Supermicro A+ Servers
Outstanding Performance Drives Business Agility
H12 Generation A+ Servers

Choose from the most comprehensive line of servers, GPU and blade systems in the industry.

- Up to 64 cores/128 threads per socket with AMD EPYC™ 7002 series processors
- Up to 32 DIMMs of DDR4-3200MHz memory for up to 8TB per system
- Increased I/O throughput with PCI-E 4.0 and up to 128 lanes per socket
- Hot-pluggable U.2 NVMe storage for better application responsiveness
- 3-Year Limited Warranty and 24-Hour Technical Support

Up to 64 cores/128 threads per socket with AMD EPYC™ 7002 series processors

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- Increased I/O throughput with PCI-E 4.0 and up to 128 lanes per socket
- Hot-pluggable U.2 NVMe storage for better application responsiveness
- 3-Year Limited Warranty and 24-Hour Technical Support
### Form Factor
- 1U rackmount
- 2U rackmount

### Processor Support
- Dual Socket SP3 for AMD EPYC™ 7002 Series processors, up to 128 cores, up to 280W TDP†
- Dual Socket SP3 for AMD EPYC™ 7002 Series processors, up to 128 cores, up to 280W TDP

### Memory Slots & Capacity
- 32 DIMM slots, DDR4-3200MHz; up to 8TB Reg. ECC
- 32 DIMM slots, DDR4-3200MHz; up to 8TB Reg. ECC

### Expansion Slots
- 2 PCI-E 4.0 x16 (FH/9.5”L) slots
- 1 PCI-E 4.0 x16 (proprietary designed for internal LP slot)
- 1 PCI-E 4.0 x16 slot

### Storage
- 12 hot-pluggable 2.5” U.2 NVMe (PCI-E 4.0) drive bays
- Optional support for SAS3 and SATA
- 24 hot-pluggable 2.5” U.2 NVMe (PCI-E 4.0) drive bays
- Optional support for SAS3 and SATA

### I/O Ports
- 2 RJ45 and 2 SFP+ 10G Ethernet ports
- 1 built-in VGA port
- 4 USB 3.0 ports (2 rear; 1 front + 1 Type A)
- 2 RJ45 and 2 SFP+ 10G Ethernet ports
- 1 built-in VGA port
- 3 USB 3.0 ports (2 rear, 1 Type A)

### System Management
- Built-in server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
- Built-in server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

### System Cooling
- 8x 40x56mm fans w/ Optimal Fan Speed Control
- 4x 80x80x38mm fans w/ Optimal Fan Speed Control

### Power Supply
- Redundant 1200W Titanium Level PSU††
- Redundant 1600W Titanium Level PSU††

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**Supermicro A+ Ultra Servers**

Industry Leading IOPS, Energy Efficiency, and Flexibility

- Optimized for highest processor TDPs
- 32 DIMM slots for up to 8TB
- All hot-pluggable PCIe 4.0 U.2 NVMe

**HIGHEST PERFORMANCE A+ ULTRA SERVERS**

Supermicro A+ Ultra systems 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 dual 2nd Generation AMD EPYC™ processors and 32 DIMMs of DDR4-3200MHz memory for up to 8TB of capacity.

- Uncompromised performance design with 2 CPU sockets and 32 memory slots optimized for supporting the highest processor TDPs
- Best-in-class storage features including all NVMe, optional SAS3, and low latency optimizations
- Vast networking and expansion possibilities with Ultra Riser cards

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† Certain high TDP CPUs may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization.

†† Full redundancy based on configuration and application load.
A+ Ultra Servers
Industry Leading IOPS, Energy Efficiency, and Flexibility

- Optimized for highest processor TDPs
- Hot-pluggable 3.5" SATA drive bays (SAS optional)
- Up to 4 low-profile GPUs on 2U system

Highest Performance A+ Ultra Servers
Supermicro A+ Ultra systems 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 dual 2nd Generation AMD EPYC™ processors and 32-128GB of DDR4-3200MHz memory for up to 8TB of capacity.

