



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, CCSP Storage and Enterprise Applications

JUNE 2026



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. These are ideal for 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 AI 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/en/products/storage

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®, AMD EPYC™ and NVIDIA 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®-4 DPU. Other certifications include VMware vSAN, Red Hat Linux, and Microsoft Azure Stack HCI. Supermicro sells licenses for popular software-defined 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 one-stop shopping and support possible.

Support for latest Storage Media

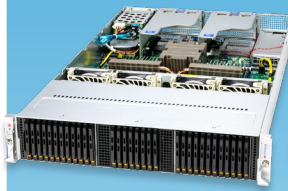
Supermicro works closely with all of the leading SSD manufacturers including Micron, Kioxia, Phison, Samsung, Sandisk, SK Hynix, Solidigm and leading disk drive manufacturers Seagate, Toshiba and Western Digital to quickly qualify the latest SSD and disk drive capacities.

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.

PETASCALE ALL-FLASH



Petascale provides industry-leading All-Flash storage capacity and performance in 1U and 2U form-factors. 36 NVMe E3.S hot-swappable drives, the 2U Petascale supports and the 1U Petascale supports up to 24 NVMe E1.S drive bays. Petascale systems are ideal for high performance scale-out file systems used in demanding applications such as AI and ML training, HPC workloads and high-rate transaction-processing.

- Revolutionary storage performance and capacity
- Highest IOPS and BW performance
- All-flash EDSFF NVMe
- Up to 36 E3.S NVMe SSDs
- 1U and 2U Form Factors
- Single or Dual Intel®, AMD and NVIDIA CPUs

CLOUD SCALE HIGH-DENSITY



Cloud scale systems are optimized for scale-out object storage and scale-out high capacity file systems. These high capacity 2U and 4U Storage servers offer the maximum in capacity with up to 90 3.5" HDDs in a 4U top-loading chassis and a range of processing offerings from single node, single socket CPUs to dual-node, dual socket systems. The 2U Simply Double storage servers have the highest capacity 2U systems in the industry using Supermicro's innovative mid-chassis access bays and front access bays.

- Maximum capacity for cloud-scale storage in 4U FF
- Highest storage capacity and \$/TB value
- Single node and dual-server systems
- 60, 90 drives in 4U
- Single or Dual Intel® CPUs

HIGH AVAILABILITY DUAL-PORT



The High Availability Dual-Port Storage Server is designed as the host storage server for a scale-up file system with reliability in mind. With two separate servers in an active/passive fail-over configuration and all NVMe media accessible to both servers, this system is designed to continue running even if a fault occurs in one of the storage servers.

- High Availability Dual Port (Active-Active or Active-Passive)
- Shared Everything Architecture (Storage Bridge Bay)
- All-flash U.2 NVMe
- Up to 24 U.2 NVMe SSDs
- 2U Form Factor
- Single Intel® CPU, dual server configuration

MULTI-NODE SYSTEMS



Supermicro's Twin family of high-density multi-node servers including the BigTwin®, GrandTwin® and FlexTwin® families have two, four or eight server nodes in a 2U or 4U chassis enabling a highly compact clustered storage system in a single chassis. This is ideal for scale-out file systems using NVMe or 3.5" disk media for moderate total capacities.

- Cluster-in-a-box for entry object and parallel file systems
- Compact multi-node scale-out clusters in a single chassis
- Four node 2-way servers in a 2U chassis
- Up to 12x2.5" bays or 6x3.5" NVMe/SAS/SATA bays per node
- Dual Intel® or AMD CPUs

ENTERPRISE



Supermicro's family of Enterprise Storage Servers includes products ranging from 1U to 4U which support disk, SSDs and both media. These systems provide flexible options for VARs and system builders to add media, I/O cards and software to create custom hardware solutions. What all of these systems have in common are easy front or sp. access, short chassis depths and I/O options for front and rear service. These products include the popular, 1U, 2U, 3U and 4U systems supporting a combination of disk and NVMe media.

