



# SuperStorage

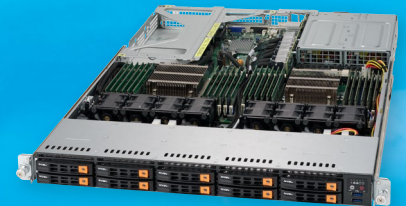
*Industry-Leading Enterprise Storage System and Expansion Solutions*



**Top-Loading**  
*Capacity Maximized*



**Simply Double**  
*Performance and Capacity Optimized*



**General-purpose Storage**  
*Versatile and Flexible*

## Advantages

- 205W TDP dual CPUs supported
- 24 DIMMs for up to 3TB ECC DDR4-2400MHz memory
- Up to 6 PCI-E 3.0 slots
- 100/40/25G Ethernet, and 100G Intel® Omni-Path onboard SiOM network options
- Mixed, hot-swappable **NVMe**, SAS3 and SATA3 drives supported
- SAS3 via Broadcom 3108 (HW RAID) or 3008 (IT Mode)
- All-Flash **NVMe** optimized models deliver up to 7M IOPS
- Scalable to over 1PB per 4U or 10PB in a 42U rack

# SuperStorage

Application optimized high-performance, expandable storage solutions.

**Top-Loading**  
Capacity Maximized



**Simply Double**  
Best Balanced Performance and IOPS



**General-purpose Storage**  
Versatile and Flexible



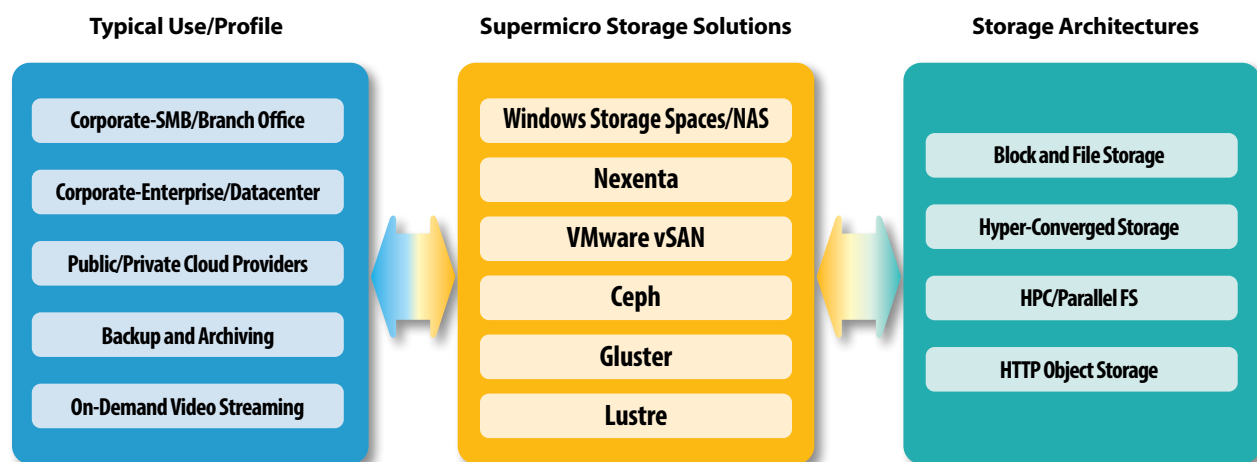
**Complete Portfolio** of open industry standard storage offerings optimized for Microsoft, VMWare, RedHat and Software Defined Storage solutions

**Maximum Performance** - Full **NVMe** support, in hybrid expander and direct attach storage backplane with up to 20 GB/s throughput

**Maximum Efficiency** - High capacity 2U, 3U and 4U form factors with industry leading density. Highest efficiency Titanium rated power supplies (95% power efficient)

**Mission Critical Reliability** - fully redundant, fault-tolerant architecture with hot swappable drive bays, power supplies and cooling fans. The HA capable JBOD hardware is perfect for mission critical applications


















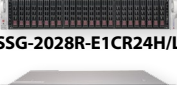





## Supermicro Software-Defined Storage Solutions



**Broad Coverage for Use Cases, Solutions, and Storage Architectures**



To learn more, please visit [www.supermicro.com/solutions/Software\\_Defined\\_Storage.cfm](http://www.supermicro.com/solutions/Software_Defined_Storage.cfm)

	Top-Loading	Simply Double	General-purpose Storage
4U	 <p><b>SSG-6048R-E1CR90L</b></p> <ul style="list-style-type: none"> <li>90x 3.5"</li> <li>SIOM</li> <li>Titanium PSU</li> </ul> <p>p5</p>		 <p><b>SSG-6048R-E1CR72L</b></p> <ul style="list-style-type: none"> <li>72x 3.5"</li> <li>4x 10GbE</li> <li>Titanium PSU</li> </ul> <p>p11</p>
	 <p><b>SSG-6048R-E1CR60N/L</b></p> <ul style="list-style-type: none"> <li>60x 3.5"</li> <li>6x U.2 NVMe</li> <li>SIOM</li> <li>Titanium PSU</li> </ul> <p>p5</p>		 <p><b>SSG-6048R-E1CR36N</b></p> <ul style="list-style-type: none"> <li>36x 3.5"</li> <li>4x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p11</p>
	 <p><b>SSG-6048R-E1CR45L/H</b></p> <ul style="list-style-type: none"> <li>45x 3.5"</li> <li>6x U.2 NVMe</li> <li>SIOM</li> <li>Platinum PSU</li> </ul> <p>p5</p>		 <p><b>SSG-6048R-E1CR36H/L</b></p> <ul style="list-style-type: none"> <li>36x 3.5"</li> <li>2x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p11</p>
			 <p><b>SSG-6048R-E1CR24N</b></p> <ul style="list-style-type: none"> <li>24x 3.5"</li> <li>4x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p11</p>
			 <p><b>SSG-6048R-E1CR24H/L</b></p> <ul style="list-style-type: none"> <li>24x 3.5"</li> <li>2x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p11</p>
3U			 <p><b>SSG-6038R-E1CR16N</b></p> <ul style="list-style-type: none"> <li>16x 3.5"</li> <li>4x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p10</p>
			 <p><b>SSG-6038R-E1CR16H/L</b></p> <ul style="list-style-type: none"> <li>16x 3.5"</li> <li>2x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p10</p>
2U		 <p><b>SSG-6028R-E1CR24L/N</b></p> <ul style="list-style-type: none"> <li>24x 3.5"</li> <li>SIOM</li> <li>Titanium PSU</li> </ul> <p>p7</p>	 <p><b>SSG-6028R-E1CR16T</b></p> <ul style="list-style-type: none"> <li>16x 3.5"</li> <li>2x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p10</p>
			 <p><b>SSG-6028R-E1CR12H/L</b></p> <ul style="list-style-type: none"> <li>12x 3.5"</li> <li>2x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p9</p>
			 <p><b>SSG-6028R-E1CR12N</b></p> <ul style="list-style-type: none"> <li>12x 3.5"</li> <li>4x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p9</p>
			 <p><b>SSG-6028R-E1CR12T</b></p> <ul style="list-style-type: none"> <li>12x 3.5"</li> <li>2x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p9</p>
			 <p><b>SSG-2028R-E1CR24N</b></p> <ul style="list-style-type: none"> <li>24x 2.5"</li> <li>4x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p9</p>
		 <p><b>SSG-2028R-NR48N</b></p> <ul style="list-style-type: none"> <li>48x 2.5"</li> <li>48x U.2 NVMe</li> <li>SIOM</li> <li>Titanium PSU</li> </ul> <p>p8</p>	 <p><b>SSG-2028R-E1CR24H/L</b></p> <ul style="list-style-type: none"> <li>24x 2.5"</li> <li>2x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p9</p>
		 <p><b>SSG-2028R-E1CR48L/N</b></p> <ul style="list-style-type: none"> <li>48x 2.5"</li> <li>SIOM</li> <li>Titanium PSU</li> </ul> <p>p7</p>	 <p><b>SSG-2028R-ACR24H/L</b></p> <ul style="list-style-type: none"> <li>24x 2.5"</li> <li>2x 10GbE</li> <li>Platinum PSU</li> </ul> <p>p9</p>
			 <p><b>SYS-2028U-TN24R4T+</b></p> <ul style="list-style-type: none"> <li>24x 2.5"</li> <li>24x U.2 NVMe</li> <li>4x 10GbE</li> <li>Titanium PSU</li> </ul> <p>p8</p>
1U			 <p><b>SSG-5018A-AR12L</b></p> <ul style="list-style-type: none"> <li>12x 3.5"</li> <li>2x GbE</li> </ul> <p>p10</p>
			 <p><b>SYS-1028U-TN1RT+</b></p> <ul style="list-style-type: none"> <li>10x 2.5"</li> <li>10x U.2 NVMe</li> <li>2x 10GbE</li> <li>Titanium PSU</li> </ul> <p>p8</p>

