

SuperStorage[®] Scalable Storage Servers

Supermicro Family of Performance-Optimized, Capacity-Optimized and Enterprise Storage Servers



Rack-scale storage systems for scale-out and scale-up software-defined storage applications including AI/ML Storage, CSP Storage and Enterprise Applications.

June 2024



The Largest Portfolio of Application-Optimized Storage Servers for All Workloads

Supermicro's storage servers incorporate the latest in software-defined storage technologies including storage software, hardware peripherals, media and Supermicro's system-level technology to provide customers ranging from small enterprises to hyperscale CSPs complete, reliable and high-performance storage solutions. Whether the design is optimized for highest-performance NVMe storage for Al and ML applications or cost-effective high-capacity disk drive storage for backup, archive and data lakes, Supermicro's SuperStorage systems offer the exact product and configuration for your applications.

This brochure contains many of Supermicro's storage server products at the time of publication. For the latest and most complete information, visit the Supermicro storage website at www.supermicro.com.

Innovative System Technologies

Supermicro's storage server innovations are built into all products such as symmetrical I/O bandwidth design which balances NVMe capacity and performance with networking bandwidth. Other Supermicro innovations include innovative storage configurations such as the Simply Double 2U storage server and the flexibility of the high-capacity Top Loading systems which can support one or two server nodes with up to 90 HDD's per 4U.

Building-Block Design Process

The unique Building-Block Design Process used by Supermicro enables a wide variety of storage products to meet customer needs for different storage bay form-factors, front and rear I/O, front and rear storage bays and many rack form-factors from 1U to 4U.

Rack-Level Integration

Supermicro's ability to provide rack-level integration, testing and installation of servers, GPU accelerated systems, networking and storage all together provides large-scale CSP, hyperscale and enterprise private cloud the ability to get fully tested and integrated solutions delivered and installed.

Use Industry-Standard Form Factors

Whether you've standardized on the latest EDSFF E3.S and E1.S SSD form-factors optimized for density and cooling or are using U.2 2.5" and 3.5" LFF disk drive form-factors and even CXL E3.S T2 memory expansion bays, Supermicro has storage products which have been optimized for it.

Powerful High Core-Count and I/O CPUs

Supermicro storage servers support a variety of the latest Intel[®] Xeon[®] and AMD EPYC[™] processors in single CPU and Dual CPUs configurations which provide plenty of CPU cores and PCIe bandwidth for running software-defined storage workloads and supporting high-density NVMe storage expansion.

Validated with Key ISVs for Ease-of-Deployment

Supermicro storage servers are tested extensively with the leading software-defined storage applications including file systems, object stores and HCI optimized compute and storage. In addition, with certain ISV partners, Supermicro storage servers are validated with leading standards such as NVIDIA's GPU Direct Storage and Bluefield®-3 DPU. Other certifications include VMware vSAN, Red Hat Linux, and Microsoft Azure Stack HCI. Supermicro sells licenses for popular software-define storage as part of the solution enabling single-source support.

Designed for Reliability

Because storage needs to run non-stop, Supermicro storage servers are designed for reliability and include features like hot-swap drive bays, fans, power supplies and replaceable subsystems.

Hardware Support for Many Options

The Supermicro storage servers are validated with a wide variety of popular networking adapters, SAS controllers, RAID controllers and SAN HBA's to enable any solution. These products are supported and sold by Supermicro, making onestop shopping and support possible.

Support for latest Storage Media

Supermicro works closely with all of the leading SSD manufacturers including Micron, Samsung, SK Hynix, Solidigm, Western Digital and leading disk drive manufacturers Seagate, Toshiba and Western Digital to quickly qualify the latest SSD and disk drive capacities.

Supermicro Storage Server Portfolio Overview

From High-Capacity 90-Drive Systems to High-Performance All-Flash NVMe Systems

Supermicro Offers the Broadest Portfolio of Storage Server Products in the Industry. Supermicro's five families of storage server products covers the spectrum of performance and capacity requirements for any enterprise or service provider for both disk and all-flash based storage.



* 983.04TB raw using 30.72TB SSDs

Petascale All-Flash Storage Servers

Highest Performance All-Flash Storage Server

Highest Flash capacity with up to 32 E3.S hot-swap bays in a 2U system supporting up to 983TB raw with 30.72TB SSDs.

High density 1U Flash capacity with up to 24 E1.S hotswap bays in a 1U system supporting up to 737TB raw with 30.72TB SSDs.

Symmetric design with balanced NVMe Storage and Network I/O to maximize SSD with network throughput

Support for up to 4 CXL 2.0 DRAM expansion bays optionally for large memory footprints used in analytics, in-memory computing and other memory intensive workloads

Flexible compute with one or two 4th Gen Intel® Xeon[®] or AMD EPYC[™] 9000 series processors with up to 32 DDR5 DIMMS.

Highest Performance and Density in an All-Flash storage server



ASG-2115S-NE332R



SSG-122B-NF316R 1U 16x E3.S Bays (X14)



SSG-222B-NE3X24R 2U 24x E1.S Bays (X14)



1U 24x E1.S Bays (X13)



SSG-221F-NF324R 2U 24x E3.S Bays (X13)



ASG-115S-NE316R 1U 24x E3.S Bays (H13)



ASG-2115S-NE332R 2U 32x E3.S Bays (H13)

Highest Performance 1U and 2U All-Flash Servers

The Petascale families of 1U and 2U All-Flash storage servers provide the highest performance • and high capacity using the most popular E3.S, E1.S and 2.5" U.2 SSD form factors and single and dual socket Intel[®] Xeon[®] processors and single socket AMD EPYC[™] processors. These systems provide leading edge features including:

- Range of capacities up to 32 SSD Bays in a 2U system and up to 24 SSD bays in a 1U system supporting up to 1PB raw capacity (using 30TB SSDs)
- Support for latest PCIe Gen 5 SSD interfaces for highest performance
- Support for all popular SSD form-factors including E3.S, E1.S and 2.5" U.2
- Support for up XX Intel[®] Xeon[®] cores and YY AMD EYPC cores per processor
- Validated with the most popular scale-out clustered high-performance file systems
- Validated with high-performance hardware RAID HBAs for a cost-effective scale-up All-Flash storage system
- Support for optional CXL 2.0 memory expansion bays for memory intensive applications like in-memory databases and analytics

- Scale-out Software-defined storage
- Scale-up high-performance storage system using hardware RAID
- Hyperconverged Infrastructure
- Enterprise storage intensive Applications
- Data warehousing and analytics



Cloud Scale High-Capacity Storage

Highest Capacity Disk and Hybrid Storage Server

Highest capacity with up to 90 SAS/SATA hotswap bays in a 4U system

Top-loading disk access with drawer-design chassis provides maximum serviceability. of active components. offering single and dual node configurations optimized for SDS

The 2U Simply Double storage servers feature an innovative mid-chassis Riser-bay as well as 12 front access bays and up to 4 NVMe. bays in the rear. The Single CPU architecture is available with AMD EPYC[™] and Intel[®] Xeon[®] processors

Supporting up to 2.16PB in 4U!



SSG-640SP-E1CR90



SSG-640SP-E1CR60

60x 3.5" Bays (X12)



SSG-640SP-E1CR90

90x 3.5" Bays (X12)



SSG-620P-E1CR24H SSG-620P-E1CR24L 24x 3.5" Bays (X12)



ASG-2015S-E1CR24H ASG-2015S-E1CR24L 2U 24x 3.5" Bays (H13)

- Software-defined scale-out file and object storage
- Direct-attach high capacity scale-up storage using hardware RAID
- Back up and archive
- Data warehousing and analytics

Highest Capacity and 3.5" HDD Density Disk Storage Server

- The 4U Top-Loading high capacity storage servers provide maximum disk-based capacity along with one or two server processors. These systems can be clustered as either single or dual nodes per chassis for large-scale object storage applications. These systems provide leading edge features including:
- Range of capacities up to 90 3.5" Bays in a 4U system supporting up to 2.16PB raw capacity (using 24TB HDDs)
- Support for latest PCIe Gen 5 interfaces for highest performance HBAs and NICs
- Support for up two Intel® 5th/4th Gen Xeon® processors and one AMD EYPC processor per node
- · Validated with the most popular scale-out clustered file systems and object stores
- Validated with high-performance hardware RAID HBAs for a cost-effective scale-up diskbased direct attach storage system



Enterprise-Optimized Storage Platform

Flexible 3.5" HDD and Flash-hybrid Servers

Supports a range of capacities up to 36 3.5" bays in a 4U system

Flexible access including front access, doublesided access, and front/mid-chassis access for a variety of service needs

Flexible server configurations featuring trusted SAS/SATA media architectures allowing system integrators to deliver cost effective solutions customers have come to depend on. With hot swap disk drives, power supplies and cooling fans these system deliver years of reliable service

Application-Optimized Storage Servers





SSG-621E-ACR12H SSG-621E-ACR12L 2U 12x 3.5" SAS/SATA Bays or 6x 3.5" NVMe (X13)

SSG-621E-ACR16H SSG-621E-ACR16L

2U 16x 3.5" SAS/SATA Bays (X13)

SSG-631E-E1CR16H SSG-631E-E1CR16L 3U, 16x 3.5" SAS/SATA Bays

(X13)

SSG-641E-E1CR24H SSG-641E-E1CR24L 4U, 24x 3.5" SAS/SATA Bays (X13)

SSG-641E-E1CR36H SSG-641E-E1CR36L 4U, 36x 3.5" SAS/SATA Bays and 2x 2.5" SATA Bays or 6x 3.5" NVMe Bays (X13)

Enterprise-Optimized Disk Storage

Supermicro's family of Enterprise-Optimized storage servers offer a range of formfactors from 1U to 4U, capacities from 10 to 36 bays, and media options including HDDs, NVMe SSDs and CXL to meet all enterprise storage workloads.