- Uncompromised performance design with 2 CPU sockets and 32 memory slots optimized for supporting the highest processor TDPs
- Best-in-class server features including all NVMe, hybrid storage and low latency optimizations
- Vast networking and expansion possibilities with Ultra Riser cards
- Hot-pluggable 3.5” SATA drive bays
- Optional support for SAS3 and U.2 NVMe
- Up to 4 low-profile GPUs on 2U system

System Management
- Built-in server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
- Built-in server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

System Cooling
- 8x 40x56mm fans w/ Optimal Fan Speed Control
- 4x 80x80x38mm fans w/ Optimal Fan Speed Control

Power Supply
- Redundant 1000W Titanium Level PSUs††
- Redundant 1600W Titanium Level PSUs††

† Certain high TDP CPUs may be supported only under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimizations.
†† Full redundancy based on configuration and application load.
A+ GPU System
Maximum Acceleration for AI / Deep Learning and HPC

- Up to 8 full-height double-wide GPUs
- Direct-attach PCI-E 4.0 x16 CPU-to-GPU lanes
- Flexible AIOM/OCP 3.0 networking for up to 100G

MAXIMUM ACCELERATION A+ GPU SYSTEM
Supermicro A+ GPU system 4124G-TNR is a new AMD EPYC-based AI and Deep Learning platform designed to extract maximum performance and return of investment from standard PCI-E based GPUs. Supporting up to 8 double-wide or single-wide GPU cards, each CPU socket on the system provides four direct CPU-to-GPU PCI-E 4.0 x16 slots for lowest latency and highest bandwidth. An additional three PCI-E 4.0 x8 slots or two PCI-E 4.0 x16 slots are configurable for a variety of usage cases, including extra HPC networking connectivity or storage expansion opportunities.

**A+ GPU System 4124G-TNR**

- Up to 8 full-height double-wide GPUs
- Direct-attach PCI-E 4.0 x16 CPU-to-GPU lanes
- Flexible AIOM/OCP 3.0 networking for up to 100G
**New!**

**Form Factor**
- 1U rackmount

**Processor Support**
- Single Socket SP3 for AMD EPYC™ 7002 Series processors, up to 64 cores, up to 280W TDP

**Memory Slots & Capacity**
- 8 DIMM slots, DDR4-3200MHz; up to 2TB Reg. ECC

**Expansion Slots**
- 2 PCI-E 4.0 x16 (FHHL) slots
- 1 PCI-E 4.0 x16 (LP) slot

**Storage**
- 10 hot-pluggable 2.5” SATA3 drive bays
- 2 M.2 NVMe/SATA3 slots
- Optional 4 U.2 NVMe (PCI-E 3.0) drive support via additional kit for NVMe devices

**I/O Ports**
- 2 RJ45 10G Ethernet ports
- 1 built-in VGA port
- 7 USB 3.0 ports (4 rear, 2 front, 1 Type A)

**System Management**
- Built-in server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port

**System Cooling**
- 4 counter-rotating 4cm PWM fans, 2 fans for AOC

**Power Supply**
- Redundant 500W Platinum Level PSUs

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**I/O OPTIMIZED A+ WIO SERVERS**

Supermicro A+ 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, A+ WIO servers also provide attractive cost advantages and investment protection.

- Best single-socket I/O configurability with 8 or 16 DIMMs
- Up to 10 U.2 NVMe and dual onboard 10GbE
- Redundant high-efficiency Platinum Level power supplies

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**Learn More**

![Image Link]
## NO-COMPROMISES 2U 4-NODE ARCHITECTURE

BigTwin is the 5th generation in the Supermicro Twin Family with a multitude of innovations and engineering breakthroughs. Historically multi-node systems traded off features and capacity for higher density. They were deployed for workloads that did not require the highest performance or the highest memory density on a single node.

TwinPro systems are designed for simplified deployment and maintenance, and assembled with the highest quality to ensure continuous operation even at maximum capacity. Customers in high-end enterprise, data center, HPC, and Cloud Computing environments receive the greatest competitive advantage from data center resources with the Supermicro TwinPro.