# Top-Loading

Capacity maximized 45/60/90-bay storage systems optimized for software-defined data centers.



Supermicro top-loading, capacity-maximized storage server family is ideal for use cases such as data replication, data backup, archive and cold storage, video streaming and surveillance, providing customers with more choices to deploy software-defined data centers.

The new 45-bay SuperStorage system comes with the industry's most flexible design and features tiered storage packing hot, warm and cold storage in one compact 4U box.

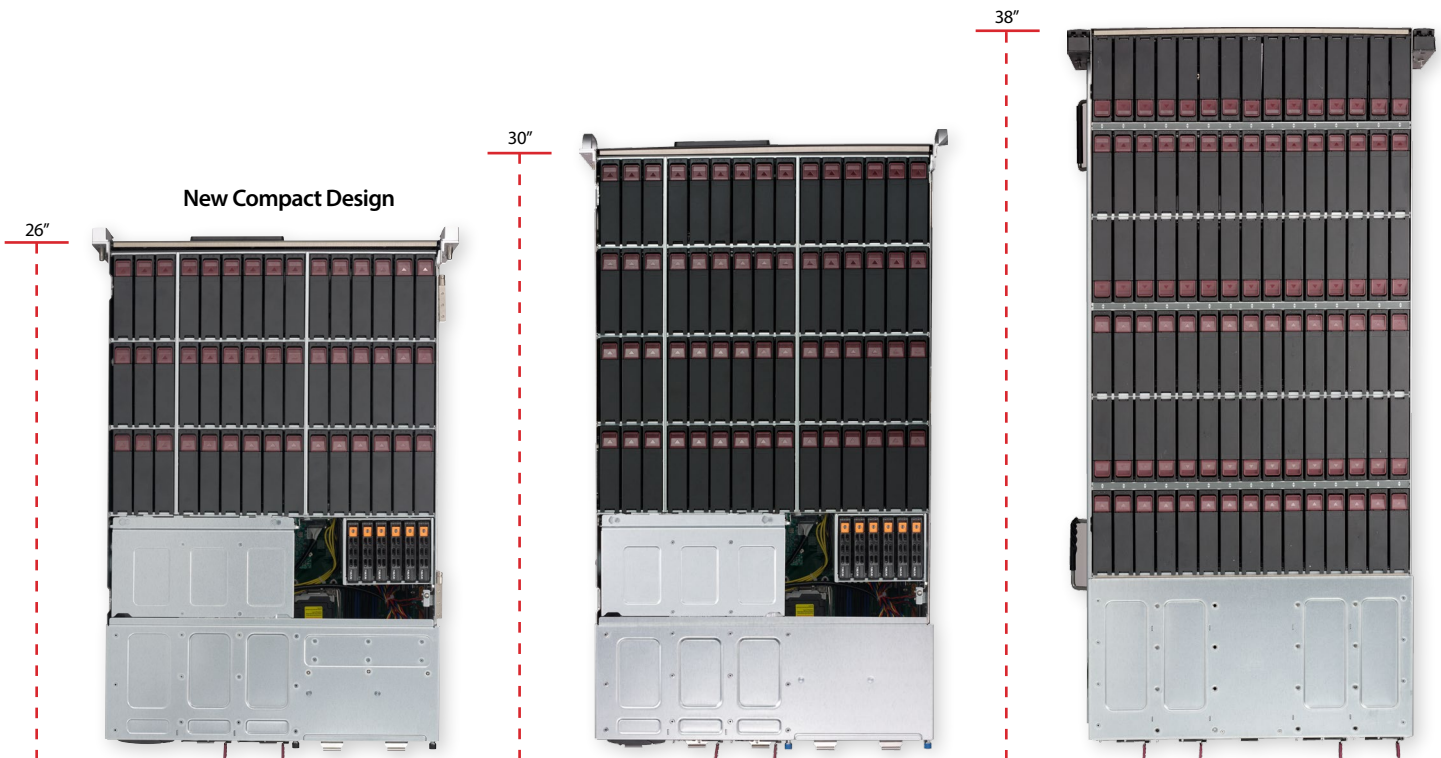
It's the only 45-bay storage server supporting hot-swap **NVMe** SSDs (6 x U.2) for I/O intensive workloads, highest performance CPUs, up to 3TB of DDR4 memory, and a wide range on-board networking options with SIOM cards

Right-sized for every data center deployment with short depth (less than 26"), easy-to-deploy 45-bay, mainstream 60-bay and extremely dense 90-bay storage servers.