- Optimized for enterprise data centers and edge deployments
- Front access, double-sided, and Simply Double product families
- 2U/3U/4U form factors
- 16-36 3.5" LFF Bays
- Single or dual Intel® and AMD CPUs

Petascade 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 1.9PB raw with 61.44TB SSDs

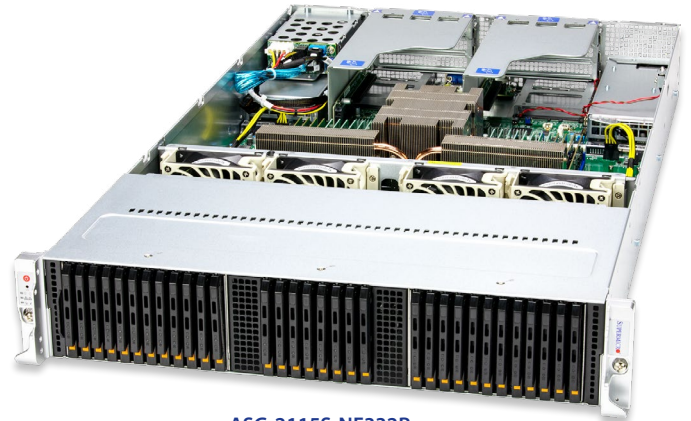
High density 1U Flash capacity with up to 16 E3.S hot-swap bays in a 1U system supporting up to 983TB raw with 61.44TB SSDs

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

Support for up to 4 CXL 3.0 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 5 Gen Intel® Xeon® or AMD EPYC™ 9005 series processors with up to 32 DDR5 DIMMS

Highest Performance and Density in an All-Flash Storage Server



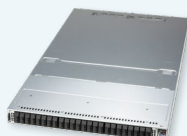
ASG-2115S-NE332R



SSG-122B-NE316R
1U 16x E3.S Bays (X14)



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



SSG-121E-NES24R
1U 24x E1.S Bays (X13)



SSG-221E-NE324R
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 1.9PB raw capacity (using 61.44TB 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 Intel® Xeon®, AMD EPYC™, and NVIDIA processors
- 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 3.0 memory expansion bays for memory intensive applications like in-memory databases and analytics

Optimized for:

- 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 hot-swap 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

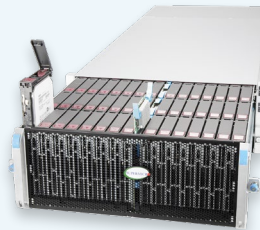
Supporting up to 2.16PB in 4U!



SSG-640SP-E1CR90



SSG-542B-E1CR60
60x 3.5" Bays (X14)



SSG-542B-DE1CR90
60x 3.5" Bays (X14)



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

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 2.8PB raw capacity (using 90 32TB drives)
- Support for latest PCIe Gen 5 interfaces for highest performance HBAs and NICs
- Support for up single Xeon6 in Top loading and Simply double and one AMD EPYC 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 disk-based direct attach storage system

Optimized for:

- 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

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, double-sided 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-522B-ACR12H
SSG-522B-ACR12L**

2U 12x 3.5" SAS/SATA Bays or 6x 3.5" NVMe (X14)



**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-542B-E1CR36H
SSG-542B-E1CR36L**

4U, 36x 3.5" SAS/SATA Bays and 2x 2.5" SATA Bays or 6x 3.5" NVMe Bays (X14)

Enterprise-Optimized Disk Storage

Supermicro's family of Enterprise-Optimized storage servers offer a range of form-factors 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 single Xeon6 and AMD EPYC 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

Optimized for:

- 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

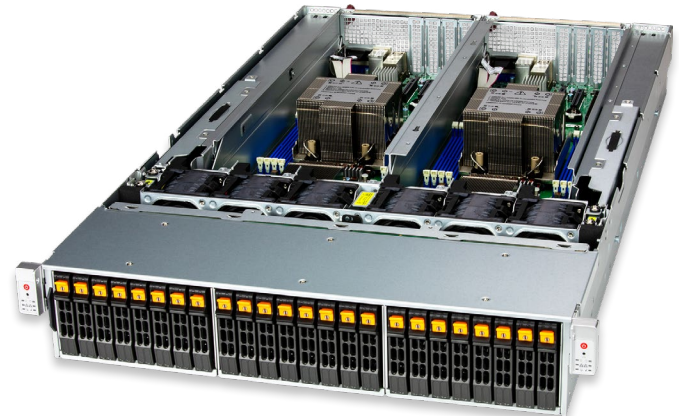
High Capacity NVMe Flash with up to 24 U.2 hot-swap bays in a 2U system supporting up to 1.474PB raw using 61.44TB SSDs