### Key Features

- Highly configurable 2U 4-node systems
- 2-node with 16 DIMMs or 1-node with 8 DIMMs per node
- Flexible storage and I/O options including NVMe/SATA3 and SIOI networking

### Form Factor

- **HTR**: 2U 4-node rackmount
- **HNTR**: 2U 4-node rackmount

### Processor Support

- **HTR**: Single Socket SP3 for AMD EPYC™ 7002 Series processors
- **HNTR**: Dual Socket SP3 for AMD EPYC™ 7002 Series processors

### Memory Slots & Capacity

- **HTR**: 8 DIMM slots per node, DDR4-3200MHz; up to 2TB Reg. ECC
- **HNTR**: 16 DIMM slots per node, DDR4-3200MHz; up to 4TB Reg. ECC

### Expansion Slots

- **HTR**: 2 PCI-E 4.0 x16 (LP) slot per node
- **HNTR**: 2 PCI-E 4.0 x16 (LP) slot per node

### Storage

- **HTR**: 3 hot-pluggable 3.5" SATA3 drive bays per node
- **HNTR**: 6 hot-pluggable 2.5" SATA3 drive bays per node

### I/O Ports (per node)

- **HTR**: Flexible SIOM networking options (see page 23)
- **HNTR**: Flexible SIOM networking options (see page 23)

### System Management

- **HTR**: Built-in server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port per node
- **HNTR**: Built-in server management tool (IPMI 2.0) over LAN with dedicated LAN port per node

### Power Supply

- **HTR**: Redundant 2200W Titanium Level PSUs
- **HNTR**: Redundant 2200W Titanium Level PSUs

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**Learn More**

<table>
<thead>
<tr>
<th>Model</th>
<th>1-Node</th>
<th>2-Node</th>
<th>3-Node</th>
<th>4-Node</th>
</tr>
</thead>
<tbody>
<tr>
<td>HTR</td>
<td>1 CPU</td>
<td>2 CPU</td>
<td>2 CPU</td>
<td>2 CPU</td>
</tr>
<tr>
<td>HNTR</td>
<td>1 CPU</td>
<td>2 CPU</td>
<td>2 CPU</td>
<td>2 CPU</td>
</tr>
</tbody>
</table>

† Certain CPUs with high TDP may be supported under specific conditions. Please contact Supermicro Technical Support for additional information about specialized system optimization.
Versatile Entry-Level Servers for Mainstream Applications

The A+ Mainstream Application Optimized 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.

H11DSi E-ATX Serverboard

(Optimized for the tower system shown on the left and can be purchased separately)

\[ \text{H11DSi E-ATX Serverboard} \]

AS -1013S-MTR

AS -2013S-C0R

AS -4023S-TRT

AS -4023S-TRT

AS -4025S-TTR

Form Factor

• 1U rackmount

• 2U rackmount

• 4U rackmount / tower

Processor Support

• Single Socket SP3 for AMD EPYC™ 7002 Series processors, up to 64 cores, up to 225W TDP †

• Single Socket SP3 for AMD EPYC™ 7002 Series processors, up to 64 cores, up to 225W TDP †

• Dual Socket SP3 for AMD EPYC™ 7002 Series processors, up to 128 cores, up to 225W TDP †

Memory Slots & Capacity

• 8 DIMM slots, DDR4-3200MHz; up to 1TB/2TB†† Reg. ECC

• 8 DIMM slots, DDR4-3200MHz; up to 1TB/2TB Reg. ECC

• 16 DIMM slots, DDR4-3200MHz; up to 2TB/4TB†† Reg. ECC

Expansion Slots

• PCIe 3.0 x16 (low profile)

• PCIe 3.0 x16 (low profile)

• PCIe 3.0 x16 (low profile)

• PCIe 3.0 x16 (low profile)

• PCIe 3.0 x16 (low profile)

• PCIe 3.0 x16 (low profile)

• PCIe 3.0 x16 (low profile)

Storage

• 4 hot-pluggable 3.5”  SATA3 drive bays

• 4 hot-pluggable 3.5”  SATA3 drive bays

• 4 hot-pluggable 3.5”  SATA3 drive bays

• 4 hot-pluggable 3.5”  SATA3 drive bays

• 2.5” SSD bays

• 2.5” SSD bays

• 2.5” SSD bays

• 2.5” SSD bays

• 2.5” SSD bays

I/O Ports

• 2 RJ45 1G Ethernet ports

• 2 RJ45 1G Ethernet ports

• 2 RJ45 10G Ethernet ports

• 2 RJ45 10G Ethernet ports

• 2 RJ45 1G Ethernet ports

System Management

• Built-in server management tool (PMI 2.8, KVM/media over LAN with dedicated LAN port)

• Built-in server management tool (PMI 2.8, KVM/media over LAN with dedicated LAN port)

• Built-in server management tool (PMI 2.8, KVM/media over LAN with dedicated LAN port)