**45-Bay**  
+ Optional 6 **NVMe** and 2 Rear 2.5"

**60-Bay**  
+ Optional 6 **NVMe** and 2 Rear 2.5"

**90-Bay**  
+ Optional 2 Rear 2.5"



## Technical Specifications

### 45/60/90-Bay Top-Loading Storage Server Systems

**Compact 45-Bay**



**60-Bay**



**90-Bay**



**SSG-6048R-E1CR45L/H**

**SSG-6048R-E1CR60N/L**

**SSG-6048R-E1CR90L**

	SSG-6048R-E1CR45L/H	SSG-6048R-E1CR60N/L	SSG-6048R-E1CR90L
<b>Processor</b>	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s
<b>Serverboard</b>	SUPER® X10DSC+	SUPER® X10DSC+	SUPER® X10DSC-TP4S
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 1TB ECC registered DDR4-2400MHz in 8 DIMM slots
<b>Expansion Slots</b>	<ul style="list-style-type: none"> <li>• 2 PCI-E 3.0 x16 (FHFL) slots</li> <li>• 1 PCI-E 3.0 x8 (FHFL) slot</li> </ul>	<ul style="list-style-type: none"> <li>• 2 PCI-E 3.0 x16 (FHFL) slots</li> <li>• 1 PCI-E 3.0 x8 (FHFL) slot</li> </ul>	N/A
<b>RAID Controller</b>	<ul style="list-style-type: none"> <li>• <b>-L:</b> Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps); RAID 0,1,1E and 10</li> <li>• <b>-H:</b> Broadcom® SAS3108 for SAS3 (12Gbps); RAID 0,1,1E,5,6,10 and 50</li> </ul>	<ul style="list-style-type: none"> <li>• <b>-L:</b> Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps); RAID 0,1,1E and 10</li> <li>• <b>-N:</b> Broadcom® SAS3108 for SAS3 (12Gbps); RAID 0,1,1E,5,6,10 and 50</li> </ul>	Dual Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps) ports; RAID 0,1,1E and 10
<b>Drive Bays</b>	<ul style="list-style-type: none"> <li>• 45 hot-swap 3.5"/2.5" SAS3/SATA3 drive bays</li> <li>• Optional 6 hot-swap <b>NVMe</b> internal drive bays</li> </ul>	<ul style="list-style-type: none"> <li>• 60 hot-swap 3.5"/2.5" SAS3/SATA3 drive bays</li> <li>• Optional 6 <b>NVMe</b> internal drive bays</li> </ul>	90 hot-swap 3.5"/2.5" SAS3/SATA3 drive bays
<b>Peripheral Storage</b>	2 hot-swap 2.5" SATA3 rear drive bays	2 hot-swap 2.5" SATA3 rear drive bays	2 hot-swap 2.5" SATA3 rear drive bays
<b>Networking</b>	On-board SIOM flexible networking options	On-board SIOM flexible networking options	4x 10G SFP+ Ethernet ports
<b>On-board Video</b>	ASPEED AST2400 VGA	ASPEED AST2400 VGA	ASPEED AST2400 VGA
<b>Management</b>	<ul style="list-style-type: none"> <li>• IPMI 2.0 with dedicated LAN port</li> <li>• Supermicro Rack Scale Design support</li> <li>• Built-in front 3.5" LCD display for health monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• IPMI 2.0 with dedicated LAN port</li> <li>• Supermicro Rack Scale Design support</li> <li>• Built-in front 3.5" LCD display for health monitoring</li> </ul>	<ul style="list-style-type: none"> <li>• IPMI 2.0 with dedicated LAN port</li> <li>• Supermicro Rack Scale Design support</li> </ul>
<b>Power Supply</b>	Redundant 1600W <b>Platinum Level</b> (94%+ efficiency)	Redundant 2000W <b>Titanium Level</b> (96%+ efficiency)	4 Redundant 1000W <b>Titanium Level</b> (96%+ efficiency)
<b>Cooling</b>	5x 8cm hot-swap redundant PWM cooling fans	5x 8cm hot-swap redundant PWM cooling fans	5x 8cm hot-swap redundant PWM cooling fans
<b>Form Factor</b>	4U rackmount	4U rackmount	4U rackmount
<b>Dimensions</b>	17.2"W x 7"H x 25.9"D (437 x 178 x 658mm); 32.5"D (825.5mm) with cable management arm installed	17.2"W x 7"H x 30.2"D (437 x 178 x 767mm); 35.2"D (895mm) with cable management arm installed	17.6"W x 7"H x 38.2"D (447 x 178 x 970.3mm)
<b>Weight</b>	120 lbs (gross); 85 lbs (net)	170.5 lbs (gross); 118 lbs (net)	235 lbs (gross); 160 lbs (net)

# Simply Double

Doubling the number of hot-swap drive bays in a 2U space optimized for performance and capacity.

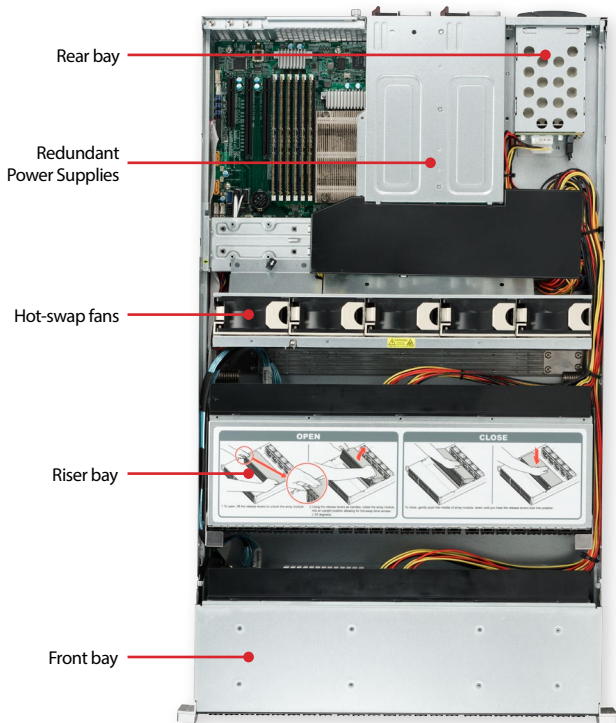


**48-Bay 2.5" All-Flash NVMe**  
+ Optional 2 Rear 2.5"

The Simply Double 2U SuperStorage systems include twice the number of hot-swap drive bays as 2U industry standard systems, thus offering up to twice the storage capacity and IOPS in the same amount of space. The additional drive bays are arrayed in a patented **Riser Bay** that is located on the top of the Simply Double systems for easy access and servicing. With twice the storage density, customers can greatly improve the price/performance of their storage deployments to maximize ROI.

The Supermicro 2U Simply Double SuperStorage systems are available in server or JBOD models (see page 13) that offer either 2.5" or 3.5" drive bays, and that also support all-flash **NVMe** or SAS 3.0 SSD/HDDs. Additional value-added features include an additional two rear hot-swap drive bays, 3 PCI-E 3.0 slots, redundant **Titanium Level** (96%+) high-efficiency power supplies, and support for flexible on-board networking modules (see page 14 for available SIOM networking options).

This broad and feature rich product line allows customers to select and customize the perfect solution that is optimized for their specific requirements, from IOPS intensive applications to deployments that require the highest storage capacity.



**24-Bay 3.5"**  
+ 4 rear 2.5" (2 optional)

## Technical Specifications

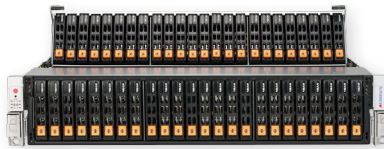
Simply Double SuperStorage Server Systems