High availability redundant dual ported architecture with single Intel® 4th/5th Gen Xeon® processors for mission critical applications requiring failover redundancy 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 S 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 2.92TB capacity (using 122TB SSDs)
- Support for latest PCIe Gen 5 SSD interfaces for highest performance
- Support for up to 64 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

Optimized for:

- 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® 6th Gen/5th 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

BigTwin®



SYS-221BT-HNR

2U, four nodes, 6x 2.5" NVMe bays per node (X13)



SYS-221BT-DNTR

2U, two nodes, 12x 2.5" NVMe/SATA bays per node (X13)



SYS-211GT-HNTF

2U, four nodes, 4x 2.5" NVMe/SATA bays per node (X13)



AS-2115GT-HNTR

2U, four nodes, 6x 2.5" NVMe/SATA bays per node (H13)



SYS-F511E2-R2

4U, eight nodes, 6x 2.5" NVMe/SAS/SATA bays per node (X13)

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

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 2.9PB raw capacity (using 61.44TB 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

Optimized for:

- 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

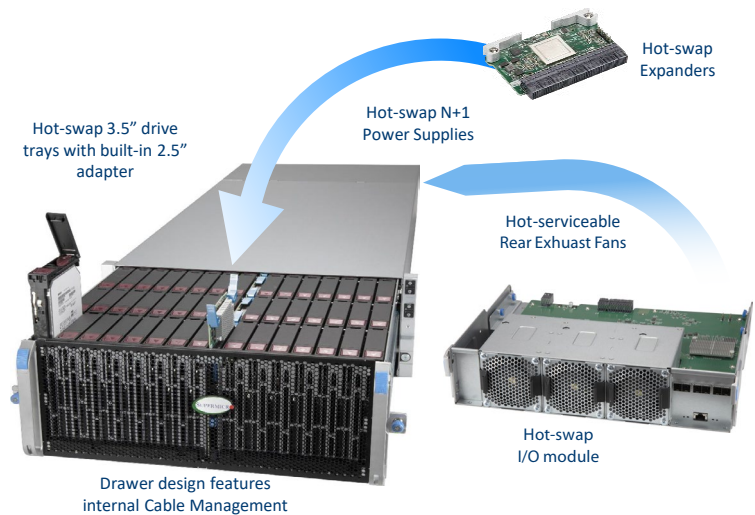
Best-in-class quality with tool-less tray for quick replacement of hot-swap drives

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

Supports up to 12Gbps SAS3 / 24 Gbps SAS4 in 2U, 3U or 4U rack sizes for 12- to 90-drive-bay modularity

Market-leading design for Ceph and other popular software

Top-Loading JBOD Storage Solution



Cost Effective Proven Solutions



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

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

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.

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
- AI 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.

Supermicro Software - Defined Storage Partners

 WEKA Parallel File Storage System	 VAST Unify storage, database, and compute platform for AI data center	 ddn Data Storage and Management Solution for AI and HPC OPs	 IBM The global data platform for AI and high-performance computing.
 HAMMERSPACE DATA IN MOTION Unify file access and automated data orchestration	 3eeGFS High-performance Scale-out Parallel File System	Hitachi Vantara VSP One for hybrid cloud data platform	 SCALITY Scalable S3 object storage
 Graid Technology Inc. Block Storage with NVMe RAID	 INNOR NVMe RAID block storage Data Protection	 lightbits Distributed Block Storage	 OSNEXUS Unified Storage Platform
 ceph Unified storage with object, block, and file interfaces	 Quantum Scale-Out Cloud/Object Storage	 STEELDOME Virtualization and Storage (HCI)	 VDURA Data infrastructure for AI and HPC
 CLOUDIAN Scale-Out Cloud/GPU Direct Object Storage	 MINIO High performance, distributed object storage system	 Qumulo Distributed File System	

X14 Petascale All-Flash Servers

(For Complete System Only)

NEW!

