Supermicro Rackmount Servers
Best Performance, Cost and Efficiency

Transform Your Data Center TCO with Supermicro servers based on the 2nd generation Intel® Xeon® Scalable processors
### All-NVMe Ultra
- **Flagship Performance for the Most Demanding Workloads**
- High density all-NVMe storage in 1U and 2U
- Dual 2nd gen Intel® Xeon® Scalable processors
- 24 DIMM slots, Intel® Optane™ DCPMM support
- Up to 20 NVMe (7mm z-height) in 1U / 24 NVMe in 2U
- Onboard networking options up to 25G Ethernet

### Hyper-Speed Ultra
- **Optimized for Extreme Low-Latency Applications**
- Latency optimized components and firmware
- Up to dual 2nd gen Intel® Xeon® Gold 6254 processors
- 16 DDR4 DIMM slots, Intel® Optane™ DCPMM support
- 8 hot-swap 2.5" SAS3 and 2 NVMe drives
- Onboard networking options up to 1G Ethernet networking

### 1U Ultra
- **Performance and Reliability for Enterprise Applications**
- Up to 10x 2.5" or 4x 3.5" hot-swap drives
- Dual 2nd generation Intel® Xeon® Scalable processors, up to 205W TDP
- 24 DDR4 DIMM slots (up to 6TB memory with 256GB DIMMs), Intel® Optane™ DCPMM support
- SATA3, SAS3, NVMe hybrid storage configurations
- Onboard 4x 1G, 2x 10G, 4x 10G, 2x 25G Ethernet networking options

### 2U Ultra
- **More I/O Expansion for Higher Flexibility**
- Up to 24x 2.5" or 12x 3.5" hot-swap drives
- SATA3, SAS3, NVMe hybrid storage configurations
- Onboard networking options up to 25G Ethernet networking options

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Learn more on page 18 or scan the QR code

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Supermicro Ultra SuperServer®

Supermicro Ultra SuperServers are designed to deliver the highest performance, flexibility, scalability and serviceability to demanding IT environments, and to power mission-critical enterprise workloads, including support for the 2nd generation Intel® Xeon® scalable processors and a new class of big, affordable memory – Intel® Optane™ DC persistent memory. The Intel® Ultra Path Interconnect (UPI) and Cross Bar technologies which provide direct communication between two CPUs in a dual socket server to catapult performance and dramatically reduce latency.

Available in 1U and 2U form factors, Ultra SuperServers support up to 6TB DDR4-2933MHz memory in 24 DIMMs; SATA3 with optional SAS3 and NVMe support for increased storage bandwidth; a variety of Ultra Riser options, including built-in 1G, 10G and 25G Ethernet options; support for add-on SAS3 HW/SW RAID controllers and additional PCI-E 3.0 slots. The range is the perfect fit for diverse workloads and applications and can be easily reconfigured for multiple Enterprise and Data Center applications in Virtualization, Big Data, Analytics and Cloud Computing.

HIGHEST PERFORMANCE AND FLEXIBILITY FOR ENTERPRISE APPLICATIONS

- NEW! Support for Dual, 2nd generation Intel® Xeon® Scalable processors up to 205W TDP
- NEW! Support for Intel® Optane™ DC persistent memory modules (DCPMM)
- Up to 6TB DDR4-2933MHz memory in 24 DIMM slots
- Redundant Titanium Level (96%) power supplies
- Hot-swap NVMe/SAS3/SATA3 drive bays
- Up to 8/4 PCI-E 3.0 expansion slots
- 25/10G Ethernet

More details are available on the web.
Ultra All-NVMe Series

FLAGSHIP PERFORMANCE FOR THE MOST DEMANDING WORKLOADS

1U/2U systems supporting dual processors with 24 DIMM slots
All-NVMe storage design to support up to 24x 2.5” or 4x 3.5” U.2 drives
Up to dual 25G Ethernet and rich PCI-E expansion options

Ultra All-NVMe Series

1U/2U Rackmount

- Up to 12x 2.5” or 4x 3.5” drive bays in 1U,
- Up to 24x 2.5” or 12x 3.5” drive bays in 2U