### 3.5" SAS3/SATA3



**SSG-6028R-E1CR24L/N**

### All-Flash NVMe



**SSG-2028R-NR48N**

### 2.5" SAS3/SATA3



**SSG-2028R-E1CR48L/N**

	SSG-6028R-E1CR24L/N	SSG-2028R-NR48N	SSG-2028R-E1CR48L/N
Processor	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP
Serverboard	SUPER X10DSC+	SUPER X10DSC+	SUPER X10DSC+
Chipset	Intel® C612	Intel® C612	Intel® C612
Memory	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots
Expansion Slots	<ul style="list-style-type: none"> <li>• 2 PCI-E 3.0 x16 (FH, 10.5"L) slots</li> <li>• 1 PCI-E 3.0 x8 (LP) slot</li> </ul>	<ul style="list-style-type: none"> <li>• 2 PCI-E 3.0 x16 (FH, 10.5"L) slots</li> <li>• 1 PCI-E 3.0 x8 (LP) slot</li> </ul>	<ul style="list-style-type: none"> <li>• 2 PCI-E 3.0 x16 (FH, 10.5"L) slots</li> <li>• 1 PCI-E 3.0 x8 (LP) slot</li> </ul>
RAID Controller	<ul style="list-style-type: none"> <li>• -L: Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps); RAID 0,1,1E and 10</li> <li>• -N: Broadcom® SAS3108 for SAS3 (12Gbps); RAID 0,1,1E,5,6,10 and 50</li> </ul>	N/A	<ul style="list-style-type: none"> <li>• -L: Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps); RAID 0,1,1E and 10</li> <li>• -N: Broadcom® SAS3108 for SAS3 (12Gbps); RAID 0,1,1E,5,6,10 and 50</li> </ul>
Backplane	"E1C"/ Single Expander	PCI-E switched topology	"E1C"/ Single Expander
Drive Bays	24 hot-swap 3.5" SAS3/SATA3 drive bays	48 hot-swap 2.5" U.2 NVMe drive bays	48 hot-swap 2.5" SAS3/SATA3 drive bays
Peripheral Storage	<ul style="list-style-type: none"> <li>• 2 hot-swap 2.5" SATA3 rear drive bays</li> <li>• Optional 2 additional hot-swap 2.5" SATA3 rear drive bays</li> </ul>	<ul style="list-style-type: none"> <li>• 2 hot-swap 2.5" SATA3 rear drive bays</li> <li>• Optional 2 additional hot-swap 2.5" SATA3 rear drive bays</li> </ul>	<ul style="list-style-type: none"> <li>• 2 hot-swap 2.5" SATA3 rear drive bays</li> <li>• Optional 2 additional hot-swap 2.5" SATA3 rear drive bays</li> </ul>
Networking	On-board SIOM flexible networking options	On-board SIOM flexible networking options	On-board SIOM flexible networking options
On-board Video	ASPEED AST2400 VGA	ASPEED AST2400 VGA	ASPEED AST2400 VGA
Management	<ul style="list-style-type: none"> <li>• IPMI 2.0 with dedicated LAN port</li> <li>• Supermicro Rack Scale Design support</li> </ul>	<ul style="list-style-type: none"> <li>• IPMI 2.0 with dedicated LAN port</li> <li>• Supermicro Rack Scale Design support</li> </ul>	<ul style="list-style-type: none"> <li>• IPMI 2.0 with dedicated LAN port</li> <li>• Supermicro Rack Scale Design support</li> </ul>
Power Supply	Redundant 1600W Titanium Level (96%+ efficiency)	Redundant 1600W Titanium Level (96%+ efficiency)	4 Redundant 1000W Titanium Level (96%+ efficiency)
Cooling	5x 8cm hot-swap redundant PWM cooling fans	5x 8cm hot-swap redundant PWM cooling fans	5x 8cm hot-swap redundant PWM cooling fans
Form Factor	2U rackmount	2U rackmount	2U rackmount
Dimensions	17.2"W x 3.5"H x 34"D (437 x 89 x 863.6mm); 41"D (1041.4mm) with cable management arm installed	17.2"W x 3.5"H x 30.2"D (437 x 89 x 767mm); 35.2"D (895mm) with cable management arm installed	17.2"W x 3.5"H x 30.2"D (437 x 89 x 767mm); 35.2"D (895mm) with cable management arm installed



# General-purpose Storage

The foundation of a flexible and efficient storage deployment.



Supermicro's high-performance storage servers include everything needed for a rock solid storage foundation. Individual models are designed to meet the demands of the toughest storage environments, from latency sensitive caching applications to the massive capacity needed for large files used in media libraries and Big Data.

SuperStorage supports both scale-up and scale-out deployment strategies allowing CPU and storage resources scale to meet diverse application requirements.

SuperStorage offers a no compromise storage platform with flexible market entry points from 2U, 3U and 4U form factors using 2.5" and 3.5" HDDs.

## Supermicro All-Flash NVMe SuperServers and Storage Systems

**1U 10 NVMe**  
Throughput/IOPS Optimized



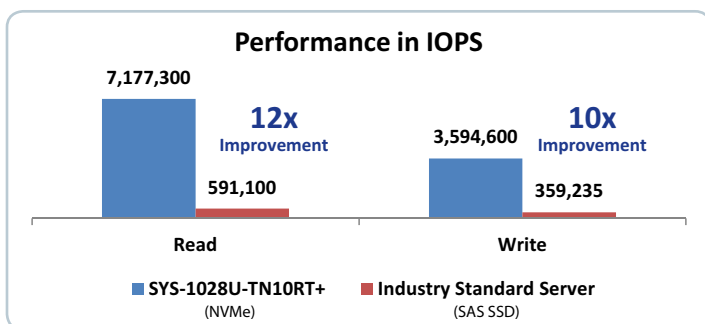
**2U 24 NVMe**  
Balanced Throughput and Capacity



**2U 48 NVMe**  
Capacity Optimized



	SYS-1028U-TN10RT+	SYS-2028U-TN24R4T+	SSG-2028R-NR48N
Processor	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s
Chipset	Intel® C612	Intel® C612	Intel® C612
Memory	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots
PCI-E 3.0 Slots	<ul style="list-style-type: none"> <li>• 2 PCI-E 3.0 x8 (FH, 10.5"L) slots</li> <li>• 1 PCI-E 3.0 x8 (LP) slot</li> </ul>	<ul style="list-style-type: none"> <li>• 2 PCI-E 3.0 x16 (FH, 10.5"L) slots</li> <li>• 1 PCI-E 3.0 x8 (LP) slot</li> </ul>	<ul style="list-style-type: none"> <li>• 2 PCI-E 3.0 x16 (FH, 10.5"L) slots</li> <li>• 1 PCI-E 3.0 x8 (LP) slot</li> </ul>
Drive Bays	10 hot-swap 2.5" U.2 NVMe drive bays	24 hot-swap 2.5" U.2 NVMe drive bays	48 hot-swap 2.5" U.2 NVMe drive bays
Networking	2x 10GBase-T Ethernet ports	4x 10GBase-T Ethernet ports	On-board SiOM flexible networking options
Power Supply	Redundant 1000W Titanium Level (96%+ efficiency)	Redundant 1600W Titanium Level (96%+ efficiency)	Redundant 1600W Titanium Level (96%+ efficiency)
Form Factor	1U rackmount	2U rackmount	2U rackmount



The all-flash NVMe SuperServer and SuperStorage systems deliver a massive improvement in storage performance over systems based on traditional hard disk drives (HDD) and solid state drives (SSD) using legacy storage interfaces including SAS3 and SATA3. The NVMe optimized servers are also more power efficient than the traditional systems and have hot-plug capability for improved serviceability and availability.