Intel® Xeon® 6
Processors
Supported

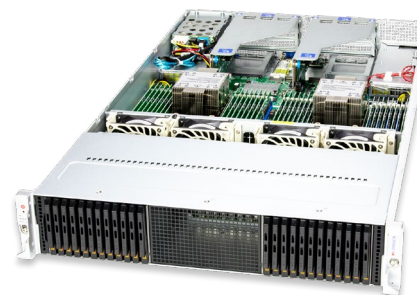


MODEL	SSG-122B-NE316R	SSG-222B-NE3X24R
Processor Support	Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache per CPU	Dual Socket E2 (LGA-4710) Intel® Xeon® 6 6700 series processors with E-cores Up to 144C/144T; Up to 108MB Cache per CPU
Serverboard	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 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) • 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 x8 FHHL slot(s) • 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option C • 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)
Onboard Storage Controller		
Connectivity		
VGA/Audio	1 VGA port	1 VGA port
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 PCIe 5.0 x4 NVMe drive bay(s) Option A: Total 32 bay(s) • 32 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bay(s) Option B: Total 24 bay(s) • 16 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bay(s) • 8 front fixed E3.S 2T PCIe 5.0 x8 CXL Type 3 drive bay(s) Option C: Total 16 bay(s) • 8 front hot-swap E3.S 1T PCIe 5.0 x4 NVMe drive bay(s) • 8 front fixed E3.S 2T PCIe 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

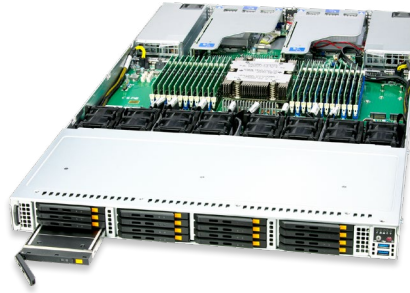


MODEL	SSG-121E-NE316R	SSG-221E-NE324R
Processor Support	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors
Serverboard	SUPER [®] X13DSF-A	SUPER [®] X13DSF-A
Chipset	Intel® C741	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	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 E3.5 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

Petascale All-Flash Servers

(For Complete System Only)

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



MODEL	SSG-121E-NES24R	ASG-1115S-NE316R	ASG-2115S-NE332R
Processor Support	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors	Single Socket SP5 AMD EPYC™ 9004 Series Processors	Single Socket SP5 AMD 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/LRDIMM	Slot Count: 24 DIMM slots Max Memory (2DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM/LRDIMM	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 4TB 4800MT/s ECC DDR5 RDIMM/LRDIMM Max Memory (2DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM/LRDIMM
Expansion Slots	Default • 2 PCIe 5.0 x16 FHFL slot(s) • 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)	Default • 2 PCIe 5.0 x16 FHFL slot(s) • 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)	Default • 2 PCIe 5.0 x16 FHFL slot(s) • 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)
Onboard Storage Controller	Intel® SATA		
Connectivity	Via AIOM	Via AIOM	Via AIOM
VGA/Audio	1 VGA port	1 VGA port	1 VGA port
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 24 bay(s) 24 front hot-swap E1.5 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 E3.5 1T NVMe drive bay(s) M2: 2 M.2 NVMe slot(s) (M-key 2280/22110)	Default: Total 34 bay(s) 32 front hot-swap E3.5 1T NVMe 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 2000W Redundant Titanium Level power supplies	1x 1600W Redundant Titanium Level power supply	1x 2000W Redundant Titanium Level power supply
Cooling System	8 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

X14 NEW Enterprise Storage



MODEL	SSG-542B-E1CR90	SSG-542B-CE1CR60L
Processor Support	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
Serverboard	SUPERMICRO® X14SBSC	SUPERMICRO® X14SBI-TF
Chipset	System on Chip	System on Chip
System Memory (Max.)	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
Expansion Slots	Default • 1 PCIe 5.0 x8 (in x8) HHHL slot • 3 PCIe 5.0 x16 (in x16) HHHL slots	Default • 3 PCIe 5.0 x16 (in x16) LP slots • 3 PCIe 5.0 x8 (in x8) LP slots
Onboard Storage Controller		
Connectivity	1 RJ45 1 GbE Dedicated BMC LAN port	1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GBASE-T LAN ports
VGA/Audio	1 VGA port	1 VGA port
Management	SuperCloud Composer® Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!	SuperCloud Composer® Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!
Drive Bays	Default: Total 90 bays • 90 top-loading hot-swap 3.5"/2.5" SAS/SATA drive bays Option A: Total 4 bays • 4 rear hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays Option B: Total 2 bays • 2 internal fixed 2.5" PCIe 5.0 x4 NVMe* drive bays (*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)	Default: Total 60 bays • 60 top-loading hot-swap 3.5" SAS/SATA drive bays Option A: Total 4 bays • 4 rear hot-swap 2.5" PCIe 5.0 x8 NVMe* drive bays Option B: Total 4 bays • 4 rear hot-swap 2.5" SATA* drive bays (*NVMe/SATA support may require additional storage controller and/or cables, please see the optional parts list for details)
Peripheral Bays	N/A	N/A
Power Supply	2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies	2x 1600W Redundant Titanium Level (96%) Hot-plug power supplies
Cooling System	Up to 1 Counter Rotating 6cm Fan(s) Up to 6 Heavy Duty 8cm Fan(s)	Up to 5 Heavy Duty 8cm Fan(s)
Form Factor	4U Rackmount	4U Rackmount



