

## Workstation and Gaming Solutions





Accelerate Your Workflow with Supermicro SuperWorkstations featuring 2<sup>nd</sup> Gen Intel® Xeon® Scalable Processors



#### SERVER GRADE VALIDATION



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

#### INDUSTRY STANDARD NETWORKING



SUPER 

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.

#### 24/7 RELIABILITY



Similar to a server running 24/7 with no shutdown time, SUPER → motherboards are designed to reduce heat and power loss. Incorporating top grade components, overall performance and durability are enhanced even under the most challenging conditions.

#### **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.

#### Super ARMOR



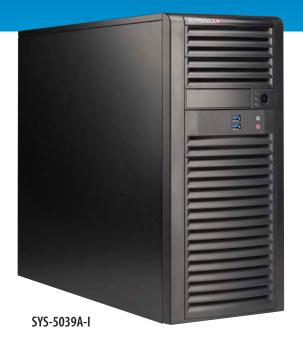
Enterprise grade protection on your vital components with increased retention securing your precious investment from warping.

## Manufacturing and Product Design



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.





For	SYS-5049A-T Rendering and Simulation	SYS-5039A-I For Design and Modeling		
CPU	Supports 1st/2nd Gen Intel® Xeon® SP Processors, up to 4.0Ghz Turbo; up to 28 Cores	<ul> <li>CPU • Supports Intel* Xeon* W-2200 Processors, up to 4.8Ghz Turbo; up to 18 Cores</li> </ul>		
Memory	Up to 3TB 3DS ECC RDIMM, DDR4–2933MHz	Memory • Up to 1TB Registered ECC LRDIMM, DDR4-2666MHz		
Storage	<ul><li>4x M.2 NVMe slots</li><li>8x front hot-swappable bays (3.5" or 2.5")</li></ul>	Storage • 2x M.2 NVMe; 1x U.2 and 6x SATA ports		
GPU	• Up to 2 GPUs	GPU • Up to 2 GPUs		
1/0	<ul> <li>6x USB 3.1 Gen 1 (2x front, 4x rear)</li> <li>1x USB 3.1 Gen 2 Type A (rear)</li> <li>1x USB 3.1 Gen 2 Type C (rear)</li> <li>7.1 HD Audio</li> </ul>	1/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* i210AT)     10GbE LAN (Acquantia AQC107)     1GbE LAN (Dedicated IPMI)	Network • 1GbE LAN (Intel® 1219LM) • 5GbE LAN (Acquantia AQC108)		
Power	• 1200W 80PLUS Gold Power Supply	Power • 900W 80PLUS Gold Power Supply		
Form Factor	Full Tower with rackmount option	Form Factor • Mid-Tower		





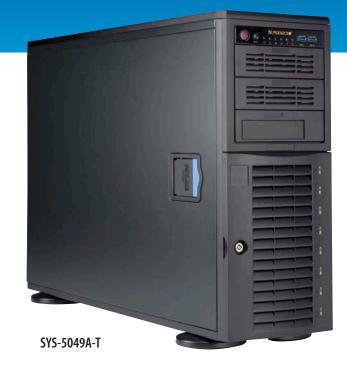


**Media and Entertainment** 



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.





SYS-5039AD-I For 3D Modeling and Animation		For V	SYS-5049A-T For Video Editing and Rendering		
CPU	Supports Intel® Core X-Series Processors, up to 4.8Ghz Turbo; up to 18 Cores	CPU	Supports 1st/2nd Gen Intel® Xeon® SP Processors, up to 4.0Ghz Turbo; up to 28 Cores		
Memory	• Up to 256GB non-ECC UDIMM DDR4-29333MHz	Memory	• Up to 3TB 3DS ECC RDIMM, DDR4-2933MHz		
Storage	2x M.2 NVMe; 1x U.2 and 6x SATA ports	Storage	<ul> <li>4x M.2 NVMe slots</li> <li>8x front hot-swappable bays (3.5" or 2.5")</li> </ul>		
GPU	• Up to 2 GPUs	GPU	• Up to 2 GPUs		
1/0	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	1/0	<ul> <li>6x USB 3.1 Gen 1 (2x front, 4x rear)</li> <li>1x USB 3.1 Gen 2 Type A (rear)</li> <li>1x USB 3.1 Gen 2 Type C (rear)</li> <li>7.1 HD Audio</li> </ul>		
Network	1GbE LAN (Intel <sup>®</sup> i219LM)     5GbE LAN (Acquantia AQC108)	Network	<ul> <li>1GbE LAN (Intel* i210AT)</li> <li>10GbE LAN (Acquantia AQC107)</li> <li>1GbE LAN (Dedicated IPMI)</li> </ul>		
Power	750W 80PLUS Gold Power Supply	Power	• 1200W 80PLUS Gold Power Supply		
Form Factor	• Mid-Tower	Form Factor	Full Tower with rackmount option		