2-Socket

- Up to Dual 2nd Gen Intel® Xeon® Scalable processors, up to 24x LFF drive bays

24 DIMM Slots

- Up to Dual 2nd Gen Intel® Xeon® Scalable processors, up to 24x LFF drive bays

NVMe/SAS3/SATA3

- SAS3 support via AOC*

Input/Output

- Flexible networking via Ultra Riser adapters* with dedicated IPMI/LOA port

Titanium Level

- Up to redundant 1600W high-efficiency digital power supplies

Ultra All-NVMe Series

- All-NVMe storage design to support up to 24x 2.5” or 4x 3.5” U.2 drives
- Up to dual 25G Ethernet and rich PCI-E expansion options

2U Ultra 2x 2.5” Drive Bays

2.5” (7mm thick) Hot Swap Drive Bays

2U Ultra 24x 2.5” Drive Bays

24 DIMM Slots DDR4

2U Ultra 24x 2.5” Drive Bays

2.5” Hot Swap Drive Bays

2U Ultra 24x 2.5” (7mm thick) Drive Bays

1U Ultra 20x 2.5” (7mm thick) Drive Bays

1U/2U systems supporting dual processors with 24 DIMM slots
All-NVMe storage design to support up to 24x 2.5” or 4x 3.5” U.2 drives
Up to dual 25G Ethernet and rich PCI-E expansion options

*For SAS AOC (add-on card) options, please refer to page 25
## Ultra Hyper-Speed Series

Optimized for extreme low-latency applications

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<td>Hot-Swap Drive Bays</td>
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<td>I/O</td>
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<td>ECC DDR4-2933</td>
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<td>Input/Output</td>
<td>Up to 2x1Gbps Ethernet 2033</td>
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<tr>
<td>Power Supply</td>
<td>Platinum level up to redundant 750W high-efficiency</td>
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**Optimized for Extreme Low-Latency Applications**

Ultra Hyper-Speed Series 1U systems supporting dual processors with 16 DIMM slots

- Hot-swap 12x 2.5” drive bays supporting NVMe and SAS3 options

- 1U Rackmount 10x 2.5” hot-swap drive bays

- 2-Socket Dual 2nd gen Intel® Xeon® Gold processors included

- 16 DIMM Slots DDR4-2933, 12x 16GB included

- Up to redundant 750W high-efficiency digital power supplies

5th gen Hyper-Speed & HyperTurbo Technologies for Extreme Low-Latency Trading
Ultra 1U Series
PERFORMANCE AND RELIABILITY FOR ENTERPRISE APPLICATIONS

- 24 DIMM Slots DDR4
- Redundant Platinum Level Power Supplies Up to 750W
- 2 USB 3.0 Ports
- Up to Dual 2nd Gen Intel® Xeon® Scalable Processors
- 8 System Fans
- 2.5" Hot-Swap Drive Bays
- 24.5" Chassis Depth
- 4 PCI-E 3.0 Slots
- Versatile storage options with up to 12x 2.5" or 4x 3.5" drives
- Up to Dual 25G Ethernet and extraordinary PCI-E expansion capabilities
- 10x 2.5" Drive Bays
- 4x 3.5" Drive Bays
- 1U Rackmount
- NVMe/SAS3/SATA3
- Optional U.2 and M.2 NVMe support*
- SAS support via AOC**
- Up to 2nd gen Intel® Xeon® Scalable processors; up to 205W TDP
- Flexible networking up to dual 25GbE via Ultra Riser adapters with dedicated IPMI LAN port; Rich PCI-E expansion options including double-wide GPU support;
- Up to 6TB ECC memory with 256GB DIMMs, up to DDR4-2933MHz; Intel® Optane™ DCPMM support available
- Up to redundant 750W high-efficiency digital power supplies
- * All drive bays support SATA interface; NVMe and SAS3 support are optional and may require the purchase of additional kit to enable
- ** For SAS AOC (add-on card) options, please refer to page 25
Ultra 2U Series