Intel® Xeon® 6
Processors
Supported



X14 Gold Series



MODEL	SSG-542B-E1CR60	SSG-542B-DE1CR90
Processor Support	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
Serverboard	SUPER [®] X14SBSC	SUPER [®] X14SBSC
Chipset	System on Chip	System on Chip
System Memory (Max.)	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 2TB 5200MT/s ECC DDR5 RDIMM
Expansion Slots	Default • 1 PCIe 5.0 x8 (in x8) HHHL slot • 3 PCIe 5.0 x16 (in x16) HHHL slots	Default • 1 PCIe 5.0 x8 (in x8) HHHL slot • 3 PCIe 5.0 x16 (in x16) HHHL slots
Onboard Storage Controller		
Connectivity	1 RJ45 1 GbE Dedicated BMC LAN port	1 RJ45 1 GbE Dedicated BMC LAN port
VGA/Audio	1 VGA port	1 VGA port
Management	SuperCloud Composer® Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!	SuperCloud Composer® Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!
Drive Bays	Default: Total 60 bays • 60 top-loading hot-swap 3.5"/2.5" SAS/SATA drive bays Option A: Total 4 bays • 4 rear hot-swap 2.5" PCIe 4.0 x4 NVMe* drive bays Option B: Total 2 bays • 2 internal fixed 2.5" PCIe 5.0 x4 NVMe* drive bays (*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)	Default: Total 90 bays • 90 top-loading hot-swap 3.5"/2.5" SAS/SATA drive bays Option A: Total 2 bays • 2 internal fixed 2.5" PCIe 5.0 x4 NVMe* drive bays (*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)
Peripheral Bays	N/A	N/A
Power Supply	2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies	2x 2600W Redundant (1 + 1) Titanium Level (96%) power supplies
Cooling System	Up to 6 Heavy Duty 8cm Fan(s) Up to 1 Counter Rotating 6cm Fan(s)	Up to 1 Counter Rotating 6cm Fan(s) Up to 6 Heavy Duty 8cm Fan(s)
Form Factor	4U Rackmount	4U Rackmount

X14 Enterprise Optimized Storage



MODEL	SSG-522B-ACR12H SSG-522B-ACR12L	SSG-542B-E1CR36H SSG-542B-E1CR36L
Processor Support	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
Serverboard	SUPER [®] X14SBI-TF	SUPER [®] X14SBI-TF
Chipset	System on Chip	System on Chip
System Memory (Max.)	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 6400MT/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 • 3 PCIe 5.0 x8 (in x8) LP slots • 3 PCIe 5.0 x16 (in x16) LP slots
Onboard Storage Controller	N/A	N/A
Connectivity	2 RJ45 10 GbE LAN ports (Intel® X550) 1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1)	2 RJ45 10 GbE LAN ports (Intel® X550) 1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1)
VGA/Audio	1 VGA port (Rear)	1 VGA port
Management	SuperCloud Composer® Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!	SuperCloud Composer® Supermicro Server Manager (SSM) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) SuperServer Automation Assistant (SAA) New!
Drive Bays	Default: Total 14 bays • 12 front hot-swap 3.5" NVMe*/SAS/SATA drive bays • 2 rear hot-swap 2.5" NVMe*/SAS/SATA drive bays (*NVMe support may require additional storage controller and/or cables)	Default: Total 38 bays • 24 front hot-swap 3.5" SAS/SATA drive bays • 12 rear hot-swap 3.5" SAS/SATA drive bays • 2 rear hot-swap 2.5" SAS/SATA drive bays Option A: Total 10 bays • 8 front hot-swap 3.5" PCIe 5.0 x4 NVMe* drive bays • 2 rear hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays (*NVMe support may require additional storage controller and/or cables, please see the optional parts list for details)
Peripheral Bays	N/A	N/A
Power Supply	2x 1200W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies	2x 1600W Redundant (1 + 1) Titanium Level (96%) power supplies
Cooling System	Up to 3 Heavy Duty PWM 80x80x38mm Fan(s)	7 Heavy Duty PWM 80x80x38mm Fan(s)
Form Factor	2U Rackmount	4U 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	N/A	N/A
Connectivity	2 RJ45 10GbE with Broadcom® BCM57416	2 RJ45 10GbE with Broadcom® BCM57416
VGA/Audio	1 VGA port (Rear)	1 VGA port (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" PCIe 5.0 x4 NVMe* drive bay(s) *Optional M2: 2 M.2 PCIe 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
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) FHHL slot(s) • 2 PCIe 5.0 x8 (in x8) FH/10.5"L slot(s)	Default • 4 PCIe 5.0 x16 (in x16) FHHL slot(s) • 2 PCIe 5.0 x8 (in x8) FH/10.5"L 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
Connectivity	2 RJ45 10GbE with Broadcom® BCM57416	2 RJ45 10GbE with Broadcom® BCM57416
VGA/Audio	1 VGA port (Rear)	1 VGA port (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 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 PCIe 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 PCIe 4.0 x2 NVMe slot(s) (M-key 2280/22110)
Peripheral Bays	1 slim DVD bay(s) (optional)	N/A
Power Supply	2x 1200W Redundant Titanium Level Hot-plug power supplies	2x 1200W Redundant Titanium Level Hot-plug power supplies
Cooling System	5 Heavy Duty 8cm Fan(s)	5 Heavy Duty 8cm Fan(s)
Form Factor	3U Rackmount	4U Rackmount