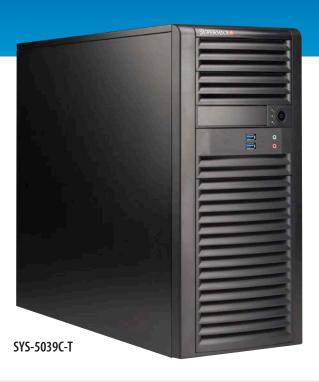




Architecture, Engineering & Construction



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® processor, and enterprise-grade NVMe storage, Supermicro Workstations are fast, reliable, and cost-effective for your business needs.





	SYS-5039C-T For 2D Design	For 3	SYS-5039AD-I BD Modeling and Animation
CPU	Supports Intel* Xeon* E-2200 Processors, up to 5.0Ghz Turbo; up to 8 Cores	CPU	Supports Intel* Core X-Series Processors, up to 4.8Ghz Turbo; up to 18 Cores
Memory	Up to 256GB ECC UDIMM DDR4-29333MHz	Memory	• Up to 256GB non-ECC UDIMM DDR4-29333MHz
Storage	1x M.2 NVMe; 1x U.2 NVMe and 8x SATA ports	Storage	• 2x M.2 NVMe; 1x U.2 and 6x SATA ports
GPU	• Up to 1 GPU	GPU	• Up to 2 GPUs
1/0	<ul> <li>2x USB 2.0 (front)</li> <li>4x USB 3.1 Gen 1 (2x front, 2x rear)</li> <li>2x USB 3.1 Gen 2 (1x rear Type A and 1 rear Type C)</li> <li>7.1 HD Audio</li> </ul>	1/0	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)     1GbE LAN (Intel® i210-AT)	Network	<ul><li>1GbE LAN (Intel® i219LM)</li><li>5GbE LAN (Acquantia AQC108)</li></ul>
Power	500W 80PLUS Bronze Power Supply	Power	• 750W 80PLUS Gold Power Supply
orm Factor	• Mid-Tower	Form Factor	• Mid-Tower









### Artificial Intelligence and Deep Learning

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**

(PII • Supports 1st/2nd Gen Intel® Xeon® SP, or Intel® Xeon® W-3200 processors, up to 4.6Ghz 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")

GPII • Up to 4 GPUs (Active or Passive)

 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)

2200W Redundant 80PLUS Platinum Power Suppl

Form Factor • Full Tower with rackmount option











# **SuperWorkstation**





7 PCI-E slots



Server Level Manageability (PC/Android/iOS)



10G RJ45 LAN



Reinforced PCI-E slots to protect against warping



**Workstation and Gaming** Solutions













Blasting Gaming ATX for Intel Core Processor with Dual LAN



#### **C9Z490-PGW**

Blasting Gaming ATX for Intel Core Processor with Dual LAN & Wi-Fi



#### C9X299-PG300F

Prime OC ATX for Intel Core X Processor with Dual LAN & IPMI

**C9X299-PGF** 

Prime OC ATX for Intel Core X Processor with Dual LAN & IPMI



Prime OC ATX for Intel Core X Processor with Dual LAN & IPMI









www.supermicro.com/superworkstation

10th Gen. Intel® Core™i Processor	10th Gen. Intel® Core™i Processor
PCI-E 3.0 x16 for GPUs double width(16/NA/16/NA, 8/8/8/8)	4 PCIE 3.0 x16 for GPUs double width(16/NA/16/NA, 8/8/8/8)
Max. 128GB DDR4 non-ECC Memory up to 2933~4000 MHz	3X Wi–Fi 6 Wireless LAN
Blasting 20Gb/s USB3.2 Gen.2x2 Type C	Blasting 20Gb/s USB3.2 Gen.2x2 Type C
Lightning Fast 10Gb/s LAN	Lightning Fast 10Gb/s LAN

9th/10th Gen. Intel® Core™ i7 & i9 Extreme X-series Processor	9th/10th Gen. Intel® Core™ i7 & i9 Extreme X-series Processor
3 PCI-E 3.0 x16 for GPUs double width, 1 single width (8/NA/16/16 or 8/8/8/16)	4 PCIE 3.0 x16 for GPUs double width (8/NA/16/16 or 8/8/8/16)
256GB Unbuffered non-ECC UDIMM, DDR4-2933MHz	256GB Unbuffered non-ECC UDIMM, DDR4-2933MHz
2 M.2 +2 U.2 maximum storage expansion	$2\mathrm{M.2} + 2\mathrm{U.2}$ maximum storage expansion
Lightning Fast 10Gb/s LAN	Lightning Fast 5Gb/s LAN