MORE I/O EXPANSION FOR HIGHER FLEXIBILITY

2U systems supporting dual processors with 24 DIMM slots
Versatile storage options with up to 24x 2.5” or 12x 3.5” drives
Up to dual 25G Ethernet and extraordinary PCI-E expansion capabilities

Ultra 24x 2.5” Drive Bays

24 DIMM Slots

12x 3.5” Drive Bays

2U Rackmount

2-Socket

Up to dual 2nd Gen Intel® Xeon® Scalable processors, up to 205W TDP

Flexible networking up to dual 25GbE via Ultra Riser adapters with dedicated IPMI LAN port; Rich PCI-E expansion options including double-wide GPU support;

Up to 6TB ECC memory with 256GB DIMMs, up to DDR4-2933MHz; Intel® Optane™ DCPMM support available

Optional U.2 and M.2 NVMe support*; SAS3 support via AOC***

Input/Output

2U Rackmount

Optional U.2 and M.2 NVMe support*; SAS3 support via AOC***

STORAGE

MEMORY

CPU

FORM-FACTOR

2U

2U Ultra 24x 2.5” Drive Bays

24x 2.5” Drive Bays

12x 3.5” Drive Bays

4 System Fans

Upto 8 PCIe 3.0 Slots

Ultra 2U Series

MORE I/O EXPANSION FOR HIGHER FLEXIBILITY

2U systems supporting dual processors with 24 DIMM slots
Versatile storage options with up to 24x 2.5” or 12x 3.5” drives
Up to dual 25G Ethernet and extraordinary PCI-E expansion capabilities

Ultra 24x 2.5” Drive Bays

24 DIMM Slots

12x 3.5” Drive Bays

2U Rackmount

2-Socket

Up to dual 2nd Gen Intel® Xeon® Scalable processors, up to 205W TDP

Flexible networking up to dual 25GbE via Ultra Riser adapters with dedicated IPMI LAN port; Rich PCI-E expansion options including double-wide GPU support;

Up to 6TB ECC memory with 256GB DIMMs, up to DDR4-2933MHz; Intel® Optane™ DCPMM support available

Optional U.2 and M.2 NVMe support*; SAS3 support via AOC***

Input/Output

2U Rackmount

Optional U.2 and M.2 NVMe support*; SAS3 support via AOC***

STORAGE

MEMORY

CPU

FORM-FACTOR

2U
Supermicro Max IO solutions are resource optimized, cost-effective and ideal for space-constrained applications. Supermicro’s highly dense yet compact server designs provide excellent compute, networking, storage and I/O expansion. These server designs utilize Supermicro optimized thermal designs to save energy, operate at lower decibels and minimize system power consumption. Several models provide redundant power and cooling options and run at an extended temperature range. Supermicro’s high quality assures reliable, long life and uninterrupted operation.

Supermicro Max IO SuperServer®

APPLICATION OPTIMIZED AND I/O MAXIMIZED FOR SPACE-CONSTRAINED APPLICATIONS

Max IO SuperServer®

APPLICATION OPTIMIZED AND I/O MAXIMIZED FOR SPACE-CONSTRAINED APPLICATIONS

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2U and 3U systems supporting dual processors and 16 DIMM slots

Highest I/O expansion capability with up to 11 PCI-E 3.0 slots

Hot-swappable 2.5 and 3.5” drive bays and up to two 5.25” peripheral bays

APPLICATION OPTIMIZED AND I/O MAXIMIZED FOR SPACE-CONSTRAINED APPLICATIONS

2U 16x 2.5” Drive Bays

3U 8x 3.5” Drive Bays

16 DIMM Slots

Up to 2nd gen Intel® Xeon® Scalable processors; up to 205W TDP

Dual 10GbE with dedicated IPMI LAN port; 1 PCI-E 3.0 x4 slot, 4 PCI-E 3.0 x16 slots (or 2 PCI-E 3.0 x8 slots, 4 PCI-E 3.0 x16 slots (or 2 PCI-E 3.0 x8 slots, 1 PCI-E 3.0 x8 slot