- Choice of many 1U, 2U, 3U and 4U form-factors with front-loading, front/rear loading, front/mid-loading and internal disk/SSD bays
- Support for 3.5" HDDs and all popular SSD form-factors including E3.S, E1.S and 2.5" U.2
- Support for single and dual Intel[®] 4th Gen and 3rd Gen Xeon[®] and AMD EYPC processors
- Validated with the most popular scale-out clustered and scale-up high-performance file systems and object storage
- Validated with high-performance hardware RAID HBAs for a cost-effective scale-up Disk and All-Flash storage systems
- Support for optional CXL 2.0 memory expansion bays for memory intensive applications like in-memory databases and analytics

- Scale-out Software-defined file and object storage
- Direct-attach high capacity scale-up storage using hardware RAID
- Back up and archive
- File sharing, email and collaboration enterprise applications
- Data warehousing and analytics



High Availability Dual Port All-Flash Storage Servers

Fully Redundant Hot-swap Architecture

High High Capacity NVMe Flash with up to 24 U.2 hot-swap bays in a 2U system supporting up to 1.474PB raw using 61.44TB SSDs

High availability dual server controllers with single Intel® 4th/5th Gen Xeon® processors for active/ passive or active/active failover

End to end PCIe Gen5 architecture supports the latest 400Gb networking enabling low latency with Dual-ported NVMe storage bays for reliable redundant access to shared media between both storage server nodes

Ideal for mission critical scale-up software defined applications like parallel file systems and traditional block and file storage roles Highest Performance and Density in an All-Flash storage server



SSG-221E-DN2R24R



SSG-221E-DN2R24R (Front View) 2U 24x 2.5" U.2 NVMe (X13)



SSG-221E-DN2R24R (Rear View) 2U 24x 2.5" NVMe (X13)

High Availability 2U All-Flash Servers for scale-up file storage

The Dual Controller High Availability Storage Server supports two Intel® 4th Gen Xeon® servers in an active/passive or active/active configuration for high availability scale-up software defined storage. The high performance single Intel® 4th/5th Gen Xeon® CPU powers software-based erasure coding or use optional hardware RAID controllers. Scale up with optional JBOF expansion units for additional capacity as needed.

- 24 U.2 SSD Bays in a 2U system supporting up to 737.28TB raw capacity (using 30.72TB SSDs)
- Support for latest PCIe Gen 5 SSD interfaces for highest performance
- Support for up 64 cores Intel[®] Xeon[®] cores per processor
- Validated with the most popular scale-up high-performance file systems
- Validated with high-performance hardware RAID HBAs for a cost-effective scale-up All-Flash storage system

- Scale-up All-Flash Software-defined storage
- Scale-up high-performance storage system using hardware RAID controllers



Multi-Node Twin Storage Servers

High Density Multi-Node Systems for Scale-Out Storage

Multi-node systems with either one or two Intel[®] 5th Gen/4th Gen Xeon[®] processors or AMD EPYC[™] processors per node

Up to eight nodes in a 4U chassis (FatTwin[®]) or four nodes in a 2U chassis with single CPUs (GrandTwin[®]) or dual CPUs (BigTwin[®])

Supports up to 12x 2.5: Hot-Swap NVMe/SAS/ SATA bays or 6x 3.5" NVMe/SAS/SATA bays per chassis

Ideal for scale-up software defined object storage and file systems

High Density Multi-Node storage servers



SYS-211GT-HNC8R



High Density 2U and 4U Multi-Node Systems for scale-up File and **Object Storage**

(X13)

The twin family of multi-node systems supports one or two Intel® 4th/5th Gen Xeon® or AMD EPYC[™] processors in 2U and 4U chassis with up to 8 nodes. These multi-node systems have either 2.5" or 3.5" drive bays supporting either NVMe, SAS and SATA interfaces. A complete 4 or 8 node object storage or scale-out file system can be implemented with just one or two chassis, enabling a very compact scale-out storage system.

- Capacities up to 48 2.5" NVMe SSD/SATA/SAS Bays in a 4U system supporting up to 1.474PB raw capacity (using 30.72TB SSDs) or 32x 3.5" NVMe/SATA/SAS
- Validated with the most popular scale-up high-performance file systems and object storage
- Validated with high-performance hardware RAID HBAs

NVMe/SAS/SATA bays per node (X13)

- Scale-out Disk, Hybrid or All-Flash Software-defined file and object storage
- Hyperconverged systems including VMware vSAN and Nutanix



JBOD Storage Full Range of Affordable Expansion Storage

Cloud-grade design for best serviceability and massive drive density

Designed right with balanced performance and lower cost per capacity

Easy to use storage management via IPMI and interfaces consistent with server practices

Best-in-class quality with tool-less tray for quick replacement of hot-swap drives

Investment protection with SSD (beyond HDD) support, zero-touch zoning and cascading

Supports up to 12Gbps SAS3 in 2U, 3U or 4U rack sizes for 12- to 90-drive-bay modularity

Market-leading design for Ceph and other popular software





Full-range JBOD Series

- 2U~4U form factor available
- 12/16/24/44 Hot-Swap 2.5" or 3.5" SAS3/SATA3 drive bays
- Front and Rear access, Front Only access
 IPMI port and system monitoring

High Density Enterprise Optimized

Top Loading 45/60

- 45/60 Hot-Swap 3.5" SAS3/SATA3 bays
- Top Loading drive bay access
- Flexible HDD Zoning
- Individual HDD power cycling
- 25.9"/ 30.2"/ 35.7" Depth

Full Range of JBODs for External Storage

Supermicro External Storage systems are designed for deployments where space and access are at a premium, and enable a host of benefits while making data centers software-defined. Distributed expander architecture was developed to unleash the best possible throughput and provide parallel access to dense drive bays without sacrificing thermal dissipation, energy efficiency, or cabling simplicity. This represents a revolution in Direct Attached Storage designed to easily store customers' growing data volumes and to reduce overall storage TCO. Due to shared components with Supermicro servers, JBOD Expansion improves ease-of-use, lowers the TCO and excels at balancing performance and capacity.

Supermicro brings affordability, reliability and serviceability to Data Center storage by integrating drive enclosures into a single intelligent storage solution. External Storage extends the broad portfolio of multi-generation Supermicro servers and third-party systems while allowing a consistent user experience across servers and storage from a single console.

New! High Density Full Serviceability



Top Loading 60/90

- 60/90 Hot-Swap 3.5" SAS3/SATA3 bays
- Top Loading "Drawer" pull-out design
- Passive BPN design, eliminate single point of failure
- No cable management arm required
- Complete Field-Replaceable Units available

Key Applications:

- Data-intensive enterprise apps
- Hyper-converged storage nodes
- Kubernetes/Container/Virtualization back-end
- CDN, SaaS infrastructure
- Business Intelligence and Analytics
- Backup and Recovery
- Scale-out and Object Storage
- Al Training and Data Governance
- HPC and Scientific Research
- Healthcare Imaging and Electronic Records
- Video surveillance and Security incident store
- Telco machine data, OSS/BSS data integration
- Media workflow and 4K video repositories

Software-Defined Storage Software Partners

Supermicro works closely with all of the leading storage software companies to qualify the software on the storage systems and resells many of the options, providing a single-source of support, factory testing and installation and validation.

Supermicro ensures that systems meet its rigorous compatibility testing requirements as well as those of its partners, enabling a worry-free installation and deployment experience. By collaborating with software partners to recommend optimized configurations, Supermicro maximizes performance and capacity while minimizing costs.



X14 Petascale All-Flash Servers

(For Complete System Only)









MODEL	SSG-122B-NE316R	SSG-222B-NE3X24R
Processor Support	Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache per CPU	Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache per CPU
Serverboard	SUPER®® X14DBHM	SUPER® X14DBHM
Chipset	System on Chip	System on Chip
System Memory (Max.)	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 6400MT/s ECC DDR5 RDIMM/LRDIMM	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 6400MT/s ECC DDR5 RDIMM/LRDIMM
Expansion Slots	Default 2 PCle 5.0 x16 FHHL slot(s) 2 PCle 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)	Default 2 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) 1 PCIe 5.0 x8 FHHL slot(s) Option A 1 PCIe 5.0 x8 FHHL slot(s) 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option B 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option C 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option C 2 PCIe 5.0 x16 AIOM slot(s) 2 PCIe 5.0 x16 AIOM slot(s) 1 PCIe 5.0 x16 AIOM slot(s) 1 PCIe 5.0 x16 AIOM slot(s)
Onboard Storage Controller		
Connectivity		
VGA/Audio	1 VGA port(s)	1 VGA port(s)
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)
Drive Bays	Default: Total 16 bay(s) 16 front hot-swap E3.S 1T NVMe drive bay(s) M2: 2 M.2 NVMe/SATA slot(s) (M-key 2280/22110)	Default: Total 24 bay(s) 24 front hot-swap E3.S 1T PCle 5.0 x4 NVMe drive bay(s) Option A: Total 32 bay(s) 32 front hot-swap E3.S 1T PCle 5.0 x4 NVMe drive bay(s) Option B: Total 24 bay(s) 16 front hot-swap E3.S 1T PCle 5.0 x4 NVMe drive bay(s) 8 front fixed E3.S 2T PCle 5.0 x8 CXL Type 3 drive bay(s) Option C: Total 16 bay(s) 8 front hot-swap E3.S 1T PCle 5.0 x4 NVMe drive bay(s) 8 front fixed E3.S 2T PCle 5.0 x8 CXL Type 3 drive bay(s) 8 front fixed E3.S 2T PCle 5.0 x8 CXL Type 3 drive bay(s) 8 front fixed E3.S 2T PCle 5.0 x8 CXL Type 3 drive bay(s) M2: 2 M.2 NVMe/SATA slot(s) (M-key 2280/22110)
Peripheral Bays	N/A	N/A
Power Supply	2x 2000W Redundant Titanium Level power supplies	2x 2000W Redundant (1 + 1) Titanium Level power supplies
Cooling System	8x 4cm heavy duty fans with optimal fan speed control	4x 8cm heavy duty fans with optimal fan speed control
Form Factor	Rackmount	Rackmount

X13 Petascale All-Flash Servers

(For Complete System Only)