9th/10tl	n Gen. Intel® Core™ i7 & i9 Extreme X-series Processor
	4 PCIE 3.0 x16 for GPUs double width (8/NA/16/16 or 8/8/8/16)
256G	B Unbuffered non-ECC UDIMM, DDR4-2933MHz
	2 M.2 +2 U.2 maximum storage expansion
	Lightning Fast 5Gb/s LAN









**Workstation and Gaming** Solutions





www.supermicro.com/superworkstation

### 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



with Dual LAN & IPMI



with Dual LAN & Wi-Fi









Intel® Xeon™W1200 & 10th Gen. Core™i Processor	Intel® Xeon™W1200 & 10th Gen. Core™i Processor	Intel® Xeon™E2100/2200 & 8/9th Gen. Core™ i Processor	Intel® Xeon™E2100/2200 & 8/9th Gen. Core™ i Processor	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	2 PCI-E 3.0 x16 Slots(metal armor, 16/NA or 8/8) $+$ 1 PCI slot	2 PCI-E 3.0 x16 Slots (metal armor, 16/NA or 8/8) $\pm$ 1 PCI slot	2 PCI-E 3.0 x16 Slots (metal armor, 16/NA or 8/8) $\pm$ 1 PCI slot	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	IPMI with dedicated VGA and LAN ports	Max. 128GB DDR4 ECC/Non ECC Memory up to 2666MHz	IPMI with dedicated VGA ports	1 Gigabit LAN Wi-Fi + Bluetooth 5.0
2 M.2 Optimized Storage Performance, support RAID 0,1	2 M.2 Optimized Storage Performance, support RAID 0,1	2 M.2+ 1 U.2 Optimized Storage Performance	2 M.2+ 1 U.2 Optimized Storage Performance	2 M.2+ 1 U.2 Optimized Storage Performance
Intel®2.5Gb/s LAN support	Intel®2.5Gb/s LAN support	Dual Intel® 1Gb/s LAN support	Dual Intel® 1Gb/s LAN support	Dual Intel® 1Gb/s LAN support









# SUPERMICR

**Workstation and Gaming** Solutions







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

#### X11SPA-T

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



Superior ATX for Intel XeonW Processor with Dual LAN

#### 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



Intel®Xeon™W2100/2200 Processor

3 PCIE 3.0 x16 for GPUs double width (8/16/16)

512GB Unbuffered ECC RDIMM, DDR4-2666MHz



www.supermicro.com/superworkstation

Intel® Xeon™ Scalable Processor for 1S Workstation	Intel® Xeon™ Scalable & W-3200 processors for 1S Workstation	Intel®Xeon™W2100/2200 Processor
4 GPU cards (PCI-E3.0x16) or 7 GPU cards (PCI-E3.0x8)	4 GPU cards(PCI-E3.0x16) or 7 GPU cards (PCI-E3.0x8)	3 PCIE 3.0 x16 for GPUs double width(8/16/16)
Max. 3TB 3DS ECC RDIMM, DDR4-2933MHz	Max. 3TB 3DS ECC RDIMM, DDR4–2933MHz	512GB Unbuffered ECC RDIMM, DDR4-2666MHz
10Gb/s AQC107 and Intel®1Gb/s LAN support	10Gb/s AQC107 and Intel®1Gb/s LAN support	2M.2 +2 U.2 maximum storage expansion
IPMI with dedicated VGA and LAN ports	IPMI with dedicated VGA and LAN ports	Lightning Fast 5Gb/s LAN

Lightning Fast 5Gb/s LAN	
M.2 + 2 U.2 maximum storage expa	nsio





# SUPERMICR

**Workstation and Gaming** Solutions





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#### X11SAT

with Dual LAN, Thunderbolt

X11SAT-F

Preferred ATX for Intel Xeon & Core Processor Preferred ATX for Intel Xeon & Core Processor with Dual LAN, Thunderbolt & IPMI



Superb ATX for Intel Xeon & Core Processor Superb ATX for Intel Xeon & Core Processor with Dual LAN