Up to 4TB ECC memory with 256GB DIMMs, up to DDR4-2933MHz; Intel® Optane™ DCPMM support available

Up to redundant 1000W high-efficiency digital power supplies

SAS3/SATA3

SA33 support via AOC*; 1 PCIe x8 and 1 PCIe x4 slot

Input/Output

Dual 10GBe with dedicated IPMI LAN port; 1 PCI-E 3.0 x4 slot, 1 PCI-E 3.0 x4 slot (up to PCIe 3.0 x8), 1 PCI-E 3.0 x8 slot, 1 PCI-E 3.0 x8 slot

Up to Titanium Level

Up to redundant 100W high-efficiency digital power supplies

Supermicro Max IO SuperServer®

APPLICATION OPTIMIZED AND I/O MAXIMIZED FOR SPACE-CONSTRAINED APPLICATIONS

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APPLICATION OPTIMIZED AND I/O MAXIMIZED FOR SPACE-CONSTRAINED APPLICATIONS

2U 16x 2.5” Drive Bays

3U 8x 3.5” Drive Bays

16 DIMM Slots

Up to 2nd gen Intel® Xeon® Scalable processors; up to 205W TDP

Dual 10GbE with dedicated IPMI LAN port; 1 PCI-E 3.0 x4 slot, 4 PCI-E 3.0 x16 slots (or 2 PCI-E 3.0 x8 slots, 4 PCI-E 3.0 x16 slots (or 2 PCI-E 3.0 x8 slots, 1 PCI-E 3.0 x8 slot

Up to 4TB ECC memory with 256GB DIMMs, up to DDR4-2933MHz; Intel® Optane™ DCPMM support available

Up to redundant 1000W high-efficiency digital power supplies

SAS3/SATA3

SA33 support via AOC*; 1 PCIe x8 and 1 PCIe x4 slot

Input/Output

Dual 10GBe with dedicated IPMI LAN port; 1 PCI-E 3.0 x4 slot, 1 PCI-E 3.0 x4 slot (up to PCIe 3.0 x8), 1 PCI-E 3.0 x8 slot, 1 PCI-E 3.0 x8 slot

Up to Titanium Level

Up to redundant 100W high-efficiency digital power supplies

Supermicro Max IO SuperServer®

APPLICATION OPTIMIZED AND I/O MAXIMIZED FOR SPACE-CONSTRAINED APPLICATIONS

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2U and 3U systems supporting dual processors and 16 DIMM slots

Highest I/O expansion capability with up to 11 PCI-E 3.0 slots

Hot-swappable 2.5 and 3.5” drive bays and up to two 5.25” peripheral bays

APPLICATION OPTIMIZED AND I/O MAXIMIZED FOR SPACE-CONSTRAINED APPLICATIONS

2U 16x 2.5” Drive Bays

3U 8x 3.5” Drive Bays

16 DIMM Slots

Up to 2nd gen Intel® Xeon® Scalable processors; up to 205W TDP

Dual 10GbE with dedicated IPMI LAN port; 1 PCI-E 3.0 x4 slot, 4 PCI-E 3.0 x16 slots (or 2 PCI-E 3.0 x8 slots, 4 PCI-E 3.0 x16 slots (or 2 PCI-E 3.0 x8 slots, 1 PCI-E 3.0 x8 slot

Up to 4TB ECC memory with 256GB DIMMs, up to DDR4-2933MHz; Intel® Optane™ DCPMM support available

Up to redundant 1000W high-efficiency digital power supplies

SAS3/SATA3

SA33 support via AOC*; 1 PCIe x8 and 1 PCIe x4 slot

Input/Output

Dual 10GBe with dedicated IPMI LAN port; 1 PCI-E 3.0 x4 slot, 1 PCI-E 3.0 x4 slot (up to PCIe 3.0 x8), 1 PCI-E 3.0 x8 slot, 1 PCI-E 3.0 x8 slot