X13 Enterprise Storage Server

X13/H13 Simply Double

(For Complete System Only)

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



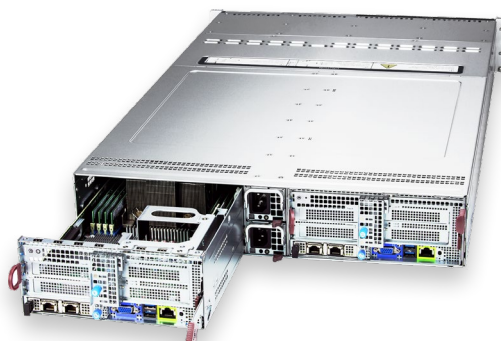
MODEL	SSG-641E-E1CR36H SSG-641E-E1CR36L	SSG-521E-E1CR24H SSG-521E-E1CR24L	ASG-2015S-E1CR24H ASG-2015S-E1CR24L
Processor Support	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors	Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 36C/72T; Up to 180MB Cache	Single Socket SP5 AMD EPYC™ 9004 Series Processors Up to 84C/168T; Up to 384MB Cache
Serverboard	SUPER● X13DEI-T	SUPER● X13SEDW-F	SUPER● H13SSW
Chipset	Intel® C741	Intel® C741	System on Chip
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 (2DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM	Slot Count: 12 DIMM slots Max Memory (2DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM/LRDIMM
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 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 AIOM slot(s) (OCP 3.0 compatible)	Default • 5 PCIe 5.0 x16 FHHL slot(s) • 1 PCIe 5.0 x8 FHHL slot(s) • 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible) Option A • 3 PCIe 5.0 x16 FHHL slot(s) • 1 PCIe 5.0 x8 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	-H: Intel® SATABroadcom® AOC-S3908L-H8IR -L: Intel® SATABroadcom® AOC-S3808L-L8IT	N/A	-H: Broadcom® AOC-S3908L-H8IR-32DD-P -L: Broadcom® AOC-S3808L-L8IT-P
Connectivity	2 RJ45 10GbE with Broadcom® BCM57416	Via AIOM	Via AIOM
VGA/Audio	1 VGA port (Rear)	1 VGA port	1 VGA port
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!)		
Drive Bays	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)	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) Option A: 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) Option B: Total 30 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" NVMe drive bay(s) • 2 rear hot-swap 2.5" SATA drive bay(s) • M2: 2 M.2 NVMe/SATA 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) Option A: Total 28 bay(s) • 12 front hot-swap 3.5" SAS/SATA drive bay(s) • 12 top-loading fixed 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) Option B: Total 30 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" NVMe 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	7 Heavy Duty 8cm Fan(s)	4 Heavy Duty 8cm Fan(s)	4 Heavy Duty 8cm Fan(s)
Form Factor	4U 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	SUPERMICRO® X13DET-B	SUPERMICRO® 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 PCIe 5.0 x16 LP slot • 2 PCIe x8 LP slots	• 2 M.2 (22x110mm) slots for boot drive or caching • 1 PCIe 5.0 x16 LP slot • 2 PCIe x8 LP slots
Onboard Storage Controller	Intel® SATA	Broadcom® 3808
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	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 PCIe 5.0 x16 LP slot • 2 PCIe x8 LP slots	• 2 M.2 (22x110mm) slots for boot drive or caching • 1 PCIe 5.0 x16 LP slot • 2 PCIe 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