System Cooling

• 4x 40x28mm 4-pin PWM fans

• 4x 40x28mm 4-pin PWM fans

• 5 hot-swappable system fans

Power Supply

• Redundant 400W Platinum Level PSUs

• Redundant 740W Platinum Level PSUs

• Redundant 1280W Platinum Level PSUs

† AMD EPYC™ 7002 Series drop-in support requires board revision 2.x. Up to 32 Cores (Board revision 1.x + 7001 Processors), up to 64 Cores (Board revision 2.x + 7002 Processors).†† Requires board revision 2.x updated to 2.11 with 3200U-1AC and 16 DIMM slots of memory maximum capacity.
SuperBlade®
Performance and Density Optimized Resource Saving Architecture

- Up to 20 hot-pluggable nodes in 8U
- Highest density GPU platform for AI and Deep Learning
- Integrated HPC fabrics for up to 100G EDR InfiniBand

RESOURCE SAVING ARCHITECTURE
A shared cooling, power and networking infrastructure is key to the high density and server efficiency offered by blade solutions. Supermicro high performance, density optimized and energy efficiency SuperBlade® can significantly reduce capital and operational expenses for many organizations. In particular, Supermicro’s new generation blade product portfolio has been designed to optimize key components of TCO for today’s datacenters, such as free-air cooling, power efficiency, node density and networking management.

**Form Factor**
- Up to 20 nodes in one 8U enclosure
- Up to 20 nodes in one 8U enclosure
- Up to 20 nodes in one 8U enclosure

**Processor Support**
- Single Socket SP3 for AMD EPYC™ 7002 Series processors, up to 64 cores, up to 280W TDP at 35°C
- Single Socket SP3 for AMD EPYC™ 7002 Series processors, up to 64 cores, up to 280W TDP at 35°C
- Single Socket SP3 for AMD EPYC™ 7002 Series processors, up to 64 cores, up to 225W TDP at 35°C

**Memory Slots & Capacity**
- 8 DIMM slots, DDR4-3200MHz; up to 2TB Reg. ECC
- 8 DIMM slots, DDR4-3200MHz; up to 2TB Reg. ECC
- 8 DIMM slots, DDR4-3200MHz; up to 2TB Reg. ECC

**Expansion Slots**
- 1 PCI-E 4.0 x16 Mezzanine card slot for optional high-performance networking options
- 1 PCI-E 4.0 x16 Mezzanine card slot for optional high-performance networking options
- 1 PCI-E 4.0 x16 Mezzanine card slot for optional high-performance networking options

**Storage**
- 2 hot-pluggable 2.5" NVMe/SATA drives bays
- 2 hot-pluggable 2.5" NVMe/SATA drives bays
- 1 M.2 NVMe (PCI-E 4.0 x4)/SATA3 slot

**I/O Ports**
- 2x 25G Ethernet ports
- 2x 25G Ethernet ports
- 2x 25G Ethernet ports

**System Management**
- IPMI 2.0 Aspeed 2500 / KVM over IP / Redfish API / TPM 2.0 / Signed Firmware / 4x IPMI on Front of Unit
- IPMI 2.0 Aspeed 2500 / KVM over IP / Redfish API / TPM 2.0 / Signed Firmware / 4x IPMI on Front of Unit
- IPMI 2.0 Aspeed 2500 / KVM over IP / Redfish API / TPM 2.0 / Signed Firmware / 4x IPMI on Front of Unit

† Please refer to Blade CPU/GPU support matrix on our website: https://www.supermicro.com/en/products/superblade/matrix

**SBA-4119S-T2N**
- Single-wide GPU

**SBA-4119S-C2N**
- Double-wide GPU

**SBA-4119SG-X**
- Single-wide GPU
SuperBlade® Enclosures and Networking Options

### Blade server support
- Up to 20 hot-pluggable full-height 1-socket blade servers
- Up to 20 hot-pluggable half-height 1-socket blade servers
- Optional 2 hot-pluggable 25G Ethernet switches for optional dual-port 25GbE Mezzanine card

### 25G Ethernet switches
- 2 hot-pluggable redundant 25G Ethernet switches for onboard dual-port 25GbE
- 2 hot-pluggable redundant 25G Ethernet switches for optional dual-port 25GbE Mezzanine card

### 100G EDR InfiniBand switches
- Single 100G EDR InfiniBand switch with add-on card
- Single 100G EDR InfiniBand switch with add-on card
- Optional 2 hot-pluggable redundant 25G Ethernet switches for optional dual-port 25GbE Mezzanine card

