Gen. Intel® Core™ i7 &amp; i9 Extreme X-series Processor</td>
<td>4 PCI-E x16 for GPUs double width (16/16/16)</td>
<td>2 M.2 + 2 U.2 maximum storage expansion</td>
<td>Lightning Fast 10Gb/s LAN</td>
<td>4 PCI-E x16 for GPUs double width</td>
</tr>
<tr>
<td>C9X299-RPGF</td>
<td>Prime OC ATX for Intel Core X Processor with Dual LAN &amp; IPMI</td>
<td>9th/10th Gen. Intel® Core™ i7 &amp; i9 Extreme X-series Processor</td>
<td>4 PCI-E x16 for GPUs double width (16/16/16)</td>
<td>2 M.2 + 2 U.2 maximum storage expansion</td>
<td>Lightning Fast 10Gb/s LAN</td>
<td>4 PCI-E x16 for GPUs double width</td>
</tr>
</tbody>
</table>
X12SAE
Superb ATX for Intel Xeon & Core CPU with Dual LAN

X12SCA-F
Exceptional ATX for Intel Xeon & Core CPU with Dual LAN & IPMI

X11SCA
Exceptional ATX for Intel Xeon & Core CPU with Dual LAN

X11SCA-F
Exceptional ATX for Intel Xeon & Core CPU with Dual LAN & IPMI

X11SCA-W
Exceptional ATX for Intel Xeon & Core CPU with Dual LAN & Wi-Fi

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**X12SAE**
- Superb ATX for Intel Xeon & Core CPU with Dual LAN
- New!
- Exceptional ATX for Intel Xeon & Core CPU with Dual LAN & IPMI

**X12SCA-F**
- For Intel Xeon & Core CPU
- Exceptional ATX for Intel Xeon & Core CPU with Dual LAN & IPMI
- New!

**X11SCA**
- For Intel Xeon & Core CPU
- Exceptional ATX for Intel Xeon & Core CPU with Dual LAN

**X11SCA-F**
- For Intel Xeon & Core CPU
- Exceptional ATX for Intel Xeon & Core CPU with Dual LAN & IPMI

**X11SCA-W**
- For Intel Xeon & Core CPU
- Exceptional ATX for Intel Xeon & Core CPU with Dual LAN & Wi-Fi

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- **Intel® Xeon® W1200 & 10th Gen. Core™ i Processor**
- 2 PCI-E 3.0 x16 Slots (metal armor, 16/NA or 8/8) + 1 PCI slot
- Max. 128GB DDR4 ECC Memory speeds up to 3200(2dpc) MHz
- 2 M.2 Optimized Storage Performance, support RAID 0,1
- Dual Intel® 1Gb/s LAN support

- **Intel® Xeon® E2100/2200 & 8/9th Gen. Core™ i Processor**
- 2 PCI-E 3.0 x16 Slots (metal armor, 16/NA or 8/8) + 1 PCI slot
- Max. 128GB DDR4 ECC Memory up to 2666MHz
- 2 M.2+ 1 U.2 Optimized Storage Performance
- Dual Intel® 1Gb/s LAN support

- **Intel® Xeon® E2100/2200 & 8/9th Gen. Core™ i Processor**
- 2 PCI-E 3.0 x16 Slots (metal armor, 16/NA or 8/8) + 1 PCI slot
- 1 Gigabit LAN Wi-Fi + Bluetooth 5.0
- 2 M.2+ 1 U.2 Optimized Storage Performance

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**www.supermicro.com/superworkstation**
**X11SPA-TF**
Outstanding EATX for Intel Xeon SP Processor
supports 4 GPU with Dual LAN & IPMI

**Outstanding EATX for Intel Xeon SP/W Processor**
supports 4 GPU with Dual LAN & IPMI

- **Intel® Xeon™ Scalable Processor** for 1S Workstation
- 4 GPU cards (PCI-E 3.0x16) or 7 GPU cards (PCI-E 3.0x8)
- Max. 3TB 3DS ECC RDIMM, DDR4-2933MHz
- 10Gb/s AQC107 and Intel® 1Gb/s LAN support
- IPMI with dedicated VGA and LAN ports