To learn more please download the white paper: [www.supermicro.com/white\\_paper/white\\_paper\\_NVMe2.pdf](http://www.supermicro.com/white_paper/white_paper_NVMe2.pdf)



## 2U SuperStorage Server Systems with 3.5" Drive Bays

**Hardware RAID with JBOD Expansion**

**Cost Optimized Hardware RAID**

**Flexible Scale-up & Scale-out**



	<b>SSG-6028R-E1CR12N</b>	<b>SSG-6028R-E1CR12T</b>	<b>SSG-6028R-E1CR12H/L</b>
<b>Processor</b>	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC registered DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC registered DDR4-2400MHz in 16 DIMM slots
<b>PCI-E 3.0 Slots</b>	6 slots (slot 3 & 4 occupied by controller and expander ports)	7 slots	6 (slot 3 & 4 occupied by controller and expander ports)
<b>RAID Controller</b>	Broadcom® SAS3108 for SAS3 (12Gbps)	On-board Broadcom® SAS3108 for SAS3 (12Gbps)	<ul style="list-style-type: none"> <li>-L: Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps)</li> <li>-H: Broadcom® SAS3108 for SAS3 (12Gbps)</li> </ul>
<b>Backplane</b>	"E1C"/ Single Expander	"E1C"/ Single Expander	"E1C"/ Single Expander
<b>Drive Bays</b>	12 hot-swap 3.5" SAS3/SATA3 drive bays	12 hot-swap 3.5" SAS3/SATA3 drive bays	12 hot-swap 3.5" SAS3/SATA3 drive bays
<b>Peripheral Storage</b>	<ul style="list-style-type: none"> <li>• Optional internal drive bracket</li> <li>• Dual JBOD expansion ports</li> </ul>	Optional 2 hot-swap 2.5" SATA3 rear drive bays	<ul style="list-style-type: none"> <li>• Optional 2 hot-swap 2.5" SATA3 rear drive bays</li> <li>• Dual JBOD expansion ports</li> </ul>
<b>Networking</b>	4x 10GBase-T Ethernet ports	2x 10GBase-T Ethernet ports	2x 10GBase-T Ethernet ports
<b>Power Supply</b>	Redundant 920W <i>Platinum Level</i> (94%+ efficiency)	Redundant 920W <i>Platinum Level</i> (94%+ efficiency)	4 Redundant 1000W <i>Titanium Level</i> (96%+ efficiency)
<b>Form Factor</b>	2U rackmount	2U rackmount	2U rackmount

## 2U SuperStorage Server Systems with 2.5" Drive Bays

**Hardware RAID with JBOD Expansion**

**Flexible Scale-up & Scale-out**

**Low-Latency with Triple Controllers**



	<b>SSG-2028R-E1CR24N</b>	<b>SSG-2028R-E1CR24H/L</b>	<b>SSG-2028R-ACR24H/L</b>
<b>Processor</b>	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC registered DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC registered DDR4-2400MHz in 16 DIMM slots
<b>PCI-E 3.0 Slots</b>	6 slots (slot 3 & 4 occupied by controller and expander ports)	7 slots (slot 1 & 2 occupied by controller and expander ports)	7 slots (slot 1, 2 and 3 occupied by controllers)
<b>RAID Controller</b>	Broadcom® SAS3108 for SAS3 (12Gbps)	<ul style="list-style-type: none"> <li>-L: Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps)</li> <li>-H: Broadcom® SAS3108 for SAS3 (12Gbps)</li> </ul>	<ul style="list-style-type: none"> <li>-L: 3 Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps)</li> <li>-H: 3 Broadcom® SAS3108 for SAS3 (12Gbps)</li> </ul>
<b>Backplane</b>	"E1C"/ Single Expander	"E1C"/ Single Expander	"A"/ Direct Connect
<b>Drive Bays</b>	24 hot-swap 2.5" SAS3/SATA3 drive bays	24 hot-swap 2.5" SAS3/SATA3 drive bays	24 hot-swap 2.5" SAS3/SATA3 drive bays
<b>Peripheral Storage</b>	<ul style="list-style-type: none"> <li>• Optional internal drive bracket</li> <li>• Dual JBOD expansion ports</li> </ul>	<ul style="list-style-type: none"> <li>• Optional 2 hot-swap 2.5" SATA3 rear drive bays</li> <li>• Dual JBOD expansion ports</li> </ul>	Optional 2 hot-swap 2.5" SATA3 rear drive bays
<b>Networking</b>	4x 10GBase-T Ethernet ports	2x 10GBase-T Ethernet ports	2x 10GBase-T Ethernet ports
<b>Power Supply</b>	Redundant 920W <i>Platinum Level</i> (94%+ efficiency)	Redundant 920W <i>Platinum Level</i> (94%+ efficiency)	Redundant 920W <i>Platinum Level</i> (94%+ efficiency)
<b>Form Factor</b>	2U rackmount	2U rackmount	2U rackmount

## 2U/3U SuperStorage Server Systems with 3.5" Drive Bays

**Low-latency with Triple HW RAID    Hardware RAID with JBOD expansion    Flexible Scale-up & Scale-out**



	<b>SOG-6028R-E1CR16T</b>	<b>SOG-6038R-E1CR16N</b>	<b>SOG-6038R-E1CR16H/L</b>
<b>Processor</b>	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	Up to 2TB ECC registered DDR4-2400MHz in 16 DIMM slots	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC registered DDR4-2400MHz in 16 DIMM slots
<b>PCI-E 3.0 Slots</b>	7 slots	6 slots (slot 3 & 4 occupied by controller and expander ports)	7 slots (slot 1 & 2 occupied by controller and expander ports)
<b>RAID Controller</b>	On-board Broadcom® SAS3108 for SAS3 (12Gbps)	Broadcom® SAS3108 for SAS3 (12Gbps)	<ul style="list-style-type: none"> <li>• -L: Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps)</li> <li>• -H: Broadcom® SAS3108 for SAS3 (12Gbps)</li> </ul>
<b>Backplane</b>	"E1C"/ Single Expander	"E1C"/ Single Expander	"E1C"/ Single Expander
<b>Drive Bays</b>	16 hot-swap 3.5" SAS3/SATA3 drive bays	16 hot-swap 3.5" SAS3/SATA3 drive bays	16 hot-swap 3.5" SAS3/SATA3 drive bays
<b>Peripheral Storage</b>	2 hot-swap 2.5" SATA3 rear drive bays	<ul style="list-style-type: none"> <li>• Optional internal drive bracket</li> <li>• Dual JBOD expansion ports</li> </ul>	<ul style="list-style-type: none"> <li>• Optional internal drive bracket</li> <li>• Dual JBOD expansion ports</li> </ul>
<b>Networking</b>	2x 10GBase-T Ethernet ports	4x 10GBase-T Ethernet ports	2x 10GBase-T Ethernet ports
<b>Power Supply</b>	Redundant 1000W <i>Titanium Level</i> (96%+ efficiency)	Redundant 920W <i>Platinum Level</i> (94%+ efficiency)	Redundant 920W <i>Platinum Level</i> (94%+ efficiency)
<b>Form Factor</b>	2U rackmount	3U rackmount	3U rackmount

## 1U Storage Systems with 3.5" Drive Bays

	<b>SOG-5018A-AR12L</b>
<b>Processor</b>	Intel® Atom™ processor C2750
<b>Chipset</b>	System-on-chip
<b>Memory</b>	Up to 256GB ECC registered DDR4-2400MHz in 4 DIMM slots
<b>PCI-E 3.0 Slots</b>	1x PCI-E 2.0 x4 (in x8, LP, HL)
<b>RAID Controller</b>	System-on-chip
<b>Backplane</b>	"E1C"/ Single Expander
<b>Drive Bays</b>	12 hot-swap 3.5" SATA3 drive bays
<b>Networking</b>	2x Gigabit Ethernet ports
<b>Power Supply</b>	Redundant 400W high-efficiency
<b>Form Factor</b>	1U rackmount