2U 4-Node Front 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 PCIe 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®

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



4U8N



4U4N



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	SUPERMICR X13SEFR-A	SUPERMICR 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 AIOM	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")

X13 High Availability Dual-Port Storage Server

Gen 4 JBOF

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



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	N/A	N/A
Connectivity	Via AIOM	2 RJ45 1GbE with Realtek
VGA/Audio	1 VGA port	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 bays 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 bays 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

JBOD Storage

4U Top Loading Storage
60x Hot-Swap 2.5"/3.5" bays



4U Top Loading Storage
90x Hot-Swap 2.5"/3.5" bays



MODEL	CSE-947SE1C-R1K63JBOD CSE-947SE2C-R2K63JBOD	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-SAS3-9500-8I8E, 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

JBOD Storage

4U Top Loading 45x 3.5" drives



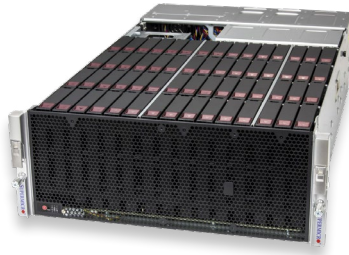
4U Top Loading 60x 3.5" drives



MODEL	CSE-946LE1C-R1K66JBOD	CSE-946SE2C-R1K66JBOD
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 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 - 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/Dual-path 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 - 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
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
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
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)
Power Supply	1600W (1+1) Redundant Power Supplies Platinum Certified	1600W (1+1) Redundant Power Supplies Platinum Certified
Cooling System	5x 80x38mm rear hot-swap fans	5x 80x38mm rear hot-swap fans
Form Factor	4U rack size, 26" or 32.5" depth	4U rack size, 30.2" or 35.2" depth

JBOD Storage

4U Top Loading 45x 3.5" drives



4U Front & Rear Access



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



MODEL	CSE-946SE1C-R1K63JBOD	CSE-847E1C-R1K23JBOD CSE-847E2C-R1K23JBOD
Key Applications	Large File Systems, Object Storage, Archives, Backup Images, and Multimedia Repositories	Unstructured data and Growing File Systems
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 3.0) compliant - Slide Rails and Cable Management Arm included - Support NTP for time synchronization & RTC battery backup - Tool-less drive tray with drive LED indicator - Qualified with 2-port HBA and RAID Controller	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
Onboard Storage Controller	Single or Dual 30-port Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput	SAS3 (12Gbps) backplane with dual expanders supports SAS3 drives for load balancing and redundancy
Connectivity	4 or 8x Mini-SAS HD ports for Internal / External Cascading Expander Combination for high performance, high availability or high redundancy requirements	4 or 8x 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
Drive Bays	60 x 3.5" hot-swap drive bays (2.5" drive carriers supported)	44 (24 front + 20 rear) hot-swap drive bays (2.5" drive carriers supported)
Power Supply	1600W (1+1) Redundant Power Supplies Platinum/Titanium Certified	1200W (1+1) Redundant Power Supplies Titanium Certified
Cooling System	5x 80x38mm rear hot-swap fans	7x 80mm rear hot-swap fans
Form Factor	4U rack size, 30.2" or 35.2" depth	4U rack size, 27.5" depth