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**X11SRA**
Superior ATX for Intel XeonW Processor
with Dual LAN

**Superior ATX for Intel XeonW Processor**
with Dual LAN & IPMI

- **Intel® Xeon™ W2100/2200 Processor**
- 3 PCIE 3.0 x16 for GPUs double width (8/16/16)
- 512GB Unbuffered ECC RDIMM, DDR4-2666MHz
- 2 M.2 + 2 U.2 maximum storage expansion
- IPMI with dedicated VGA ports

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**X11SRA-F**
Superior ATX for Intel XeonW Processor
with Dual LAN & IPMI

**Superior ATX for Intel XeonW Processor**
with Dual LAN & IPMI

- **Intel® Xeon™ W2100/2200 Processor**
- 3 PCIE 3.0 x16 for GPUs double width (8/16/16)
- 512GB Unbuffered ECC RDIMM, DDR4-2666MHz
- 2 M.2 + 2 U.2 maximum storage expansion
- IPMI with dedicated VGA ports

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**X11SRA-RF**
Superior ATX for Intel XeonW Processor
with Dual LAN & IPMI

**Superior ATX for Intel XeonW Processor**
with Dual LAN & IPMI

- **Intel® Xeon™ W2100/2200 Processor**
- 3 PCIE 3.0 x16 for GPUs double width (8/16/16)
- 512GB Unbuffered ECC RDIMM, DDR4-2666MHz
- 2 M.2 + 2 U.2 maximum storage expansion
- IPMI with dedicated VGA ports

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**Workstation and Gaming Solutions**

www.supermicro.com/superworkstation
<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
<th>Supported CPUs</th>
<th>Features</th>
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<tr>
<td>X11SAT</td>
<td>Preferred ATX for Intel Xeon &amp; Core Processor with Dual LAN, Thunderbolt</td>
<td>Intel® Xeon™ E3 1200 v5/6 &amp; 6/7th Gen. Core™ i Processor</td>
<td>3 PCI-E 3.0 x16 slots/16/NA or 8/8/16/8 + 1 PCI slot, M.2 Optimized Storage Performance, Dual Intel® XGB LAN support, Thunderbolt 2.0 USB type-C output</td>
</tr>
<tr>
<td>X11SAT-F</td>
<td>Preferred ATX for Intel Xeon &amp; Core Processor with Dual LAN, Thunderbolt &amp; IPMI</td>
<td>Intel® Xeon™ E3 1200 v5/6 &amp; 6/7th Gen. Core™ i Processor</td>
<td>2 PCI-E 3.0 x16 slots/16/NA or 8/8 + 2 PCI slots, M.2 Optimized Storage Performance, IPMI with dedicated VGA ports, Thunderbolt 2.0 USB type-C output</td>
</tr>
<tr>
<td>X11SAE</td>
<td>Superb ATX for Intel Xeon &amp; Core Processor with Dual LAN</td>
<td>Intel® Xeon™ E3 1200 v5/6 &amp; 6/7th Gen. Core™ i Processor</td>
<td>4 DDR4 ECC/Non-ECC UDIMMs, up to 64GB, 2400MHz, Dual Intel® XGB LAN support, M.2 Optimized Storage Performance, Dual Intel® XGB LAN support, Dual Intel® XGB LAN support, Dual Intel® XGB LAN support</td>
</tr>
<tr>
<td>X11SAE-F</td>
<td>Superb ATX for Intel Xeon &amp; Core Processor with Dual LAN &amp; IPMI</td>
<td>Intel® Xeon™ E3 1200 v5/6 &amp; 6/7th Gen. Core™ i Processor</td>
<td>2 PCI-E 3.0 x16 slots/16/NA or 8/8 + 2 PCI slots, M.2 Optimized Storage Performance, IPMI with dedicated VGA ports, Dual Intel® XGB LAN support, Dual Intel® XGB LAN support, Dual Intel® XGB LAN support</td>
</tr>
<tr>
<td>X11SAE-M</td>
<td>Superb uATX for Intel Xeon &amp; Core Processor with Dual LAN</td>
<td>Intel® Xeon™ E3 1200 v5/6 &amp; 6/7th Gen. Core™ i Processor</td>
<td>1 PCI-E 3.0 x16 slots/16/NA or 8/8 + 1 PCI slots, M.2 Optimized Storage Performance, Dual Intel® XGB LAN support, Dual Intel® XGB LAN support, Dual Intel® XGB LAN support</td>
</tr>
</tbody>
</table>
C7242-CB-M
Versatile uATX for Intel Xeon & Core Processor