**Cost-optimized Cold Storage**



## 4U SuperStorage Server Systems with 3.5" Drive Bays

### Hardware RAID with JBOD Expansion



### Flexible Scale-up & Scale-out



	SSG-6048R-E1CR24N	SSG-6048R-E1CR24H/L
<b>Processor</b>	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP
<b>Chipset</b>	Intel® C612	Intel® C612
<b>Memory</b>	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC registered DDR4-2400MHz in 16 DIMM slots
<b>PCI-E 3.0 Slots</b>	6 slots (slot 3 & 4 occupied by controller and expander ports)	7 slots (slot 1 & 2 occupied by controller and expander ports)
<b>RAID Controller</b>	Broadcom® SAS3108 for SAS3 (12Gbps)	<ul style="list-style-type: none"> <li>• -L: Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps)</li> <li>• -H: Broadcom® SAS3108 for SAS3 (12Gbps)</li> </ul>
<b>Backplane</b>	"E1C"/ Single Expander	"E1C"/ Single Expander
<b>Drive Bays</b>	24 hot-swap 3.5" SAS3/SATA3 drive bays	24 hot-swap 3.5" SAS3/SATA3 drive bays
<b>Peripheral Storage</b>	<ul style="list-style-type: none"> <li>• Optional 2 hot-swap 2.5" SATA3 rear drive bays</li> <li>• Dual JBOD expansion ports</li> </ul>	<ul style="list-style-type: none"> <li>• Optional 2 hot-swap 2.5" SATA3 rear drive bays</li> <li>• Dual JBOD expansion ports</li> </ul>
<b>Networking</b>	4x 10GBase-T Ethernet ports	2x 10GBase-T Ethernet ports
<b>Power Supply</b>	Redundant 920W <i>Platinum Level</i> (94%+ efficiency)	Redundant 920W <i>Platinum Level</i> (94%+ efficiency)
<b>Form Factor</b>	4U rackmount	4U rackmount

## 4U Double-sided SuperStorage Server Systems with 3.5" Drive Bays

With Double-sided Storage® architecture, drives can be stacked and packed in the front and rear of the server chassis for improved storage density.

### Hardware RAID with JBOD Expansion

### Flexible Scale-up & Scale-out

### 4U 72x 3.5"



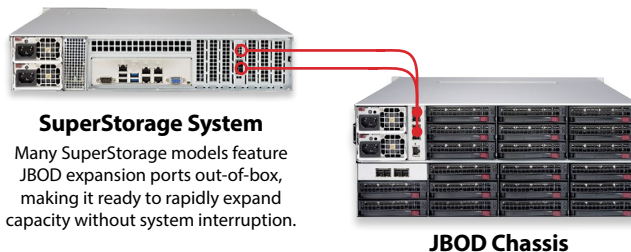
	SSG-6048R-E1CR36N	SSG-6048R-E1CR36H/L	SSG-6048R-E1CR72L
<b>Processor</b>	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s
<b>Chipset</b>	Intel® C612	Intel® C612	Intel® C612
<b>Memory</b>	Up to 3TB ECC registered DDR4-2400MHz in 24 DIMM slots	Up to 2TB ECC registered DDR4-2400MHz in 16 DIMM slots	Up to 2TB ECC registered DDR4-2400MHz in 16 DIMM slots
<b>PCI-E 3.0 Slots</b>	6 slots (slot 3 & 4 occupied by controller and expander ports)	7 slots (slot 1 & 2 occupied by controller and expander ports)	7 slots (slot 1, 2 and 3 occupied by controllers)
<b>RAID Controller</b>	Broadcom® SAS3108 for SAS3 (12Gbps)	<ul style="list-style-type: none"> <li>• -L: Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps)</li> <li>• -H: Broadcom® SAS3108 for SAS3 (12Gbps)</li> </ul>	3 Broadcom® SAS3008 (IT Mode) for SAS3 (12Gbps)
<b>Backplane</b>	"E1C"/ Single Expander	"E1C"/ Single Expander	"E1C"/ Single Expander
<b>Drive Bays</b>	36 hot-swap 3.5" SAS3/SATA3 drive bays	36 hot-swap 3.5" SAS3/SATA3 drive bays	72x 3.5" SAS3/SATA3 drives in 36 hot-swap drive bays
<b>Peripheral Storage</b>	<ul style="list-style-type: none"> <li>• Optional 2 hot-swap 2.5" SATA3 rear drive bays</li> <li>• Optional internal drive bracket</li> <li>• Dual JBOD expansion ports</li> </ul>	<ul style="list-style-type: none"> <li>• Optional 2 hot-swap 2.5" SATA3 rear drive bays</li> <li>• Optional internal drive bracket</li> <li>• Dual JBOD expansion ports</li> </ul>	<ul style="list-style-type: none"> <li>• 2 hot-swap 2.5" SATA3 rear drive bays</li> <li>• Optional internal drive bracket</li> </ul>
<b>Networking</b>	4x 10GBase-T Ethernet ports	2x 10GBase-T Ethernet ports	2x 10GBase-T Ethernet ports
<b>Power Supply</b>	Redundant 1280W <i>Platinum Level</i> (95%+ efficiency)	Redundant 1280W <i>Platinum Level</i> (95%+ efficiency)	Redundant 2000W <i>Titanium Level</i> (96%+ efficiency)
<b>Form Factor</b>	4U rackmount	4U rackmount	4U rackmount

# Storage Expansion

A broad range of versatile JBOD solutions for rapid storage expansion and high availability.

Expanding storage capacity can be done easily and rapidly, and without any system downtime. Supermicro offers three classes of JBOD chassis for maximum flexibility:

- Cost Optimized JBOD Chassis**  
 Reliable high-bandwidth architecture supporting SAS3/SATA3 and featuring integrated single expander.
- High Availability JBOD Chassis**  
 Fully redundant power, fans and expander modules for SAS3/SATA3 drives provide data protection and minimize downtime.
- Super Storage Bridge Bay (SBB) JBOD Chassis**  
 Optimized for mission-critical, enterprise-level storage applications, Super SBB features a fully redundant, fault-tolerant "cluster-in-a-box" system.



### SuperStorage System

Many SuperStorage models feature JBOD expansion ports out-of-box, making it ready to rapidly expand capacity without system interruption.