Up to Titanium Level

Up to redundant 100W high-efficiency digital power supplies

Supermicro Max IO SuperServer®

APPLICATION OPTIMIZED AND I/O MAXIMIZED FOR SPACE-CONSTRAINED APPLICATIONS

Max IO SuperServer®

APPLICATION OPTIMIZED AND I/O MAXIMIZED FOR SPACE-CONSTRAINED APPLICATIONS

Supermicro Max IO solutions are resource optimized, cost-effective and ideal for space-constrained applications. Supermicro’s highly dense yet compact server designs provide excellent compute, networking, storage and I/O expansion. These server designs utilize Supermicro optimized thermal designs to save energy, operate at lower decibels and minimize system power consumption. Several models provide redundant power and cooling options and run at an extended temperature range. Supermicro’s high quality assures reliable, long life and uninterrupted operation.

2U and 3U systems supporting dual processors and 16 DIMM slots

Highest I/O expansion capability with up to 11 PCI-E 3.0 slots

Hot-swappable 2.5 and 3.5” drive bays and up to two 5.25” peripheral bays

APPLICATION OPTIMIZED AND I/O MAXIMIZED FOR SPACE-CONSTRAINT
The Mainstream Application Optimized SuperServer® product family from Supermicro is a series of servers designed for entry level or volume selections. Enterprise IT Managers can choose the exact model for their applications, with a precise set of integrated features needed for their applications.

1U, 2U and 4U tower systems supporting single or dual processors
1-socket and 2-socket models for optimal efficiency and performance
Hot-swappable 2.5" and 3.5" SAS3/SATA3 storage options

Mainstream SuperServer®
BEST PERFORMANCE, COST AND ENERGY EFFICIENCY FOR MAINSTREAM APPLICATIONS
DCO SuperServer®
ENTRY LEVEL AND VOLUME SERVERS FOR EVERY DATA CENTER

The new generation X11 Supermicro Data Center Optimized SuperServer® product family is designed to deliver the best performance-per-watt and per-dollar to the modern data center. Improved thermal architecture that utilizes power efficient components, offset processor placement to help eliminate CPU preheating, and highest-efficiency power supplies to allow higher operating temperatures, enable this product line to perfectly align with complex requirements and complement energy efficiency data center design in order to achieve lower Total Cost of Ownership (TCO).

1U systems supporting dual processors with 8 DIMM slots
Hot-swappable 2.5” or 3.5” SATA3 storage options
Onboard dual Gigabit Ethernet for optimized cost effectiveness

- Short-Depth Chassis
  - Choice of 8x 2.5” or 4x 3.5” hot-swap drive bays

- 2-Socket
  - Up to 4x 10th Gen Intel® Xeon® processors, up to 140W TDP

- 8 DIMM Slots
  - Up to 2TB ECC memory with 256GB DIMMs, up to DDR4-2933MHz

- SATA3 Storage
  - Optional PCIe/RAID storage support
  - SAS3 support via AOC*

- Input/Output
  - Dual Gigabit Ethernet (4x RJ45) with dedicated iKVM RJ45 port
  - 1 PCI-E 3.0 x8 (FHHL) slot

- Platinum Level
  - Up to redundant 800W high efficiency digital power supplies

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*S for SAS AOC (add-on card) options, please refer to page 25
Supermicro WIO SuperServer® 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.

- **1U 2-Socket 8x 2.5” Drive Bays**
- **1U 2-Socket 8x 3.5” Drive Bays**
- **1U 1-Socket 4x 3.5” Drive Bays**

Cost-effective systems supporting up to 3/6 PCI-E devices in 1U/2U

Hot-swappable 2.5” or 3.5” SATA3 storage with AOM slot for SAS3 support

Onboard networking options for up to dual 10 Gigabit Ethernet

- **STORAGE**
  - Up to 10x 2.5” or 8x 3.5” hot-swap drive bays in 1U, up to 12x 3.5” hot-swap drive bays in 2U
  - Hot-swappable 2.5” or 3.5” SATA3 storage with AOM slot for SAS3 support