C7242-CB-MW
Versatile uATX for Intel Xeon & Core Processor with Wi-Fi

731
Cost-effective mini-tower for business desktop or server

732
Classic mid-tower for business desktop or workstation

GS5
Feature-rich mid-tower with optional water cooling kit for gaming and workstation

NEW!

CHASSIS C7C242-CB-M
Versatile uATX for Intel Xeon & Core Processor

CHASSIS C7C242-CB-MW
Versatile uATX for Intel Xeon & Core Processor with Wi-Fi

Intel® Xeon™ E2100/2200 and 8th Gen. Core™ Processor

1 PCIE 3.0 x16 for double-width GPU
3 PCIE 3.0 x1 slots
ECC/Non-ECC UDIMMs up to 128GB
1 M.2 2280/22110

Supports 1x IOX motherboard

Supports up to 4x4096 motherboards

Supports 4x 3.5" external drive bays

Different IO and power supply options are available

1x Rear 12cm (700 RPM) PVC exhaust fan; Front 12cm intake fan (optional)

Dimensions (HxWxD):
16.7" (424 mm) x 7.6" (193 mm) x 20.68" (525 mm)

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Supermicro offers the broadest and deepest portfolio of advanced technology server and storage systems in the IT industry. This offers several advantages to our customers. First, customers can readily select the most optimized solutions to satisfy their business requirements, helping them to reduce their costs and improve the quality and time-to-market (TTM) of their offerings. Additionally, the breadth and depth of Supermicro’s product line provides the efficiency, cost, and reduced complexity advantages of one-stop shopping.

Versatile rackmountable full-tower for high-performance workstation or server

- Supports up to E-ATX motherboard
- 8 x 3.5” external hot-swappable bays;
- 3 x 5.25” external drive bays
- Different I/O, backplane, redundant power supply options are available
- Supports up to 4 middle and 2 rear fans
- Dimensions (HxWxD): 17.8” (452 mm) x 7” (178 mm) x 25.5” (647 mm)

Highly expandable rackmountable full-tower for high-performance workstation or server

- Supports up to 15.7” x 11.7” motherboard
- 8 x 3.5” external hot-swappable bays;
- 3 x 5.25” external drive bays
- Different I/O, backplane, redundant power supply options are available
- Supports up to 4 middle and 2 rear fans
- Dimensions (HxWxD): 18.2” (462 mm) x 7” (178 mm) x 26.5” (673 mm)

Highly expandable rackmountable full-tower for GPU workstation or server

- Supports up to 15.2” x 13.2” motherboard
- 8 x 3.5” external hot-swappable bays;
- 3 x 5.25” external drive bays
- Different I/O, backplane, redundant power supply options are available
- Supports up to 4 middle and 2 rear fans
- Dimensions (HxWxD): 17.8” (452 mm) x 7” (178 mm) x 25.5” (647 mm)

Supermicro offers the broadest and deepest portfolio of advanced technology server and storage systems in the IT industry. This offers several advantages to our customers. First, customers can readily select the most optimized solutions to satisfy their business requirements, helping them to reduce their costs and improve the quality and time-to-market (TTM) of their offerings. Additionally, the breadth and depth of Supermicro’s product line provides the efficiency, cost, and reduced complexity advantages of one-stop shopping.