JBOD Chassis

## Top-loading JBOD Expansion



4U 90-Bay JBOD



4U 60-Bay JBOD



	SC946ED-R2KJBOD	SC946SE1C/E2C-R1K66JBOD
Backplane	Hot-swap dual expander supporting SAS3/SATA3	<ul style="list-style-type: none"> <li>-E1C: Single expander supporting SAS3/SATA3</li> <li>-E2C: Dual expander supporting SAS3/SATA3</li> </ul>
Drive Bays	90 hot-swap 3.5"/2.5" SAS3/SATA3 drive bays	60 hot-swap 3.5"/2.5" SAS3/SATA3 drive bays
Host Connectivity	8 Mini-SAS HD ports	<ul style="list-style-type: none"> <li>-E1C: 4 Mini-SAS HD ports</li> <li>-E2C: 8 Mini-SAS HD ports</li> </ul>
Power Supply	Redundant 1000W <i>Titanium Level</i> (96%+ efficiency)	Redundant 1600W <i>Platinum Level</i> (94%+ efficiency)
Form Factor	4U rackmount	4U rackmount

## Simply Double JBOD Expansion



2U Simply Double 24-Bay JBOD

### CSE-826SE1C-R1K02JBOD

Backplane	Single expander supporting SAS3/SATA3
Drive Bays	24 hot-swap 3.5"/2.5" SAS3/SATA3 drive bays
Host Connectivity	4 Mini-SAS HD ports
Power Supply	Redundant 1000W <b>Titanium Level</b> (96%+ efficiency)
Form Factor	2U rackmount

## Standard JBOD Chassis with Single or Dual Expander Backplane

2U 24x 2.5"

2U 12x 3.5"

3U 16x 3.5"

4U 24x 3.5"



### CSE-216BE1C/E2C-R741JBOD

### CSE-826BE1C/E2C-R741JBOD

### CSE-836BE1C/E2C-R1K03JBOD

### CSE-846BE1C/E2C-R1K03JBOD

Backplane	<ul style="list-style-type: none"> <li>-E1C: Single expander supporting SAS3/SATA3</li> <li>-E2C: Dual expander supporting SAS3/SATA3</li> </ul>	<ul style="list-style-type: none"> <li>-E1C: Single expander supporting SAS3/SATA3</li> <li>-E2C: Dual expander supporting SAS3/SATA3</li> </ul>	<ul style="list-style-type: none"> <li>-E1C: Single expander supporting SAS3/SATA3</li> <li>-E2C: Dual expander supporting SAS3/SATA3</li> </ul>	<ul style="list-style-type: none"> <li>-E1C: Single expander supporting SAS3/SATA3</li> <li>-E2C: Dual expander supporting SAS3/SATA3</li> </ul>
Drive Bays	24 hot-swap 2.5" SAS3/SATA3 drive bays	12 hot-swap 3.5" SAS3/SATA3 drive bays	16 hot-swap 3.5" SAS3/SATA3 drive bays	24 hot-swap 3.5" SAS3/SATA3 drive bays
Host Connectivity	<ul style="list-style-type: none"> <li>-E1C: 4 Mini-SAS HD ports</li> <li>-E2C: 8 Mini-SAS HD ports</li> </ul>	<ul style="list-style-type: none"> <li>-E1C: 4 Mini-SAS HD ports</li> <li>-E2C: 8 Mini-SAS HD ports</li> </ul>	<ul style="list-style-type: none"> <li>-E1C: 4 Mini-SAS HD ports</li> <li>-E2C: 8 Mini-SAS HD ports</li> </ul>	<ul style="list-style-type: none"> <li>-E1C: 4 Mini-SAS HD ports</li> <li>-E2C: 8 Mini-SAS HD ports</li> </ul>
Power Supply	Redundant 740W <b>Platinum Level</b> (94%+ efficiency)	Redundant 740W <b>Platinum Level</b> (94%+ efficiency)	Redundant 1000W <b>Titanium Level</b> (97%+ efficiency)	Redundant 1000W <b>Titanium Level</b> (96%+ efficiency)
Form Factor	2U rackmount	2U rackmount	3U rackmount	4U rackmount

## Double-sided JBOD Expansion with Single or Dual Expander Backplane

4U 72x 2.5"

4U 44x 3.5"

4U 90x 3.5"



### CSE-417BE1C/E2C-R1K23JBOD

### CSE-847E1C/E2C-R1K28JBOD

### CSE-847DE1C/E2C-R2K04JBOD

Backplane	<ul style="list-style-type: none"> <li>-E1C: Single expander supporting SAS3/SATA3</li> <li>-E2C: Dual expander supporting SAS3/SATA3</li> </ul>	<ul style="list-style-type: none"> <li>-E1C: Single expander supporting SAS3/SATA3</li> <li>-E2C: Dual expander supporting SAS3/SATA3</li> </ul>	<ul style="list-style-type: none"> <li>-E1C: Single expander supporting SAS3/SATA3</li> <li>-E2C: Dual expander supporting SAS3/SATA3</li> </ul>
Drive Bays	72 hot-swap 2.5" SAS3/SATA3 drive bays	44 hot-swap 3.5" SAS3/SATA3 drive bays	90x 3.5" SAS3/SATA3 drives in 45 hot-swap drive bays
Host Connectivity	<ul style="list-style-type: none"> <li>-E1C: 4 Mini-SAS HD ports</li> <li>-E2C: 8 Mini-SAS HD ports</li> </ul>	<ul style="list-style-type: none"> <li>-E1C: 4 Mini-SAS HD ports</li> <li>-E2C: 8 Mini-SAS HD ports</li> </ul>	<ul style="list-style-type: none"> <li>-E1C: 4 Mini-SAS HD ports</li> <li>-E2C: 8 Mini-SAS HD ports</li> </ul>
Power Supply	Redundant 1200W <b>Titanium Level</b> (96%+ efficiency)	Redundant 1280W <b>Platinum Level</b> (94%+ efficiency)	Redundant 2000W <b>Titanium Level</b> (96%+ efficiency)
Form Factor	4U rackmount	4U rackmount	4U rackmount



# Storage Bridge Bay (SBB)

A broad range of high availability hardware for next generation storage operating systems.

Optimized for mission-critical enterprise-level storage applications, Supermicro's innovative Super SBB family offers a fully redundant fault-tolerant architecture with JBOD expansion. Hot-swappable canisters for all active components, redundant high efficiency power supplies, and hot pluggable cooling fans, truly enable non-disruptive operations. Dual processor server modules feature advanced node-to-node connectivity, enabling low-latency fail-over cluster performance. The Dual-ported **NVMe**

models take IOPs performance to unprecedented levels, while the robust SAS3 (12GB/s) models support cascaded configurations with both high bandwidth (x8 SAS) connectivity, and high resiliency with fully isolated SAS domains, required for mission-critical deployments. The Super SBB family products are highly available, highly reliable storage systems perfect for the next generation storage platforms in development by OEMs and startups.



48 hot-swap 2.5" All-Flash Dual-Port **NVMe**



24 hot-swap 2.5" All-Flash Dual-Port **NVMe**

2U 24x 2.5"

3U 16x 3.5"

4U 24x 3.5"