- **MEMORY**
  - Up to 12 DIMM Slots
  - Up to 3TB ECC memory with 256GB DRAM, up to 24GB 2933MHz; Intel® Optane™ DCPMM support available

- **CPU**
  - Up to 2nd gen Intel® Xeon® Scalable processors; up to 205W TDP

- **I/O**
  - Dual 10GbE RJ45 LAN ports with dedicated IPMI LAN port
  - Up to 3 PCI-E 3.0 slots in 1U and 6 slots in 2U, dedicated AOM slot for SAS support

- **POWER SUPPLY**
  - Up to redundant 1200W high-efficiency digital power supplies

- **1 or 2-Socket Input/Output**
  - Up to Titanium Level

- **Front and Top-loading**
  - Up to 12 DIMM Slots
  - Up to 3TB ECC memory with 256GB DRAM, up to 24GB 2933MHz; Intel® Optane™ DCPMM support available

- **NVMe/SAS3/SATA3**
  - Hybrid backplane supporting SAS3 via optional AOM and 2 hybrid NVMe/SATA3 ports; 1 PCI-E x 4 M.2 2 slot
The Ultra Riser add-on cards are designed for Supermicro® Ultra SuperServer® family, that increase cost savings and flexibility to select networking options from 1G to 25G Ethernet through a Supermicro optimized form factor that is easy to scale, service and manage. Ultra Riser add-on cards are available only when purchased with a system, please contact your Supermicro sales representative for more details.

For more product information and technical specifications, please visit supermicro.com or scan the QR code to retrieve the complete list of options and system compatibility.

**Ultra Riser add-on cards feature up to 16 internal SAS ports for high-performance storage applications. It addresses the growing demand for increased data throughput and scalability requirement across the enterprise-class server platforms and delivers cost effective storage solutions using SATA3 drives and maximum performance and reliability with SAS3 drives.**

Mini-SAS cables may be required to purchase separately. For more product information and technical specifications, please visit supermicro.com or scan the QR code on the right to retrieve the complete list of options and verify your system compatibility.

### Ultra Riser NETWORKING OPTIONS

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<td>AOC-UR92-i2XT</td>
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<td>AOC-UR94-m2TS</td>
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<tr>
<td>AOC-UR92-i2XT</td>
<td>AOC-UR92-i2K</td>
<td>AOC-UR94-m2TS</td>
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### SAS3 Storage NETWORKING OPTIONS

Supermicro SAS3 add-on cards feature up to 16 internal SAS ports for high-performance storage applications. It addresses the growing demand for increased data throughput and scalability requirement across the enterprise-class server platforms and delivers cost effective storage solutions using SATA3 drives and maximum performance and reliability with SAS3 drives. Mini-SAS cables may be required to purchase separately. For more product information and technical specifications, please visit supermicro.com or scan the QR code on the right to retrieve the complete list of options and verify your system compatibility.

#### SAS Host Bus Adapters in IT Mode

- AOC-S3616-L16iT
- AOC-S3216-L16iT
- AOC-S3008-L8e
- AOC-S3108-H8R-16DD
- AOC-S3108-H8R
- AOC-S3008-L8i

#### SAS RAID Adapters

- Broadcom® SAS 3616
- Broadcom® SAS 3216
- Broadcom® SAS 3008
- Broadcom® SAS 3108
- Broadcom® SAS 3008

- 16 ports, 12Gb/s per port, 16 Internal, Low Profile, 528 SAS Drives
- 16 ports, 12Gb/s per port, 16 Internal, Low Profile, 128 SATA/SAS Drives
- 8 ports, 12Gb/s per port, 16 Internal, Low Profile, 16 SAS Drives
- 8 ports, 12Gb/s per port, 16 Internal, Low Profile, 48 SATA/SAS Drives
- 8 ports, 12Gb/s per port, 16 Internal, Low Profile, 240 SATA/SAS Drives
- 8 ports, 12Gb/s per port, 16 Internal, Low Profile, 63 SATA/SAS Drives
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.

Supermicro Worldwide

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