5th/4th Gen Intel[°] Xeon[°] Scalable processors Supported







MODEL	SSG-121E-NE316R	SSG-221E-NE324R
Processor Support	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Serverboard	SUPER® X13DSF-A	SUPER® X13DSF-A
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 5600MT/s ECC DDR5 RDIMM/LRDIMM	Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 5600MT/s ECC DDR5 RDIMM/LRDIMM
Expansion Slots	Default 2 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)	Default 4 PCIe 5.0 x8 FHHL slot(s) 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option A 2 PCIe 5.0 x8 FHHL slot(s) 1 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option B 2 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)
Onboard Storage Controller	Intel [®] SATA	Intel [®] SATA
Connectivity	Via AIOM	Via AIOM
VGA/Audio	1 VGA port(s)	N/A
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)
Drive Bays	Default: Total 16 bay(s) 16 front hot-swap E3.S 1T NVMe drive bay(s) M2: 2 M.2 NVMe/SATA slot(s) (M-key 2280/22110)	Default: Total 24 bay(s) 24 front hot-swap E3.5 1T NVMe drive bay(s) M2: 2 M.2 NVMe/SATA slot(s) (M-key 2280/22110)
Peripheral Bays	N/A	N/A
Power Supply	2x 1600W Redundant Titanium Level Hot-plug power supplies	1x 2000W Redundant Titanium Level power supply
Cooling System	8 Heavy Duty 4cm Fan(s)	4 Heavy Duty 8cm Fan(s)
Form Factor	1U Rackmount	2U Rackmount

H13 Petascale All-Flash Servers

(For Complete System Only)

MODEL SSG-121E-NES24R ASG-1115S-NE316R ASG-2115S-NE332R	
Dual Socket E (LGA-4677)Single Socket SP5Single Socket SP5Processor Support5th Gen Intel® Xeon® / 4th Gen Intel® Xeon®Single Socket SP5AMD EPYC™ 9004 Series ProcessorsScalable processorsSingle Socket SP5AMD EPYC™ 9004 Series ProcessorsAMD EPYC™ 9004 Series Processors	
Serverboard SUPER® X13DSF-A SUPER® H13SSF SUPER® H13SSF	
Chipset Intel® C741 AMD System on Chip AMD System on Chip	
System Memory (Max.)Slot Count: 32 DIMM slots Max Memory (2DPC): Up to 8TB 5600MT/s ECC DDR5 RDIMM/LRDIMMSlot Count: 24 DIMM slots Max Memory (2DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM/LRDIMMSlot Count: 24 DIMM slots Max Memory (2DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM/LRDIMMSlot Count: 24 DIMM slots Max Memory (2DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM/LRDIMMSlot Count: 24 DIMM slots Max Memory (2DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM/LRDIMMSlot Count: 24 DIMM slots Max Memory (2DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM/LRDIMM	s 's
Expansion SlotsDefaultDefaultDefault2 PCle 5.0 x16 FHFL slot(s)2 PCle 5.0 x16 FHFL slot(s)2 PCle 5.0 x16 FHHL slot(s)2 PCle 5.0 x16 FHHL slot(s)2 PCle 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)2 PCle 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)2 PCle 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)2 PCle 5.0 x16 AIOM slot(s) (OCP 3.0 	
Onboard Storage Controller Intel® SATA	
Connectivity Via AIOM Via AIOM Via AIOM	
VGA/Audio 1 VGA port(s) 1 VGA port(s) 1 VGA port(s)	
SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro UpdateSuperCloud Composer; Supermicro Server Manager (SSM); Supermicro UpdateSuperCloud Composer; Supermicro Server Manager (SSM); Supermicro UpdateSuperCloud Composer; Supermicro Server 	er r® \$);
Default: Total 24 bay(s) 24 front hot-swap E1.S NVMe drive bay(s) M2: 2 M.2 NVMe/SATA slot(s) (M-key 2280/22110)Default: Total 16 bay(s) 16 front hot-swap E3.S 1T NVMe drive bay(s) 16 front hot-swap E3.S 1T NVMe drive bay(s) M2: 2 M.2 NVMe slot(s) (M-key 2280/22110)Default: Total 34 bay(s) 	y(s) 0)
Peripheral Bays N/A N/A N/A	
Power Supply 2x 2000W Redundant Titanium Level power supplies 1x 1600W Redundant Titanium Level power supply 1x 2000W Redundant Titanium Level power supply	ver
Cooling System8 Heavy Duty 4cm Fan(s)8 Heavy Duty 4cm Fan(s)4 Heavy Duty 8cm Fan(s)	
Form Factor 1U Rackmount 1U Rackmount 2U Rackmount	



X13/H13 Petascale All-Flash Servers

(For Complete System Only)

5th/4th Gen Intel[°] Xeon[°] Scalable processors Supported







MODEL	SSG-121E-NE3X12R	ASG-1115S-NE3X12R
Processor Support	Dual processor(s)	Single processor(s)
Serverboard	SUPER® X13DSF-A	SUPER● [®] H13SSF
Chipset	Intel® C741	AMD System on Chip
System Memory (Max.)	Slot Count: 32 DIMM slots	Slot Count: Onboard Memory
Expansion Slots	Default 2 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)	Default 2 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)
Onboard Storage Controller		
Connectivity	Via AlOM	Via AlOM
VGA/Audio	1 VGA port(s)	1 VGA port(s)
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)
Drive Bays	Default: Total 12 bay(s) 8 front hot-swap E3.S 1T NVMe drive bay(s) 4 front fixed E3.S 2T CXL Type 3 drive bay(s) M2: 2 M.2 NVMe/SATA slot(s) (M-key 2280/22110)	Default: Total 12 bay(s) 8 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bay(s) 4 front fixed E3.S 2T PCIe 5.0 x8 CXL Type 3 drive bay(s) M2: 2 M.2 NVMe slot(s) (M-key 2280/22110)
Peripheral Bays	N/A	N/A
Power Supply	1x 1600W Redundant Titanium Level power supply	1x 1600W Redundant Titanium Level power supply
Cooling System	8 Heavy Duty 4cm Fan(s)	8 Heavy Duty 4cm Fan(s)
Form Factor	1U Rackmount	1U Rackmount

X13 Enterprise Storage Server

5th/4th Gen Intel[®] Xeon[®] Scalable processors . Supported







MODEL	SSG-621E-ACR12H SSG-621E-ACR12L	SSG-621E-ACR16H SSG-621E-ACR16L
Processor Support	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Serverboard	SUPER● [®] X13DEI-T	SUPER [®] X13DEI-T
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Expansion Slots	Default 4 PCIe 5.0 x16 (in x16) LP slot(s) 2 PCIe 5.0 x8 (in x8) LP slot(s)	Default 4 PCIe 5.0 x16 (in x16) LP slot(s) 2 PCIe 5.0 x8 (in x8) LP slot(s)
Onboard Storage Controller		
Connectivity	2 RJ45 10GbE with Broadcom [®] BCM57416	2 RJ45 10GbE with Broadcom [®] BCM57416
VGA/Audio	1 VGA port(s) (Rear)	1 VGA port(s) (Rear)
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)
Drive Bays	Default: Total 14 bay(s) 12 front hot-swap 3.5" SAS/SATA drive bay(s) 2 rear hot-swap 2.5" SATA drive bay(s) Option A: Total 6 bay(s) 6 front hot-swap 3.5" PCle 5.0 x4 NVMe* drive bay(s) *Optional M2: 2 M.2 PCle 4.0 x2 NVMe slot(s) (M-key 2280/22110)	Default: Total 18 bay(s) 12 front hot-swap 3.5" SAS/SATA drive bay(s) 4 internal hot-swap 3.5" SAS/SATA drive bay(s) 2 rear hot-swap 2.5" SATA drive bay(s) Option A: Total 6 bay(s) 6 front hot-swap 3.5" PCIe 5.0 x4 NVMe* drive bay(s) *Optional M2: 2 M.2 PCIe 4.0 x2 NVMe slot(s) (M-key 2280/22110)
Peripheral Bays	N/A	N/A
Power Supply	2x 1200W Redundant Titanium Level Hot-plug power supplies	2x 1600W Redundant Titanium Level Hot-plug power supplies
Cooling System	3 Heavy Duty 8cm Fan(s)	4 Heavy Duty 8cm Fan(s)
Form Factor	2U Rackmount	2U Rackmount



X13 Enterprise Storage Server

5th/4th Gen Intel[°] Xeon[°] Scalable processors Supported





MODEL	SSG-631E-E1CR16H SSG-631E-E1CR16L	SSG-641E-E1CR24H SSG-641E-E1CR24L	SSG-641E-E1CR36H SSG-641E-E1CR36L
Processor Support	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Serverboard	SUPER® X13DEI-T	SUPER® X13DEI-T	SUPER® X13DEI-T
Chipset	Intel [®] C741	Intel [®] C741	Intel® C741
System Memory (Max.)	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Expansion Slots	Default • 4 PCle 5.0 x16 (in x16) FHHL slot(s) • 2 PCle 5.0 x8 (in x8) FH/10.5"L slot(s)	Default • 4 PCle 5.0 x16 (in x16) FHHL slot(s) • 2 PCle 5.0 x8 (in x8) FH/10.5"L slot(s)	Default • 4 PCIe 5.0 x16 (in x16) LP slot(s) • 2 PCIe 5.0 x8 (in x8) LP slot(s)
Onboard Storage Controller	-H: Intel [®] SATABroadcom [®] AOC-S3908L-H8IR -L: Intel [®] SATABroadcom [®] AOC-S3808L-L8IT	-H: Intel® SATABroadcom® AOC-S3908L-H8IR -L: Intel® SATABroadcom® AOC-S3808L-L8IT	-H: Intel® SATABroadcom® AOC-S3908L-H8IR -L: Intel® SATABroadcom® AOC-S3808L-L8IT
Connectivity	2 RJ45 10GbE with Broadcom® BCM57416	2 RJ45 10GbE with Broadcom® BCM57416	2 RJ45 10GbE with Broadcom® BCM57416
VGA/Audio	1 VGA port(s) (Rear)	1 VGA port(s) (Rear)	1 VGA port(s) (Rear)
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)
Drive Bays	Default: Total 18 bay(s) 16 front hot-swap 3.5″ SAS/SATA drive bay(s) 2 rear hot-swap 2.5″ SATA drive bay(s) M2: 2 M.2 PCle 4.0 x2 NVMe slot(s) (M-key 2280/22110)	Default: Total 26 bay(s) 24 front hot-swap 3.5" SAS/SATA drive bay(s) 2 rear hot-swap 2.5" SATA drive bay(s) Option A: Total 6 bay(s) 6 front hot-swap 3.5" NVMe* drive bay(s) *Optional M2: 2 M.2 PCle 4.0 x2 NVMe slot(s) (M-key 2280/22110)	Default: Total 38 bay(s) 12 rear hot-swap 3.5" SAS/SATA drive bay(s) 2 rear hot-swap 2.5" SATA drive bay(s) 24 front hot-swap 3.5" SAS/SATA drive bay(s) Option A: Total 6 bay(s) 6 front hot-swap 3.5" PCIe 5.0 x4 NVMe* drive bay(s) *Optional M2: 2 M.2 NVMe slot(s) (M-key 2280/22110)
Peripheral Bays	1 slim DVD bay(s) (optional)	N/A	N/A
Power Supply	2x 1200W Redundant Titanium Level Hot- plug power supplies	2x 1200W Redundant Titanium Level Hot- plug power supplies	2x 1600W Redundant Titanium Level Hot- plug power supplies
Cooling System	5 Heavy Duty 8cm Fan(s)	5 Heavy Duty 8cm Fan(s)	7 Heavy Duty 8cm Fan(s)
Form Factor	3U Rackmount	4U Rackmount	4U Rackmount