Systems	SSG-2028R-DE2CR24L	SSG-6038R-DE2CR16L	SSG-6048R-DE2CR24L
Processor	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s per node, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s per node, 145W TDP	Dual Intel® Xeon® processor E5-2600 v4/v3 product families with QPI up to 9.6GT/s per node, 145W TDP
Memory	Up to 1TB ECC registered DDR4-2400MHz in 8 DIMM slots per node	Up to 1TB ECC registered DDR4-2400MHz in 8 DIMM slots per node	Up to 1TB ECC registered DDR4-2400MHz in 8 DIMM slots per node
PCI-E 3.0 Slots	3 PCI-E 3.0 x8 (LP) slots per node	3 PCI-E 3.0 x8 (LP) slots per node	3 PCI-E 3.0 x8 (LP) slots per node
Networking	<ul style="list-style-type: none"> <li>• 2x 10GBase-T Ethernet ports per node</li> <li>• 100Mbps private Ethernet LAN between redundant nodes</li> </ul>	<ul style="list-style-type: none"> <li>• 2x 10GBase-T Ethernet ports per node</li> <li>• 100Mbps private Ethernet LAN between redundant nodes</li> </ul>	<ul style="list-style-type: none"> <li>• 2x 10GBase-T Ethernet ports per node</li> <li>• 100Mbps private Ethernet LAN between redundant nodes</li> </ul>
Drive Bays	Shared 24 hot-swap 2.5" SAS3/SATA3 drive bays between redundant nodes	Shared 16 hot-swap 3.5" SAS3/SATA3 drive bays between redundant nodes	Shared 24 hot-swap 3.5" SAS3/SATA3 drive bays between redundant nodes
Host Connectivity	2 Mini-SAS HD ports per node	2 Mini-SAS HD ports per node	2 Mini-SAS HD ports per node
Power Supply	Redundant 1200W <b>Titanium Level</b> (96%+ efficiency)	Redundant 1200W <b>Titanium Level</b> (96%+ efficiency)	Redundant 1600W <b>Titanium Level</b> (96%+ efficiency)
Form Factor	2U rackmount	3U rackmount	4U rackmount
JBODs	SSG-927R-E2CJB	SSG-937R-E2CJB	SSG-947R-E2CJB
Drive Bays	Shared 24 hot-swap 2.5" SAS3/SATA3 drive bays between redundant nodes	Shared 16 hot-swap 3.5" SAS3/SATA3 drive bays between redundant nodes	Shared 24 hot-swap 3.5" SAS3/SATA3 drive bays between redundant nodes

## SuperStorage Accessories

### On-board SIOM Networking Options

Dual-port GbE



Quad-port GbE



Dual-port 10GbE



Quad-port 10GbE



Dual-port 10GbE



	AOC-MGP-i2	AOC-MGP-i4	AOC-MTGN-i2S	AOC-MTG-i4S	AOC-MTG-i2T
Port	2 RJ45 ports	4 RJ45 ports	2 SFP+ ports	4 SFP+ ports	2 RJ45 ports
Speed	1Gbps Ethernet	1Gbps Ethernet	10Gb Ethernet	10Gbps Ethernet	10Gbps Ethernet

Quad-port 10GbE



Dual-port 25GbE & Dual-port 10GbE



Dual-port IB FDR & Dual-port GbE



Single-port IB FDR & Dual-port GbE



Single-port Intel® OPA



	AOC-MTG-i4T	AOC-MH25G-m2S2T	AOC-MHIBF-m2Q2G	AOC-MHIBF-m1Q2G	AOC-MHFI-i1C
Port	4 RJ45 ports	2 SFP28 & 2 RJ45 ports	2 QSFP & 2 RJ45 ports	1 QSFP & 2 RJ45 ports	1 QSFP28 port
Speed	10Gbps Ethernet	25Gbps Ethernet 10Gbps Ethernet	56Gbps InfiniBand FDR 1Gbps Ethernet	56Gbps InfiniBand FDR 1Gbps Ethernet	100Gbps Intel® Omni-Path

For a complete list please visit [www.supermicro.com/products/accessories/index.cfm?Type=20](http://www.supermicro.com/products/accessories/index.cfm?Type=20)

### Rear/Internal Drive Kits



MCP-220-82616-0N	MCP-220-83608-0N	MCP-220-84610-0N	MCP-220-82611-0N	MCP-220-84701-0N	AOC-SLG3-2M2
2.5" Rear HDD Kit (2U) includes : • 2x SATA Cables • Mounting Hardware	2.5" Rear HDD Kit (3U) includes : • 2x SATA Cables • Power Extension Cable • Mounting Hardware	2.5" Rear HDD Kit (4U) includes : • 2x SATA Cables • Mounting Hardware	2.5" Internal Drive Bracket Required Additional Parts : • 2x SATA Cables (CBL-0179L) • SATA Power (CBL-0289L)	2.5" or 3.5" Internal drive bracket Required Additional Parts : • 2x SATA Cables (CBL-0179L) • SATA Power (CBL-0082L)	Includes two internal slots for M.2 NVMe SSDs (22x110mm, 22x80mm, 22x60mm) allowing any system to yield high-performance and low power storage expandability.
<b>-Supported systems:</b> • SSG-6027R-E1R12L • SSG-6027R-E1R12T • SSG-2028R-AR24 • SSG-2028R-E1R24L • SSG-6028R-E1CR12H/L	<b>-Supported systems:</b> • SSG-6037R-E1R16N • SSG-6037R-E1R16L • SSG-6038R-E1CR16N/H/L	<b>-Supported systems:</b> • SSG-6047R-E1R24N • SSG-6047R-E1R24L • SSG-6048R-E1CR24N/H/L	<b>-Supported systems:</b> • SSG-6027R-E1R12N • SSG-2028R-E1R24N • SSG-6037R-E1R16N • SSG-6047R-E1R24N • SSG-6047R-E1R36N	<b>-Supported systems:</b> • SSG-6047R-E1R36N • SSG-6047R-E1R36L • SSG-6048R-E1CR36N/H/L	<b>-Supported systems:</b> Any system with a free PCI-E 3.0 x8 low-profile slot

### Caching and Backup Battery Options for SAS Controllers

SuperStorage Hardware RAID controllers support options for cache backup using super capacitors for reliable data protection even through power outages. Broadcom® CacheCade™ offers a performance boost to optimize hot-file storage applications using a small number of SSDs.

- CacheVault™ for Broadcom® 3108 AOC – Flash Backed Cache – BTR-TFM8G-AvagoCVM02

- BRACKET-05

- 2.5" drive bay Mount For CacheVault™ - MCP-240-00127-0N

- Broadcom® CacheCade™ AOC-CHCD-PRO2-KEY

PCI Slot Mount For CacheVault™ - BKT-BBU-

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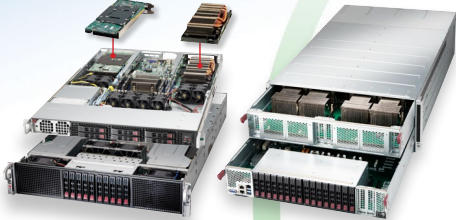
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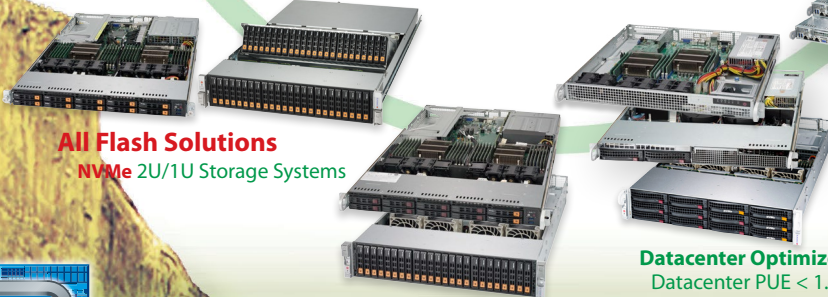
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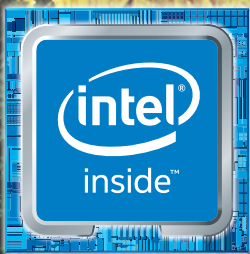
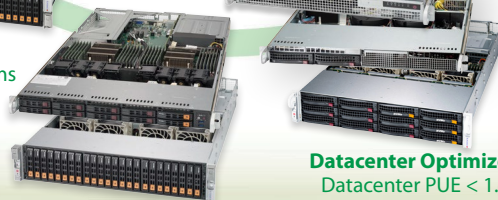


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