### 10G Ethernet switches
- 4x 10G Ethernet switches
- 4x 10G Ethernet switches
- 4x 10G Ethernet switches

### Power and cooling
- SBE-820C/J/L-822: Enclosure with 8 hot-swappable 2200W Titanium Level (96% efficiency) power supplies
- SBE-820C/J/L-622: Enclosure with 6 hot-swappable 2200W Titanium Level (96% efficiency) power supplies + 2 hot-swappable cooling fans
- SBE-820C/J/L-422: Enclosure with 4 hot-swappable 2200W Titanium Level (96% efficiency) power supplies + 4 hot-swappable cooling fans

### Dimensions
- 14” x 17.6" x 32”
- 14” x 17.6" x 32”
- 14” x 17.6" x 32”

### Chassis Management Module (CMM)
- 1 CMM for remote system management with software
- 1 CMM for remote system management with software
- 1 CMM for remote system management with software

### Chassis Management Module (CMM)
- MBM-CMM-001: Standard CMM module with redundancy support
- MBM-CMM-FIO: Upgrade version to support front I/O access ports on supported enclosures

### SuperBlade® Options Models (for enclosures) (for servers) Description
- MBM-SB-IBS (switch) • 20x 100G EDR InfiniBand downlinks and 16x 100G EDR uplinks • 2 hot-pluggable SBE-820C/J/L-822 enclosures with optional fan-out cables
- MBM-SB-IBH-X4ES (Mezz card) • Single-port 100G EDR InfiniBand Mezzanine card • Compatible with all A+ blade servers
- MBM-SB-IBS-E3616M (switch) • 20x 100G EDR InfiniBand downlinks • 16x 100G EDR/40G QSFP+ Ethernet uplinks, each can split into 4x 25GbE/10GbE SFP28 uplinks with optional fan-out cables
- MBM-SB-IB-IBH-X4ES (Mezz card) • Single-port 100G EDR InfiniBand Mezzanine card • Compatible with all A+ blade servers
- MBM-SB-IBS-E3616M (switch) • 20x 100G EDR InfiniBand downlinks • 16x 100G EDR/40G QSFP+ Ethernet uplinks, each can split into 4x 25GbE/10GbE SFP28 uplinks with optional fan-out cables
- MBM-SB-IB-IBH-X4ES (Mezz card) • Single-port 100G EDR InfiniBand Mezzanine card • Compatible with all A+ blade servers

### SuperBlade® Options Models (for servers) Description
- MBM-SB-XEM-100 (switch) • 20x 10/2.5/1G Ethernet downlinks • 4x 100G/40G QSFP+ Ethernet uplinks, each can split into 4x 25GbE/10GbE SFP28 uplinks with optional fan-out cables
- MBM-SB-XEM-002 (switch) • 20x 10/2.5/1G Ethernet downlinks • 2x 40G QSFP+ and 4x 10G SFP+ Ethernet uplinks
- MBM-SB-GEM-004 (switch) • 40x 1G Ethernet downlinks • 8x 10GbE SFP+ + 4x 10GbE SFP+ Ethernet uplinks
- MBM-CMM-001: Standard CMM module with redundancy support
- MBM-CMM-FIO: Upgrade version to support front I/O access ports on supported enclosures
## Options and Accessories

### SAS3 HDD/SSD Adapters

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOC-S3616L-L16iT</td>
<td>16 internal ports, 12Gb/s per port, Low Profile, 1024 SATA/SAS drives</td>
</tr>
<tr>
<td>AOC-S3216L-L16iT</td>
<td>16 internal ports, 12Gb/s per port, Low Profile, 1024 SATA/SAS drives</td>
</tr>
<tr>
<td>AOC-S3008L-L8e</td>
<td>8 internal ports, 12Gb/s per port, Low Profile, 122 SATA/SAS drives</td>
</tr>
<tr>
<td>AOC-S3108L-H8iR-16DD</td>
<td>8 internal ports, 12Gb/s per port, Low Profile, 240 SATA/SAS drives</td>
</tr>
<tr>
<td>AOC-S3108L-H8iR</td>
<td>8 internal ports, 12Gb/s per port, Low Profile, 240 SATA/SAS drives</td>
</tr>
<tr>
<td>AOC-S3108L-L8i</td>
<td>8 internal ports, 12Gb/s per port, Low Profile, 16 SATA/SAS drives</td>
</tr>
</tbody>
</table>