X13/H13 Simply Double

(For Complete System Only)



MODEL	SSG-521E-E1CR24H SSG-521E-E1CR24L	SSG-620P-E1CR24H SSG-620P-E1CR24L	ASG-2015S-E1CR24H ASG-2015S-E1CR24L
Processor Support	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 36C/72T; Up to 180MB Cache	Dual Socket P+ (LGA-4189) 3rd Gen Intel® Xeon® Scalable processors Up to 38C/76T; Up to 57MB Cache per CPU	Single Socket SP5 AMD EPYC™ 9004 Series Processors Up to 84C/168T; Up to 384MB Cache
Serverboard	SUPER® X13SEDW-F	SUPER [®] X12DSC-A6	SUPER [®] H13SSW
Chipset	Intel [®] C741	Intel [®] C621A	System on Chip
System Memory (Max.)	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM	Slot Count: 16 DIMM slots Max Memory (2DPC): Up to 4TB 3200MT/s ECC DDR4 RDIMM/LRDIMM	Slot Count: 12 DIMM slots Max Memory (2DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM/LRDIMM
Expansion Slots	Default 4 PCIe 5.0 x8 FHHL slot(s) 2 PCIe 5.0 x16 FHHL slot(s) 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option A 2 PCIe 5.0 x8 FHHL slot(s) 2 PCIe 5.0 x16 FHHL slot(s) 1 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option B 2 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 5.0 x16 FHHL slot(s) 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option B 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)	Default 1 PCle 4.0 x8 LP slot(s) 2 PCle 4.0 x16 LP slot(s) 1 PCle 4.0 x16 AIOM slot(s) (OCP 3.0 compatible)	$\begin{tabular}{ c c c c } \hline Default & & & & & \\ \hline & & & & & & \\ \hline & & & & &$
Onboard Storage Controller	-H: -L:	-H:Intel® SATABroadcom® AOC-S3916L-H16IR- 32DD-O -L: Intel® SATABroadcom® AOC-S3816L-L16IT	-H: Broadcom® AOC-S3908L-H8IR-32DD-P -L: Broadcom® AOC-S3808L-L8IT-P
Connectivity	Via AIOM	Via AIOM	Via AIOM
VGA/Audio	1 VGA port(s)	1 VGA port(s)	1 VGA port(s)
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor* 5 (SDS); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor* 5 (SDS); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor [®] 5 (SDS); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)
Drive Bays	Default: Total 26 bay(s) 12 front hot-swap 3.5" SAS/SATA drive bay(s) 12 top-loading hot-swap 3.5" SAS/SATA drive bay(s) 2 rear hot-swap 2.5" SATA drive bay(s) 12 front hot-swap 3.5" SAS/SATA drive bay(s) 12 front hot-swap 3.5" SAS/SATA drive bay(s) 12 crear hot-swap 2.5" NVMe drive bay(s) 2 rear hot-swap 2.5" NVMe drive bay(s) 2 front hot-swap 3.5" SAS/SATA drive bay(s) 12 top-loading hot-swap 3.5" SAS/SATA drive bay(s) 4 rear hot-swap 2.5" NVMe drive bay(s) 2 rear hot-swap 2.5" SATA drive bay(s) 2 rear hot-swap 3.5" SAS/SATA drive bay(s) 2 rear hot-swap 3.5" SAS/SATA drive bay(s) 2 rear hot-swap 3.5" SATA drive bay(s) 3 rear hot-swap 3.5" SATA solut(s) (M-sec 3 280/22110)	Default: Total 28 bay(s) 12 front hot-swap 3.5" SAS/SATA drive bay(s) 12 top-loading hot-swap 3.5" SAS/SATA drive bay(s) 2 rear hot-swap 2.5" SATA drive bay(s) 2 rear hot-swap 2.5" NVMe drive bay(s) M2: 2 M.2 NVMe slot(s) (M-key 2280/22110)	Default: Total 26 bay(s) 12 front hot-swap 3.5" SAS/SATA drive bay(s) 12 top-loading hot-swap 3.5" SAS/SATA drive bay(s) 2 rear hot-swap 2.5" SATA drive bay(s) 12 front hot-swap 3.5" SAS/SATA drive bay(s) 12 front hot-swap 3.5" SAS/SATA drive bay(s) 12 rear hot-swap 2.5" SATA drive bay(s) 2 rear hot-swap 2.5" NVMe drive bay(s) 2 rear hot-swap 3.5" SAS/SATA drive bay(s) 12 front hot-swap 3.5" SAS/SATA drive bay(s) 12 top-loading hot-swap 3.5" SAS/SATA drive bay(s) 4 rear hot-swap 2.5" SATA drive bay(s) 2 rear hot-swap 2.5" SATA drive bay(s) 2 rear hot-swap 2.5" SATA drive bay(s) M2: 2 M.2 NVMe slot(s) (M-key 2280/22110)
Peripheral Bays	N/A	N/A	N/A
Power Supply	2x 1600W Redundant Titanium Level Hot-plug power supplies	2x 1600W Redundant Titanium Level Hot- plug power supplies	1x 1600W Redundant Titanium Level power supply
Cooling System	4 Heavy Duty 8cm Fan(s)	5 Heavy Duty 8cm Fan(s)	4 Heavy Duty 8cm Fan(s)
Form Factor	2U Rackmount	2U Rackmount	2U Rackmount



X13 BIGTWIN®

2U 2-Node

2U 2-Node

5th/4th Gen Intel[°] Xeon[°] Scalable processors Supported







MODEL	SYS-621BT-DNTR	SYS-621BT-DNC8R
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 300W TDP (air cooled) Up to 350W TDP (liquid cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 300W TDP (air cooled) Up to 350W TDP (liquid cooled)
Serverboard	SUPER® [®] X13DET-B	SUPER®® X13DET-B
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 M.2 (22x110mm) slots for boot drive or caching 1 PCle 5.0 x16 LP slot 2 PCle x8 LP slots	2 M.2 (22x110mm) slots for boot drive or caching 1 PCle 5.0 x16 LP slot 2 PCle x8 LP slots
Onboard Storage Controller	Intel® SATA	Broadcom® 3808
Connectivity	via AIOM	via AlOM
VGA/Audio	1 onboard VGA port	1 onboard VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog
Drive Bays	6 hot-swap 3.5″ NVMe/SATA drive bays; RAID support via Intel® PCH	6 hot-swap 3.5" NVMe/SAS drive bays; HBA support via SAS3808 Adapter
Peripheral Bays	None	None
Power Supply	1U 2200W Redundant Power Supply Titanium with C14 inlet, 45(W) X 40(H) X 480(L)	1U 2200W Redundant Power Supply Titanium with C14 inlet, 45(W) X 40(H) X 480(L)
Cooling System	4 heavy duty 14.9K RPM 8cm fans	4 heavy duty 14.9K RPM 8cm fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 774mm (17.68" x 3.47" x 30.5") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 774mm (17.68" x 3.47" x 30.5") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

X13 BIGTWIN®

2U 2-Node

2U 2-Node

5th/4th Gen Intel[®] Xeon[®] Scalable processors Supported







MODEL	SYS-221BT-DNTR	SYS-221BT-DNC8R
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled) Up to 350W TDP (liquid cooled)	Dual 5th/4th Gen Intel® Xeon® Scalable processors Up to 350W TDP (air cooled) Up to 350W TDP (liquid cooled)
Serverboard	SUPER® X13DET-B	SUPER®® X13DET-B
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 M.2 (22x110mm) slots for boot drive or caching 1 PCle 5.0 x16 LP slot 2 PCle x8 LP slots	2 M.2 (22x110mm) slots for boot drive or caching 1 PCle 5.0 x16 LP slot 2 PCle x8 LP slots
Onboard Storage Controller	Intel® SATA	Broadcom® 3816
Connectivity	via AIOM	via AIOM
VGA/Audio	1 onboard VGA port	1 onboard VGA port
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; Supemicro Out of Band (OOB) License; SuperCloud Composer; SuperDoctor® 5; Watch Dog
Drive Bays	12 hot-swap 2.5" NVMe/SATA drive bays; RAID support via Intel® PCH	12 hot-swap 2.5" NVMe/SAS drive bays; Optional HBA support via SAS3816 AOC
Peripheral Bays	None	None
Power Supply	1U 2200W Redundant Power Supply Titanium with C14 inlet, 45(W) X 40(H) X 480(L)	1U 2200W Redundant Power Supply Titanium with C14 inlet, 45(W) X 40(H) X 480(L)
Cooling System	4 heavy duty 16.5K RPM 8cm fans	4 heavy duty 16.5K RPM 8cm fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 730mm (17.68" x 3.47" x 28.75") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")