JBOD Storage

3U Storage Expansion

4U Storage Expansion



MODEL	CSE-826SE1C-R1K02JBOD2	CSE-836BE1C-R1K03JBOD CSE-836BE2C-R1K03JBOD	CSE-846BE1C-R1K03JBOD CSE-846BE2C-R1K03JBOD
Key Applications	Simply Double High Density JBOD Storage Enclosure	Database and Collaboration Stores	Unstructured data and Growing File Systems
Outstanding Features	- Extreme High Density Storage Chassis support 24x (12 front + 12 middle) 3.5" SAS/ SATA 12Gb/s Hot-Swap Bays - Single Expander Backplane Boards support SAS/SATA HDDs with 12Gb/s throughput 4x Mini-SAS HD ports for Internal/External Cascading 1000W (1+1) Redundant High-efficiency Titanium Level power supplies with PMBus - Optimize cooling with 4x 8cm Hot-Swap fans - JBOD Power Control Board with IPMI for remote monitor and power on-off; Internal Connection Cables Included - Qualified SAS HBA / 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	Single Expander Backplane Board supports SAS3 HDDs with 12Gb/s throughput	Single or Dual Expander Backplane Boards support SAS3 HDDs with 12Gb/s throughput	Single or Dual Expander Backplane Board supports SAS3 HDDs with 12Gb/s throughput
Connectivity	4 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	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
Drive Bays	24x 3.5" hot-swap SAS3/SATA3 drive bay for JBOD solution	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	800/1000W redundant CRPS Power Supply	1000W (1+1) Redundant Power Supplies Titanium certified	1000W (1+1) Redundant Power Supplies Titanium certified
Cooling System	4x 8cm hot-swap redundant PWM cooling fan(s)	5 hot-swap fans (3 cooling fans, 2 exhaust fans)	5 hot-swap fans (3 cooling fans, 2 exhaust fans)
Form Factor	2U	3U rack size, 25.5" depth	4U rack size, 26" depth

JBOD Storage

2U Storage Expansion



2U Storage Expansion



MODEL	CSE-216BE1C-R609JBOD CSE-216BE2C-R609JBOD	CSE-826BE1C-R802JBOD CSE-826BE2C-R802JBOD
Key Applications	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
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
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
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
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)
Power Supply	600W (1+1) Redundant Power Supplies Platinum certified	600W (1+1) Redundant Power Supplies Titanium certified
Cooling System	3 hot-swap fans	3 hot-swap fans
Form Factor	2U rack size, 24.8" depth	2U rack size, 25.5" depth

Better

Better Performance
Per Watt and Per Dollar



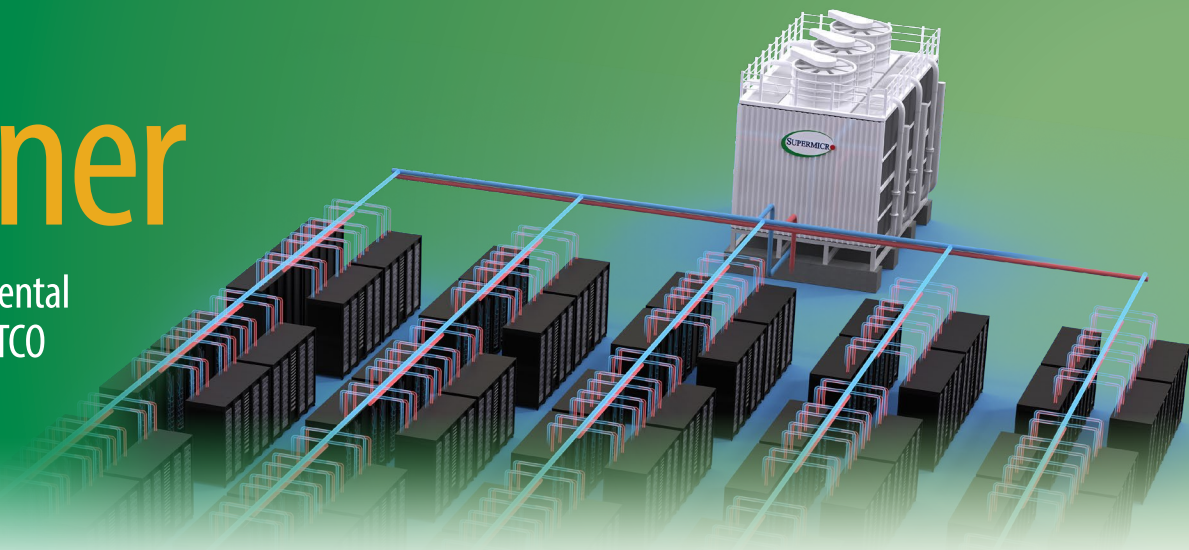
Faster

First-to-Market Innovation with the
Highest Performance Server Designs



Greener

Reduced Environmental
Impact and Lower TCO



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