### SAS3 RAID Adapters

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOC-MTG-b2TM</td>
<td>2x 10GbE RJ45, 2x 25GbE SFP28 &amp; 2x GbE RJ45</td>
</tr>
<tr>
<td>AOC-MH25G-b2S2GM</td>
<td>2x 25GbE SFP28 &amp; 2x GbE RJ45</td>
</tr>
<tr>
<td>AOC-MH25G-m2S2TM</td>
<td>2x 25GbE SFP28 &amp; 2x 10GbE RJ45</td>
</tr>
<tr>
<td>AOC-MHIBF-m2Q2GM</td>
<td>1x FDR IB QSFP &amp; 2x GbE RJ45</td>
</tr>
<tr>
<td>AOC-MHIBE-m1CGM</td>
<td>1x EDR/100GbE QSFP28 &amp; 1x GbE RJ45</td>
</tr>
</tbody>
</table>

### SAS3 ADD-ON CARDS

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 SAS3 drives and maximum performance and reliability with SAS3 drivers.

#### SAS3 AOC

Supermicro Advanced I/O Module (AOC) extends the OCP 3.0 specification with unique features that tackle some of the biggest challenges such as thermal control, ability to support a wide range of networking options in a small size form factor, remote management, and quick and simple deployment. With AOC, datacenter managers may bring larger吞并和migration and improve better ROI.

For large scale cloud datacenters, AOCM provides improved thermal control and physical design (improved airflow) and increased scalability, allowing the AOCM to be inserted and replaced without opening the chassis. Many more AOCM options will be available, including: 2x 10GbE, 4x 10GbE, 2x 100GbE QSFP28 & 2x 100GbE QSFP and more.

### SIOM NETWORKING

Supermicro® Super I/O Module (SIOM) delivers up to 50% of I/O cost savings and freedom to select networking options from 1Gb/s to 100Gb/s through a Supermicro optimized form factor that is easy to scale, service and manage across a broad range of Supermicro server and storage systems. The SIOM also enables a higher degree of system integration and increased capacity by saving space, slots that are traditionally mon/eth add-on cards.

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOC-MCGP-12M</td>
<td>2x GbE RJ45, 4x GbE RJ45</td>
</tr>
<tr>
<td>AOC-MCGP-4M</td>
<td>2x 10GbE SFP+</td>
</tr>
<tr>
<td>AOC-MCRG-12M</td>
<td>2x 10GbE SFP+</td>
</tr>
<tr>
<td>AOC-MCRG-4M</td>
<td>4x GbE RJ45</td>
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<tr>
<td>AOC-MTFE-12M</td>
<td>2x 1QPB EDR, 4x GbE RJ45</td>
</tr>
<tr>
<td>AOC-MTFE-4M</td>
<td>4x GbE RJ45</td>
</tr>
</tbody>
</table>

### AIOM NETWORKING

Supermicro Advanced I/O Module (AIOM) extends the OCP 3.0 specification with unique features that tackle some of the biggest challenges such as thermal control, ability to support a wide range of networking options in a small size form factor, remote management, and quick and simple deployment. With AIOM, datacenter managers may enjoy larger吞并和migration and improve better ROI.

For large scale cloud datacenters, AIOM provides improved thermal control and physical design (improved airflow) and increased scalability, allowing the AIOM to be inserted and replaced without opening the chassis. Many more AIOM options will be available, including: 2x 10GbE, 4x 10GbE, 2x 100GbE QSFP28 & 2x 100GbE QSFP and more.

<table>
<thead>
<tr>
<th>Model</th>
<th>Features</th>
</tr>
</thead>
<tbody>
<tr>
<td>AOC-M25G-b2SM</td>
<td>2x 25GbE SFP28 &amp; 4x GbE RJ45</td>
</tr>
<tr>
<td>AOC-MG4-i2SM</td>
<td>4x GbE RJ45</td>
</tr>
</tbody>
</table>

### SUPERMICRO OPTIONS AND ACCESSORIES

- **AOC-M25G-b2SM**
- **AOC-MG4-i2SM**
- **AOC-M25G-b2SM**
- **AOC-MG4-i2SM**

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.

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**More Technical Specifications Are Available on Our Website**