X13 GRANDTWIN®

2U 4-Node Front I/O

2U 4-Node Front I/O

5th/4th Gen Intel[°] Xeon[°] Scalable processors Supported







MODEL	SYS-211GT-HNTF	SYS-211GT-HNC8F
Processor Support	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)
Serverboard	SUPER® X13SET-G	SUPER® X13SET-GC
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-4800MT/s	16 DIMM slots; up to 4TB DDR5-4800MT/s
Expansion Slots	2 PCIe 5.0 x16 AIOM slots	2 PCIe 5.0 x16 AIOM slots
Onboard Storage Controller	Intel [®] SATA	Broadcom [®] Broadcom [®] 3808
Connectivity	via AIOM	via AIOM
VGA/Audio	1 VGA port	1 VGA port
Management	SuperCloud Composer; SuperDoctor® 5 (SD5); Supermicro Diagnostics Offline (SDO); Supermicro Intelligent Mgmt (BMC Resources); Supermicro IPMI Utilities; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Server Mgmt (Redfish® API); Supermicro Thin-Agent Service (TAS); Supermicro Update Manager (SUM)	SuperCloud Composer; SuperDoctor® 5 (SD5); Supermicro Diagnostics Offline (SDO); Supermicro Intelligent Mgmt (BMC Resources); Supermicro IPMI Utilities; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Server Mgmt (Redfish® API); Supermicro Thin-Agent Service (TAS); Supermicro Update Manager (SUM)
Drive Bays	4 hot-swap 2.5" NVMe/SATA drive bays; 4x 2.5" NVMe dedicated; optional RAID support via Intel® PCH	4 hot-swap 2.5" NVMe/SATA/SAS drive bays; 4x 2.5" NVMe dedicated; optional RAID support via Broadcom [®] 3808 AOC
Peripheral Bays	None	None
Power Supply	Redundant 2200W Titanium level (96%)	Redundant 2200W Titanium level (96%)
Cooling System	2 heavy duty 8cm fans	2 heavy duty 8cm fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

X13 GRANDTWIN®

2U 4-Node Rear I/O

2U 4-Node Rear I/O

5th/4th Gen Intel[°] Xeon[°] Scalable processors Supported







MODEL	SYS-211GT-HNTR	SYS-211GT-HNC8R
Processor Support	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 300W TDP (air cooled)†	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 300W TDP (air cooled)†
Serverboard	SUPER®° X13SET-G	SUPER® X13SET-GC
Chipset	Intel [®] C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-4800MT/s	16 DIMM slots; up to 4TB DDR5-4800MT/s
Expansion Slots	2 PCIe 5.0 x16 AIOM slots	2 PCIe 5.0 x16 AIOM slots
Onboard Storage Controller	Intel [®] SATA	Broadcom [®] Broadcom [®] 3808
Connectivity	via AIOM	via AIOM
VGA/Audio	1 VGA port	1 VGA port
Management	SuperCloud Composer; SuperDoctor [®] 5 (SD5); Supermicro Diagnostics Offline (SDO); Supermicro Intelligent Mgmt (BMC Resources); Supermicro IPMI Utilities; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Server Mgmt (Redfish [®] API); Supermicro Thin-Agent Service (TAS); Supermicro Update Manager (SUM)	SuperCloud Composer; SuperDoctor [®] 5 (SD5); Supermicro Diagnostics Offline (SDO); Supermicro Intelligent Mgmt (BMC Resources); Supermicro IPMI Utilities; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Server Mgmt (Redfish [®] API); Supermicro Thin-Agent Service (TAS); Supermicro Update Manager (SUM)
Drive Bays	6x 2.5" hot-swap NVMe/SATA drive bays; 6x 2.5" NVMe dedicated; Optional RAID support via Intel® PCH	6x 2.5" hot-swap NVMe/SATA/SAS drive bays; 6x 2.5" NVMe dedicated; Optional RAID support via Broadcom® 3808 AOC
Peripheral Bays	None	None
Power Supply	Redundant 2200W Titanium level (96%)	Redundant 2200W Titanium level (96%)
Cooling System	2 heavy duty 8cm fans	2 heavy duty 8cm fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")



H13 GrandTwin®

2U 4-Node Rear I/O





MODEL	AS -2115GT-HNTR	AS -2115GT-HNTF
Processor Support	AMD EPYC [™] 9004 Series Processors Single Socket (Socket SP5)	AMD EPYC [™] 9004 Series Processors Single Socket (Socket SP5)
Serverboard	SUPER® H13SST-G	SUPER® H13SST-G
Chipset	System on Chip	System on Chip
System Memory (Max.)	Up to 3TB 3DS ECC RDIMM DDR5-4800MHz in 12 DIMMs	Up to 3TB 3DS ECC RDIMM DDR5-4800MHz in 12 DIMMs
Expansion Slots	2 AIOM/OCP 3.0 slots per node	1 PCle 4.0 x16 LP slot optional, internal only
Onboard Storage Controller	AMD SP5	AMD SP5
Connectivity	via AIOM and onboard dedicated BMC port	via AIOM and GrandTwin® I/O Module
VGA/Audio	1 VGA port	1 VGA port
Management	SuperCloud Composer; SuperDoctor [®] 5 (SD5); Supermicro Diagnostics Offline (SDO); Supermicro Intelligent Mgmt (BMC Resources); Supermicro IPMI Utilities; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Server Mgmt (Redfish [®] API); Supermicro Thin-Agent Service (TAS); Supermicro Update Manager (SUM)	SuperCloud Composer; SuperDoctor® 5 (SD5); Supermicro Diagnostics Offline (SDO); Supermicro Intelligent Mgmt (BMC Resources); Supermicro IPMI Utilities; Supermicro Power Manager (SPM); Supermicro Server Manager (SSM); Supermicro Server Mgmt (Redfish® API); Supermicro Thin-Agent Service (TAS); Supermicro Update Manager (SUM)
Drive Bays	6x 2.5" hot-swap NVMe/SATA drive bays	4x 2.5" hot-swap NVMe/SATA drive bays
Power Supply	Redundant 2200W Titanium level (96%)	Redundant 2200W Titanium level (96%)
Cooling System	2x 8cm heavy duty fans	2x 8cm heavy duty fans
Form Factor	2U Rackmount Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")	2U Rackmount Enclosure: 449 x 88 x 711.2mm (17.67" x 3.46" x 28") Package: 626 x 248 x 1150mm (24.65" x 9.76" x 45.28")

X13 FATTWIN®

4U8N





MODEL	SYS-F511E2-RT	SYS-F521E3-RTB
Processor Support	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)†	Single 5th/4th Gen Intel® Xeon® Scalable processor Up to 350W TDP (air cooled)†
Serverboard	SUPER®® X13SEFR-A	SUPER® X13SEFR-A
Chipset	Intel® C741	Intel® C741
System Memory (Max.)	16 DIMM slots; up to 4TB DDR5-5600MT/s	16 DIMM slots; up to 4TB DDR5-5600MT/s
Expansion Slots	2 AIOM slots 1 PCIe 5.0 x16 LP slot 2 M.2 slots	2 AIOM slots 1 PCIe 5.0 x16 LP slot 2 M.2 slots
Onboard Storage Controller	Intel® SATA	Intel® SATA
Connectivity	1 1GbE RJ45 (BMC) port via AlOM	1 1GbE RJ45 (BMC) port via AIOM
VGA/Audio	1 VGA port, Aspeed AST2600 BMC	1 VGA port, Aspeed AST2600 BMC
Management	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	Intel® Node Manager; IPMI 2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	6 hot-swap 2.5" NVMe/SATA/SAS drive bays; 8x 2.5" NVMe hybrid; 8x 2.5" 7mm drive bays	8 hot-swap 3.5" NVMe/SATA/SAS drive bays; 8x 2.5" NVMe hybrid; 8x 2.5" 7mm drive bays
Peripheral Bays	None	None
Power Supply	Redundant 2000W Titanium level (96%)	Redundant 2000W Titanium level (96%)
Cooling System	4 heavy duty 4cm fans	4 heavy duty 4cm fans
Form Factor	4U Rackmount Enclosure: 448 x 177 x 737mm (17.63" x 6.96" x 29") Package: (28.3" x 15" x 42.4")	4U Rackmount Enclosure: 448 x 177 x 737mm (17.63" x 6.96" x 29") Package: (28.3" x 15" x 42")



NEW!

5th/4th Gen Intel[®] Xeon[®]

Scalable

processors Supported



8 Nodes, Rear IO

8 Nodes, Front I/O





4 Nodes, Rear IO	
	1





MODEL	AS -F1114S-FT	AS -F1114S-RNTR	AS -F2014S-RNTR
Processor Support	Single AMD EPYC™ 7003/7002 Series Processor*	Single AMD EPYC™ 7003/7002 Series Processor*	Single AMD EPYC™ 7003/7002 Series Processor*
Serverboard	SUPER® H12SSFF-AN6	SUPER® H12SSFR-AN6	SUPER® H12SSFR-AN6
System Memory (Max.)	Up to 4TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 16 DIMM slots	Up to 2TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 8 DIMM slots	Up to 2TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 8 DIMM slots
Expansion Slots	1 PCle 4.0 x16 (AIOM) 2 PCle 4.0 x16 (LP) per node	FatTwin® Rear IO: PCIe 4.0 x16 LP Riser and PCIe 4.0 x8 Internal RAID AOC	FatTwin [®] Rear IO: PCIe 4.0 x16 LP Riser and PCIe 4.0 x8 Internal RAID AOC
Onboard Storage Controller	NVMe and SATA3	NVMe and SATA3	NVMe and SATA3
Connectivity	AIOM Network Card For Flexible Networking Options (not included, must 1 per Node)	AIOM Network Card For Flexible Networking Options (not included, must add 1 per node)	AIOM Network Card For Flexible Networking Options (not included, must add 1 per node)
VGA/Audio	1 VGA; Aspeed AST2600 BMC per node	1 VGA, Aspeed AST2600 BMC per node	1 VGA, Aspeed AST2600 BMC per node
Management	IPMI 2.0, KVM with dedicated LAN, SSM, SUM SuperDoctor® 5, Watch Dog	IPMI 2.0, KVM with dedicated LAN, SSM, SUM SuperDoctor® 5, Watch Dog	IPMI 2.0, KVM with dedicated LAN, SSM, SUM SuperDoctor® 5, Watch Dog
Drive Bays	2-4x 2.5" SATA3/NVMe drive bays per node	4 hot-swap 2.5" SATA with 2 hot-swap 2.5" SATA/NVMe drive bays per node	8 Hot-swap 3.5" SATA drive bays per node
Power Supply	2000W or above Redundant Power Supplies with PMBus	Redundant 2200W Titanium Level (96%) power supplies (Full redundancy based on configuration and application load)	Redundant 2200W Titanium Level (96%) (Full redundancy based on configuration and application load)
Cooling System	8x 8cm 13.5k RPM rear fans per enclosure	3x 4cm 17.6K RPM	2x 80mm heavy duty PWM fans
Form Factor	4U (8-node) Rackmount 448 x 177 x 737mm (17.63" x 6.96" x 29")	4U (8-node) Rackmount 447 x 177 x 730mm (17.6" x 7" x 28.75")	4U (4-node) Rackmount 447 x 177 x 730mm (17.6" x 7" x 28.75")

* AMD EPYC[™] 7003 Series Processor with AMD 3D V-Cache[™] Technology requires BIOS version 2.3 or newer.