X11SAE-F

with Dual LAN & IPMI



Superb uATX for Intel Xeon & Core Processor with Dual LAN











			<u> </u>	
Intel*Xeon™E3 1200 v5/6 & 6/7th Gen. Core™i Processor	Intel®Xeon™E3 1200 v5/6 & 6/7th Gen. Core™i Processor	Intel <sup>®</sup> Xeon <sup>™</sup> E3 1200 v5/6 & 6/7th Gen. Core <sup>™</sup> i Processor	Intel <sup>®</sup> Xeon <sup>™</sup> E3 1200 v5/6 & 6/7th Gen. Core <sup>™</sup> i Processor	SFF platform setting for on desk workstation
3 PCI-E 3.0 x16 Slots(16/NA /16 or 16/8/8)+ 1 PCI slot	3 PCI-E 3.0 x16 Slots(16/NA /16 or 16/8/8)+ 1 PCI slot	$2 \text{ PCI-E } 3.0 \times 16 \text{ Slots} (16/\text{NA or } 8/8) + 2 \text{ PCI slot}$	2  PCI-E  3.0  x 16  Slots (16/NA or  8/8) + 2  PCI slot	Intel <sup>™</sup> Xeon <sup>™</sup> E3 1200 v5/6 & 6/7th Gen. Core <sup>™</sup> i Processor
M.2 Optimized Storage Performance	M.2 Optimized Storage Performance	4 DDR4 ECC/Non-ECC UDIMMs, up to 64GB, 2400MHz	IPMI with dedicated VGA ports	1 PCI-E 3.0 x16 + 1 PCI slots
Dual Intel® 1Gb/s LAN support	IPMI with dedicated VGA ports	M.2 Optimized Storage Performance	M.2 Optimized Storage Performance	M.2 Optimized Storage Performance
Thunderbolt 2.0 USB typeC output	Thunderbolt 2.0 USB typeC output	Dual Intel® 1Gb/s LAN support	Dual Intel® 1Gb/s LAN support	Dual Intel® 1Gb/s LAN support









**Workstation and Gaming** Solutions





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C7C242-CB-M

Versatile uATX

for Intel Xeon & Core Processor

C7C242-CB-MW

Versatile uATX

for Intel Xeon & Core Processor with Wi-Fi

731

732

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

GS5

Cost-effective mini-tower for business desktop or server

Classic mid-tower for business desktop or workstation



Supports up to E-ATX motherboard

4 x 3.5" Internal; 2 x 5.25" External drive bays; 4x 2.5" drive bays (optional)

Different I/O and power supply options are available

Removable 3.5" and 2.5" HDD/SSD cages with tool-less trays for up to 10 drives

Cable management holes with rubber grommets for clean builds

3 x 120mm PWM high airflow fans included

Supports closed-loop water cooling units

Intel®Xeon™ E2100/2200 and 8/9th Gen. Core™i Processor

1 PCIE 3.0 x16 for for double-width GPU

3 PCIE 3.0 x1 slots



Intel®Xeon™ E2100/2200 and 8/9th Gen. Core™i Processor

1 PCIE 3.0 x16 for for double-width GPU

1 Gb/s Wi-Fi/BT 5.0

Supports m-ATX motherboard 4 x 3.5" Internal; 2 x 5.25" External drive bays Different I/O and power supply options are available 1x Rear 9cm (2050 RPM) PWM exhaust fan

1x Rear 12cm (1850 RPM) PWM exhaust fan; front 12cm intake fan (optional) Dimensions (HxWxD):

Dimensions (HxWxD): 18.1"(460 mm) x 7.9"(200 mm) x 19.4"(493 mm) 16.7" (424 mm) x 7.6" (193 mm) x 20.68" (525 mm)

ECC/Non-ECC UDIMMs up to 128GB ECC/Non-ECC UDIMMs up to 128GB 1 M.2 2280/22110 1 M.2 2280/22110





Dimensions (HxWxD):





743

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, 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) 745

Versatile rackmountable full-tower with redundant power supplies for high-performance workstation or server



Highly expandable rackmountable full-tower with redundant power supplies for **GPU** 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)

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): 18.2" (462 mm) x 7" (178 mm) x 26.5" (673 mm)







## Better, Faster, Greener,

Expect Better Datacenter Performance, TCO & Impact on the Environment



#### Systems featuring 2<sup>nd</sup> Gen Intel® Xeon® Scalable processors

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 timeto-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.



Supermicro\*, the leading innovator in high-performance, high-efficiency server technology is a premier provider of advanced server Building Block Solutions' for Datacenter, Cloud Computing, Enterprise IT, Hadoop/Big Data, HPC and Embedded Systems worldwide. Supermicro is committed to protecting the environment through its "We Keep IT Green" initiative and provides customers with the most energy-efficient, environmentally-friendly solutions available on the market.

Learn more at www.supermicro.com

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