X13 High Availability Dual-Port Storage Server



Intel[®] Xeon[®] Scalable processors Supported





Gen 4 JBOF



MODEL	SSG-221E-DN2R24R	SSG-136R-4MU32JBF
Processor Support	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors	N/A
Serverboard	SUPER [®] X13SEB-TF	SUPER [®] BPN-NVME4-136PL-J
Chipset	System on Chip	System on Chip
System Memory (Max.)	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM/LRDIMM	N/A
Expansion Slots	Default 2 PCIe 5.0 x16 HHHL slot(s) 2 PCIe 5.0 x8 HHHL slot(s)	Default • 2 PCIe 4.0 x16 FHHL slot(s)
Onboard Storage Controller		
Connectivity	Via AIOM	2 RJ45 1GbE with Realtek
VGA/Audio	1 VGA port(s)	N/A
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)	N/A
Drive Bays	Default: Total 24 bay(s) 24 front hot-swap 2.5" PCIe 5.0 NVMe drive bay(s) M2: 2 M.2 NVMe/SATA slot(s) (M-key 2280/22110)	Default: Total 32 bay(s) 32 front hot-swap 2.5" NVMe drive bay(s)
Peripheral Bays	N/A	N/A
Power Supply	2x 2000W Redundant Titanium Level power supplies	2x 1000W Redundant Titanium Level power supplies
Cooling System	6 Heavy Duty 6cm Fan(s)	8 Heavy Duty 4cm Fan(s)
Form Factor	2U Rackmount	1U Rackmount



X12 Enterprise Storage Server

41124x Drives 4U 36x Drives 3rd Gen Intel[®] Xeon[®] Scalable processors Supported SSG-640P-E1CR36H SSG-640P-E1CR24H MODEL SSG-640P-E1CR24L SSG-640P-E1CR36L 3rd Gen Intel® Xeon® Scalable processors 3rd Gen Intel® Xeon® Scalable processors Dual Socket LG-4189 (Socket P+) supported Dual Socket LG-4189 (Socket P+) supported **Processor Support** TDP up to 270W CPU; up to 11.2GT/s TDP up to 270W CPU; up to 11.2GT/s Appliance Optimized Storage Building Blocks Corporate Database Corporate Database Database Processing & Storage Database Processing & Storage **Key Applications** HPC, Data Center HPC, Data Center iSCSI SAN iSCSI SAN Enterprise Server Enterprise Server Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Server remote management: IPMI 2.0/KVM over LAN/Media over LAN Onboard 1 M.2 NVMe/SATA On board 1 M.2 NVMe/SATA • Dual socket 3rd Gen Intel® Xeon® Scalable processors, up to 72 Cores Outstanding Dual socket 3rd Gen Intel® Xeon® Scalable processors, up to 72 Cores 4 PCI-E 4.0 x16 Slots + 2 PCI-E 4.0 x8 Slots Features 4 PCI-E 4.0 x16 Slots + 2 PCI-E 4.0 x8 Slots 32 Hot-swap 3.5" SAS3/SATA3 drive bays + 4 NVME/ SAS3/SATA3 Drive 24 Hot-swap 3.5" SAS3/SATA3 drive bays Bays 16 ECC DDR4-3200:LRDIMM/RDIMM; +2 Intel® DCPMM 16 ECC DDR4-3200:LRDIMM/RDIMM; +2 Intel® DCPMM Serverboard SUPER X12DPi-NT6 SUPER X12DPi-NT6 Intel® C621A Intel[®] C621A Chipset 16 DIMM slots 16 DIMM slots System Memory Up to 18TB Intel® DCPMM, DDR4-2666MHz Up to 18TB Intel® DCPMM, DDR4-2666MHz (Max.) Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz 2 PCI-E 4.0 x8 LP slot(s) 2 PCI-E 4.0 x8 LP slot(s) **Expansion Slots** 4 PCI-E 4.0 x16 LP slot(s) 4 PCI-E 4.0 x16 LP slot(s) -E1CR24H: Intel® SATA Broadcom® AOC-S3908L-H8IR -E1CR36H: Intel® SATA Broadcom® AOC-S3908L-H8IR **Onboard Storage** -E1CR24L: Intel® SATA Broadcom® AOC-S3808L-L8IT -E1CR36L: Intel® SATABroadcom® AOC-S3808L-L8IT Controller Connectivity 2x 10GbE RJ45 port(s) with Intel® Ethernet Controller X550 2x 10GbE RJ45 port(s) with Intel® Ethernet Controller X550 VGA/Audio 1 VGA port 1 VGA port IPMI 2.0; NMI; SUM; SuperDoctor[®] 5; Watch Dog IPMI 2.0; NMI; SUM; SuperDoctor[®] 5; Watch Dog Management 24x 3.5" hot-swap NVMe/SATA/SAS drive bays; 36x 3.5" hot-swap NVMe/SATA/SAS drive bays; 4x 3.5" NVMe hybrid; **Drive Bays** Optional RAID support via RAID/HBA controller AOC Optional RAID support via RAID/HBA controller AOC Peripheral Bays None None **Power Supply** Redundant 1200W Titanium level (96%) 1600W Redundant Power Supplies with PMBus **Cooling System** 5x 8cm heavy duty fan(s) 7x 8cm heavy duty fan(s) 4U Rackmount 4U Rackmount Form Factor Enclosure: (17.2" x 7" x 26.5") Enclosure: (17.2" x 7" x 27.5") Package: (27" x 15" x 39") Package: (27" x 15" x 39")

X12/H12 Enterprise Storage Server

High Capacity Storage	4U UP 36x Drives	
ASG-1014S-ACR12N4H	SSG-540P-E1CTR36H SSG-540P-E1CTR36L	
Single AMD EPYC™ 7003 or 7002 Series Processor*	3rd Gen Intel® Xeon® Scalable processors Single Socket LGA-4189 (Socket P+) supported TDP up to 270W;	
 Object Storage Scale-Out Density Database Applications Hadoop & Ceph storage solutions 	 Appliance Optimized Storage Database Processing & Storage Enterprise Server 	
 12x 3.5" hot-swap SAS3/SATA3 drive bays with Broadcom 3916 SAS3 IR mode controller 16x 4TB Registered ECC DDR4 3200MHz SDRAM 4x 2.5" 7mm hot-swap NVMe/SATA drive bays 3 PCI-E 4.0 x16 slots 2x 10GBase-T LAN Ports via Broadcom BCM57416 and 2x M.2 NVMe up to 110mm Internal Cable Arm 	 Expander chip and JBOD support, up to 36x SATA/SAS drives with PCI-E 4.0 SAS Controller 4U 36 Bay High Density Storage 2x optional Gen 4 NVMe drives; onboard 1x M.2 NVMe/SATA 	
SUPER® H12SSW-NTR	SUPER® X12SPI-TF	
	Intel® C621A	
Up to 4TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 3200MHz, in 16 DIMMs	8 DIMM slots Intel® DCPMM, DDR4-3200MHz ECC LRDIMM, DDR4-3200MHz ECC RDIMM, DDR4-3200MHz	
2 PCI-E 4.0 x16 (FHHL); 1 PCI-E 4.0 x8 (LP)	2 PCI-E 4.0 x16 LP slot(s) 2 PCI-E 4.0 x8 LP slot(s)	
NVMe/SATA drive bays via CPU	-E1CTR36H: Broadcom® 3908 -E1CTR36L: Broadcom® 3808	
2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 5 USB 3.0 ports (4 rear, 1 Type A)	2x 10GbE RJ45 port(s) with Intel® Ethernet Controller X550	
1 VGA; 1 ASPEED AST2600 BMC	1 onboard VGA port	
Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Intel® Node Manager; IPMI2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM	
12x 3.5" SAS/SATA drive bays; 4x 7mm 2.5" NVMe/SATA drive bays	36x 3.5" hot-swap SATA/SAS drive bays;	
N/A	2x 2.5" SATA or NVMe (optional)	
800W redundant Platinum Level high-efficiency power supplies	Redundant 1200W Titanium level (96%)	
6x 40x40x56mm counter-rotation PWM fans	7x (8cm x 8cm x 3.8cm) heavy duty fan(s)	
1U Rackmount 447 x 43 x 940mm (17.6" x 1.7" x 37")	4U Rackmount Enclosure: 437 x 178 x 699mm (17.2" x 7" x 27.5") Package: 656 x 445 x 1003mm (27" x 17.5" x 39.5")	
	High Capacity Storage ASC-1014S-ACR12N4H Single AMD EPYC" 7003 or 7002 Series Processor* Object Storage Scale-Out Density Database Applications Hadoop & Ceph storage solutions 12X 3.5" hot-swap SAS3/SATA3 drive bays with Broadcom 3916 SAS3 IR mode controller 16x 4TB Registered ECC DDR4 3200MHz SDRAM 4.42.5." Trum hot-swap NVMe/SATA drive bays 15X 1GBase-T LAN Ports via Broadcom BCM57416 and 2x M.2 NVMe up to 100mm 1010mm 110mm Vip to 4TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 3200MHz, in 16 DIMMs 2PCIE-4 0.x16 (FHHL); 1PCIE 4.0.x16 (FHHL); 1PCIE 4.0.x16 (FHHL); 1PCIE 4.0.x16 (FHHL); 1VMor/SATA drive bays via CPU 210GBase-T Ethernet via Broadcom BCM57416 Controller; 210SB 30 ports (4 rear, Type A) 1VMA: A ATA drive bays via CPU 210GBase-T Ethernet via Broadcom BCM57416 Controller; 21X 3.5" SAS/SATA drive bays; 4X 7mm 2.5" NVMe/SATA drive bays; 4X 7mm 2.5	



X12 Cloud Scale High Capacity Storage Server

4U 60x Top-loading

3rd Gen Intel[°] Xeon[°] Scalable processors Supported





4U 90x Top-loading

MODEL	SSG-640SP-E1CR60	SSG-640SP-E1CR90
Processor Support	3rd Gen Intel® Xeon® Scalable processors Dual Socket LG-4189 (Socket P+) supported TDP up to 205W CPU; up to 11.2GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LG-4189 (Socket P+) supported TDP up to 205W CPU; up to 11.2GT/s
Key Applications	 Government Data Protection Content Repositories Financial Services & Healthcare Image Archives Telco & Cloud Service Providers HPC and Al/ML Workloads Big Data & Analytics, Data Lake 	 Government Data Protection Content Repositories Financial Services & Healthcare Image Archives Telco & Cloud Service Providers HPC and AI/ML Workloads Big Data & Analytics, Data Lake
Outstanding Features	 Single Node with High Density in 4U rack space Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN Optional 4 NVMe SSD drives for caching Excellent Serviceability with Modular Design Drive Controller support via Broadcom[®] 3916 HW RAID or 3616 IT Mode 	 Single Node with High Density in 4U rack space Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN Optional 4 NVMe SSD drives for caching Excellent Serviceability with Modular Design Drive Controller support via Broadcom[®] 3916 HW RAID or 3616 IT Mode
Serverboard	SUPER [®] X12DSC-6	SUPER® X12DSC-6
Chipset	Intel® C621A	Intel® C621A
System Memory (Max.)	16 DIMM slots Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz	16 DIMM slots Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz
Expansion Slots	3 PCI-E 4.0 x16 LP slot(s)	3 PCI-E 4.0 x16 LP slot(s)
Onboard Storage Controller	Intel® SATA Broadcom® AOM-S3616-S-O	Intel® SATA Broadcom® AOM-S3616-S-O
Connectivity	2x 10GbE RJ45 port(s) with X550	2x 10GbE RJ45 port(s) with X550
VGA/Audio	1 VGA port	1 VGA port
Management	IPMI 2.0; NMI; SUM; SuperDoctor [®] 5; Watch Dog	IPMI 2.0; NMI; SUM; SuperDoctor [®] 5; Watch Dog
Drive Bays	60x 3.5" hot-swap SATA3/SAS3 drive bays; 4x 2.5" NVMe dedicated; Optional RAID support via RAID/HBA controller AOC 2x 2.5" 7mm drive bays	90x 3.5" hot-swap SATA3/SAS3 drive bays; 4x 2.5" NVMe dedicated; Optional RAID support via RAID/HBA controller AOC 2x 2.5" 7mm drive bays
Peripheral Bays	None	None
Power Supply	2000W Redundant Power Supplies with PMBus	2600W Redundant Power Supplies with PMBus
Cooling System	6x 8cm heavy duty fan(s)	6x 8cm heavy duty fan(s)
Form Factor	4U Rackmount Enclosure: (17.6" x 7" x 34.1") Package: (31.89" x 29.92" x 44.88")	4U Rackmount Enclosure: (17.6" x 7" x 42.1") Package: (35.82" x 29.92" x 53.15")

X12 Cloud Scale High Capacity Storage Server

4U 60x Top-loading





4U 90x Top-loading

MODEL	SSG-640SP-DE1CR60	SSG-640SP-DE1CR90
Processor Support	3rd Gen Intel® Xeon® Scalable processors Dual Socket LG-4189 (Socket P+) supported TDP up to 205W CPU; up to 11.2GT/s	3rd Gen Intel® Xeon® Scalable processors Dual Socket LG-4189 (Socket P+) supported TDP up to 205W CPU; up to 11.2GT/s
Key Applications	 Government Data Protection Content Repositories Financial Services & Healthcare Image Archives Telco & Cloud Service Providers HPC and Al/ML Workloads Big Data & Analytics, Data Lake 	 Government Data Protection Content Repositories Financial Services & Healthcare Image Archives Telco & Cloud Service Providers HPC and AI/ML Workloads Big Data & Analytics, Data Lake
Outstanding Features	 Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN Excellent Serviceability with Modular Node Design Dual Node Twin Architecture, 2x the Compute (Each node controls 30 drives) Drive Controller support via Broadcom[®] 3916 HW RAID or 3616 IT Mode 	 Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN Excellent Serviceability with Modular Node Design Dual Node Twin Architecture, 2x the Compute (Each node controls 45 drives) Drive Controller support via Broadcom[®] 3916 HW RAID or 3616 IT Mode
Serverboard	SUPERe® X12DSC-6	SUPER® X12DSC-6
Chipset	Intel® C621A	Intel® C621A
System Memory (Max.)	16 DIMM slots Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz	16 DIMM slots Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz
Expansion Slots	3 PCI-E 4.0 x16 LP slot(s)	3 PCI-E 4.0 x16 LP slot(s)
Onboard Storage Controller	Intel® SATA Broadcom® AOM-S3616-S-O	Intel® SATA Broadcom® AOM-S3616-S-O
Connectivity	2x 10GbE RJ45 port(s) with X550	2x 10GbE RJ45 port(s) with X550
VGA/Audio	1 VGA port	1 VGA port
Management	IPMI 2.0; NMI; SUM; SuperDoctor [®] 5; Watch Dog	IPMI 2.0; NMI; SUM; SuperDoctor [®] 5; Watch Dog
Drive Bays	60x 3.5" hot-swap SATA3/SAS3 drive bays; Optional RAID support via RAID/HBA controller AOC 4x 2.5" 7mm drive bays	90x 3.5" hot-swap SATA3/SAS3 drive bays; Optional RAID support via RAID/HBA controller AOC 4x 2.5" 7mm drive bays
Peripheral Bays	None	None
Power Supply	2600W Redundant Power Supplies with PMBus	2600W Redundant Power Supplies with PMBus
Cooling System	6x 8cm heavy duty fan(s)	6x 8cm heavy duty fan(s)
Form Factor	4U Rackmount Enclosure: (17.6" x 7" x 34.1") Package: (31.89" x 29.92" x 44.88")	4U Rackmount Enclosure: (17.6″ x 7″ x 42.1″) Package: (35.82″ x 29.92″ x 53.15″)

3rd Gen Intel[°] Xeon[°] Scalable processors Supported

X12 Cloud Scale High Capacity Storage Server

4U 60x Top-loading 4U 90x Top-loading 3rd Gen Intel[®] Xeon[®] Scalable processors Supported MODEL SSG-640SP-DE2CR60 SSG-640SP-DE2CR90 3rd Gen Intel® Xeon® Scalable processors 3rd Gen Intel® Xeon® Scalable processors Processor Support Dual Socket LG-4189 (Socket P+) supported Dual Socket LG-4189 (Socket P+) supported TDP up to 205W CPU; up to 11.2GT/s TDP up to 205W CPU; up to 11.2GT/s Government Data Protection Government Data Protection Content Repositories Content Repositories · Financial Services & Healthcare Image Archives · Financial Services & Healthcare Image Archives **Key Applications** Telco & Cloud Service Providers . **Telco & Cloud Service Providers** · HPC and AI/ML Workloads HPC and AI/ML Workloads Big Data & Analytics, Data Lake Big Data & Analytics, Data Lake • • Server remote management: IPMI 2.0 / KVM over LAN / Media over Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN LAN • Excellent Serviceability with Modular Node Design · Excellent Serviceability with Modular Node Design Outstanding Features Dual Node (HA), Enterprise High Availability (SBB) Architecture Dual Node (HA), Enterprise High Availability (SBB) Architecture (shared storage); 2 Hot Pluggable Nodes (shared storage); 2 Hot Pluggable Nodes Drive Controller support via Broadcom®3616 IT Mode Drive Controller support via Broadcom® 3616 IT Mode SUPER X12DSC-6 SUPER X12DSC-6 Serverboard Chipset Intel® C621A Intel® C621A 16 DIMM slots 16 DIMM slots System Memory Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz Up to 4TB ECC RDIMM/LRDIMM, DDR4-3200MHz (Max.) **Expansion Slots** 3 PCI-E 4.0 x16 LP slot(s) 3 PCI-E 4.0 x16 LP slot(s) Onboard Storage Intel[®] SATA Intel[®] SATA Controller Broadcom® AOM-S3616-S-O Broadcom® AOM-S3616-S-O Connectivity VGA/Audio 1 VGA port 1 VGA port Management IPMI 2.0; NMI; SUM; SuperDoctor® 5; Watch Dog IPMI 2.0; NMI; SUM; SuperDoctor® 5; Watch Dog 90x 3.5" hot-swap SATA3/SAS3 drive bays; 60x 3.5" hot-swap SATA3/SAS3 drive bays; Drive Bays Optional RAID support via HBA controller AOC Optional RAID support via HBA controller AOC 4x 2.5" 7mm drive bays 4x 2.5" 7mm drive bays Peripheral Bays None None **Power Supply** 2600W Redundant Power Supplies with PMBus 2600W Redundant Power Supplies with PMBus **Cooling System** 6x 8cm heavy duty fan(s) 6x 8cm heavy duty fan(s) 4U Rackmount 4U Rackmount Form Factor Enclosure: (17.6" x 7" x 34.1") Enclosure: (17.6" x 7" x 42.1") Package: (31.89" x 29.92" x 44.88") Package: (35.82" x 29.92" x 53.15")

<i>4U Top Loading Storage</i> 60x Hot-Swap 2.5"/3.5" bays		4U Top Loading Storage 90x Hot-Swap 2.5"/3.5" bays	
MODEL	CSE-947SE1C-R1K66JBOD CSE-947SE2C-R2K66JBOD	CSE-947HE1C-R2K05JBOD CSE-947HE2C-R2K05JBOD	
Key Applications	 Large File Systems, Object Storage, Archives, Backup Images, and Multimedia Repositories 	 Large File Systems, Object Storage, Archives, Backup Images, and Multimedia Repositories 	
Outstanding Features	 4U JBOD with 60 bays High Density and High Capacity Single/Dual-path Storage Enclosure Top Loading drive access 12Gb/s SAS3 performance SCSI Enclosure Services (SES 4.0) compliant Hot-swappable Expanders and Hot-swappable Tool-less Modular Design Cable Management Arm not needed Tool-less drive tray with drive LED indicator Qualified with HBA and RAID Controllers AOC-SAS3-9500-8E, AOC-SAS3-9500-16E, AOC-SAS3-9500-818E, AOC-SAS3-9405W-16E 	 4U JBOD with 90 bays High Density and High Capacity Single/Dual-path Storage Enclosure Top Loading drive access 12Gb/s SAS3 performance SCSI Enclosure Services (SES 4.0) compliant Hot-swappable Expanders and Hot-swappable Tool-less Modular Design Cable Management Arm not needed Tool-less drive tray with drive LED indicator Qualified with HBA and RAID Controllers AOC-SAS3-9500-8E, AOC-SAS3-9500-16E, AOC-SAS3-9500-8I8E, AOC-SAS3-9405W-16E 	
Onboard Storage Controller	Single or Dual 30-port Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput	Single or Dual 30-port Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput	
Connectivity	6 or 12 x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	6 or 12 x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	
Management	Dedicated IPMI RJ45 management port Redfish OOB management protocol support	Dedicated IPMI RJ45 management port Redfish OOB management protocol support	
Drive Bays	60 x 3.5" hot-swap drive bays (2.5" drive carriers supported)	90 x 3.5" hot-swap drive bays (2.5" drive carriers supported)	
Power Supply	1600W (1+1) Redundant Power Supplies Titanium Certified	2000W (1+1) Redundant Power Supplies Titanium Certified	
Cooling System	6x 8080mm rear hot-swap fans	6x 8080mm rear hot-swap fans	
Form Factor	4U rack size, 32" depth	4U rack size, 43.3″ depth	



4U Top Loading 60x 3.5" drives

4U Top Loading 45x 3.5" drives

MODEL	CSE-946LE1C-R1K66JBOD	CSE-946SE1C-R1K66JBOD CSE-946SE2C-R1K66JBOD	CSE-946ED-R2KJBOD
Key Applications	 Large File Systems, Object Storage, Archives, Backup Images, and Multimedia Repositories 	 Large File Systems, Object Storage, Archives, Backup Images, and Multimedia Repositories 	Large File Systems, Object Storage, Archives, Backup Images, and Multimedia Repositories
Outstanding Features	 4U JBOD with 45 bays Top Loading drive access 12Gb/s SAS3 performance Slide Rails and Cable Management Arm included Support NTP for time synchronization & RTC battery backup Support front LCD panel for system status & error info (Option) Tool-less drive tray with HDD LED indicator Qualified with 2-port HBA and RAID Controller 	 4U JBOD with 60 bays High Density and High Capacity Single/Dualpath Storage Enclosure Top Loading drive access 12Gb/s SAS3 performance SCSI Enclosure Services (SES 3.0) compliant Slide Rails and Cable Management Arm included Support NTP for time synchronization & RTC battery backup Support front LCD panel for system status & error info (Option) Tool-less drive tray with drive LED indicator Qualified with 2-port HBA and RAID Controller 	 4U JBOD with 90 bays High Density and High Capacity Dual-path Storage Enclosure High Performance up to 20+ GB/s data transfer rate Top Loading drive access 12Gb/s SAS3 performance SCSI Enclosure Services (SES 3.0) compliant Flexible to configure up to 4 Hosts HDD Zoning and individual HDD power cycling Hot-swappable Expanders and Hot- swappable Tool-less Modular Design Slide Rails and Cable Management Arm included Tool-less drive tray with drive LED indicator Qualified with 2-port HBA and RAID Controller
Onboard Storage Controller	Single 45-port Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput	Single or Dual 30-port Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput	Dual 30-port Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput
Connectivity	4x Mini-SAS HD ports for Internal / External Cascading Expander	4 or 8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
VGA/Audio	N/A	N/A	N/A
Management	1x IPMI port for Remote System Power on/off and system monitoring	1x IPMI port for Remote System Power on/off and system monitoring	1x IPMI port for Remote System Power on/off and system monitoring
Drive Bays	45 x 3.5" hot-swap drive bays (2.5" drive carriers supported)	60 x 3.5" hot-swap drive bays (2.5" drive carriers supported)	90 x 3.5" hot-swap drive bays (2.5" drive carriers supported)
Power Supply	1600W (1+1) Redundant Power Supplies Platinum Certified	1600W (1+1) Redundant Power Supplies Platinum Certified	1000W (2+2) Redundant Power Supplies Titanium Certified
Cooling System	5x 80x38mm rear hot-swap fans	5x 80x38mm rear hot-swap fans	5 x 8080mm heavy duty fan(s) with PWM fan(s) speed control
Form Factor	4U rack size, 26" or 32.5″ depth	4U rack size, 30.2" or 35.2″ depth	4U rack size, 35.66" or 41" depth

4U Top Loading 90x 3.5" drives

4U Storage Expansion



4U Front & Rear Access



4U Front & Rear Access

Front - 24x 3.5" bays Rear - 20x 3.5″ bays



Rear - 24x 2.5" bays

3U Storage Expansion

MODEL	CSE-847E1C-R1K23JBOD CSE-847E2C-R1K23JBOD	CSE-417BE1C-R1K23JBOD CSE-417BE2C-R1K23JBOD	CSE-836BE1C-R1K03JB0D CSE-836BE2C-R1K03JB0D	CSE-846BE1C-R1K03JB0D CSE-846BE2C-R1K03JB0D
Key Applications	Unstructured data and Growing File Systems	Unstructured data and Growing File Systems	 Database and Collaboration Stores 	Unstructured data and Growing File Systems
Outstanding Features	 4U JBOD with 44 bays Front and Rear access to drive bays 12Gb/s SAS3 performance Support NTP for time synchronization & RTC battery backup Qualified with 2-port HBA and RAID Controller 	 4U JBOD with 72 bays Front and Rear access to drive bays 12Gb/s SAS3 performance Support NTP for time synchronization & RTC battery backup Qualified with 2-port HBA and RAID Controller 	 3U JBOD with 16 bays Front access to drive bays 12Gb/s SAS3 performance Support NTP for time synchronization & RTC battery backup Qualified with 2-port HBA and RAID Controller 	 4U JBOD with 24 bays Front access to drive bays 12Gb/s SAS3 performance Support NTP for time synchronization & RTC battery backup Qualified with 2-port HBA and RAID Controller
Onboard Storage Controller	SAS3 (12Gbps) backplane with dual expanders supports SAS3 drives for load balancing and redundancy	SAS3 (12Gbps) single or dual expander backplane	Single or Dual Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput	Single Expander Backplane Board supports SAS3 HDDs with 12Gb/s throughput
Connectivity	8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	4 or 8 x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	4x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
Management	1x IPMI port for Remote System Power on/off and system monitoring	1x IPMI port for Remote System Power on/off and system monitoring	1x IPMI port for Remote System Power on/off and system monitoring	1x IPMI port for Remote System Power on/off and system monitoring
Drive Bays	44 (24 front + 20 rear) hot-swap drive bays (2.5" drive carriers supported)	72x (48 front + 24 rear) 2.5" hot- swap drive bays	16 x 3.5" hot-swap drive bays (2.5" drive carriers supported)	24 x 3.5" hot-swap drive bays (2.5" drive carriers supported)
Power Supply	1280W (1+1) Redundant Power Supplies Titanium Certified	1200W (1+1) Redundant Power Supplies Titanium Certified	1000W (1+1) Redundant Power Supplies Titanium certified	1000W (1+1) Redundant Power Supplies Titanium certified
Cooling System	7x 80mm rear hot-swap fans	7x 80mm rear hot-swap fans	5 hot-swap fans (3 cooling fans, 2 exhaust fans)	5 hot-swap fans (3 cooling fans, 2 exhaust fans)
Form Factor	4U rack size, 27.5″ depth	4U rack size, 27.5" depth	3U rack size, 25.5" depth	4U rack size, 26" depth



2U Storage Expansion

2U Storage Expansion

			AMININE AMININE AMININE AMININE
MODEL	CSE-216BE1C-R609JBOD CSE-216BE2C-R609JBOD	CSE-826BE1C-R609JBOD CSE-826BE2C-R609JBOD	CSE-826SE1C-R1K02JBOD
Key Applications	 Microsoft Apps and Virtualization data backend 	 Microsoft Apps and Virtualization data backend 	 Microsoft Apps and Virtualization data backend
Outstanding Features	 2U JBOD with 24 bays Front access to drive bays 12Gb/s SAS3 performance Support NTP for time synchronization & RTC battery backup Qualified with 2-port HBA and RAID Controller 	 2U JBOD with 12 bays Front access to drive bays 12Gb/s SAS3 performance Support NTP for time synchronization & RTC battery backup Qualified with 2-port HBA and RAID Controller 	 2U JBOD with 24 bays Front and top access to drive bays 12Gb/s SAS3 performance Support NTP for time synchronization & RTC battery backup Qualified with 2-port HBA and RAID Controller
Onboard Storage Controller	Single or Dual Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput	Single or Dual Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput	Single Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput
Connectivity	4 or 8 x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	4 or 8 x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	4 x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements
Management	1x IPMI port for Remote System Power on/off and system monitoring	1x IPMI port for Remote System Power on/off and system monitoring	1x IPMI port for Remote System Power on/off and system monitoring
Drive Bays	24 x 3.5" hot-swap drive bays (2.5" drive carriers supported)	12 x 3.5" hot-swap drive bays (2.5" drive carriers supported)	24 (12 front + 12 middle) hot-swap drive bays (2.5" drive carriers supported)
Power Supply	600W (1+1) Redundant Power Supplies Platinum certified	600W (1+1) Redundant Power Supplies Platinum certified	1000W (1+1) Redundant Power Supplies Titanium certified
Cooling System	3 hot-swap fans	3 hot-swap fans	5 hot-swap fans
Form Factor	2U rack size, 24.8" depth	2U rack size, 25.5" depth	2U rack size, 34" or 41" depth



2U Storage Expansion



Global Expansion

Providing Greater Economies of Scale and Accelerated Support to Data Center, Cloud Computing, AI, Enterprise IT, HPC, 5G, Hyperscale, and Embedded Solutions Customers Worldwide





America

- Supermicro's Headquarters expansion: Over 1.5 million square foot Green Computing Park in San Jose, California signals the company's increasing leadership in the IT industry
- One of the largest high-tech R&D, manufacturing, and business hubs in Silicon Valley
- · East Coast Sales and Service Office



Silicon Valley Expanded manufacturing, command center

European Branch

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's-Hertogenbosch, The Netherlands



APAC

Supermicro's Asia Science and Technology Park is a key milestone in the company's growth as a true global leader in the development of advanced, power saving computing technologies



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Supermicro Worldwide

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