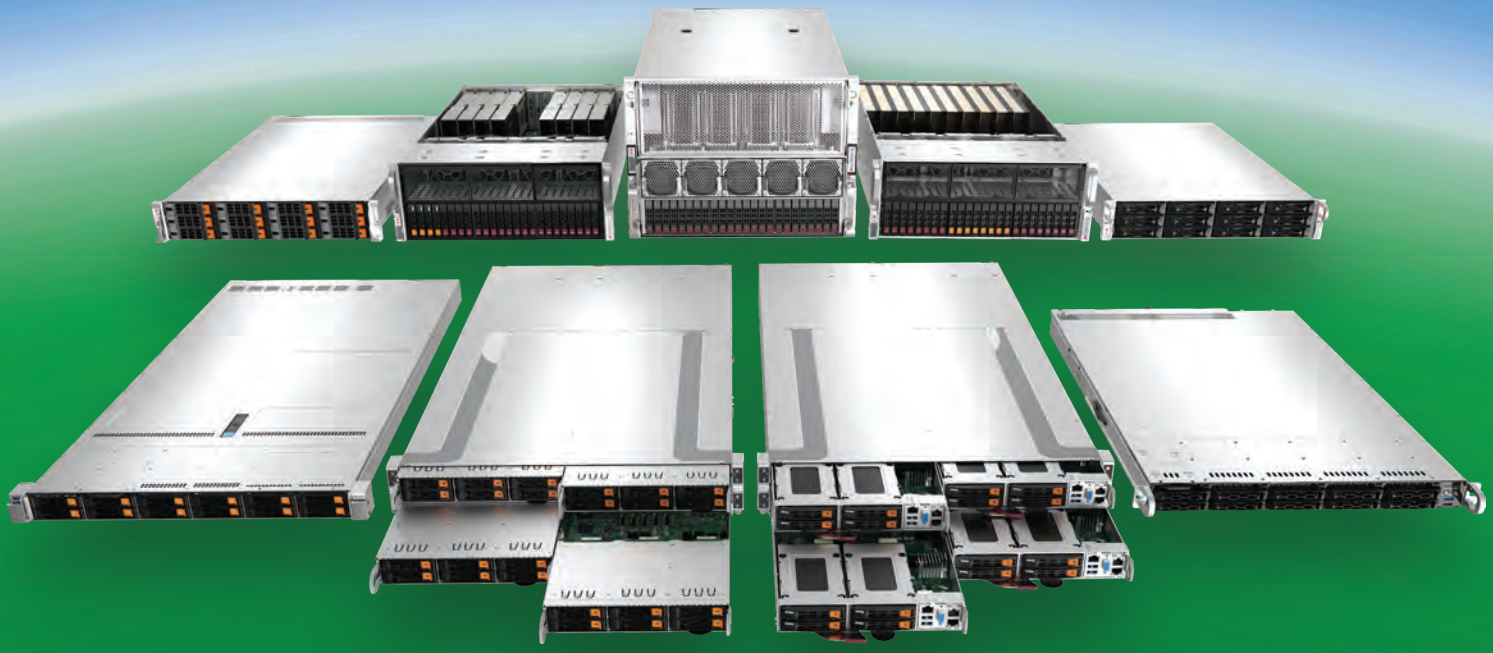
A+ Server Solutions

World's Most Versatile Portfolio of AMD Processor-Based Systems Supporting AMD EPYC™ 9004 Series Processors



SUPERMICRO® H13 AND H12 GENERATION A+ SERVERS

The Most Comprehensive Portfolio of AMD Processor-Based Systems, now with AMD EPYC™ 9004 Series Processors, Including Servers, Storage, GPU-Optimized, Blade, and Multi-Node Solutions to Exactly Match System Requirements to Your Workload

AMD

November 2022

Introducing H13 Generation A+ Servers

AMD EPYC™ 9004 Series Processors

- Up to 96 "Zen 4" Cores
- 12-channel DDR5 with ECC up to 4800MHz with Advanced Memory Device Correction (AMDC) and 1 DIMM per channel support
- 6TB maximum memory supported (based on 2 socket systems and 256GB 3DS RDIMMs with 1 DIMM per channel support)
- PCIe 5.0 up to 160 lanes (4U GPU system)
- Next Generation Reliability, Availability, and Serviceability (RAS)

Workload Optimized Systems with Open Architectures

- Vast I/O, storage, networking and expansion slot options for maximum versatility
- Flexibile networking options with Advanced I/O Modules (AIOMs), up to 400Gbps throughput per card and OCP 3.0 support
- Market-leading GPU optimized servers for large scale AI/ML and HPC workloads
- Compute Express Link (CXL) 1.1 peripheral support including memory expansion through PCIe 5.0 lanes

Increased Operational Efficiency

- Tool-less chassis design
- Rear and Front I/O options
- Hot-swappable nodes with shared power for multi-node system
- Titanium level redundant power supplies
- Efficient resource-saving multi-node designs with shared power and cooling.

H13 GPU Optimized System

Maximum Acceleration for AI/ Deep Learning and HPC

H13 GrandTwin™ System

Leading Multi-Node Architecture with Front or Rear I/O

H13 Hyper System

Industry Leading IOPS Server with Energy Efficiency and Flexibility

H13 CloudDC System

All-in-One Servers with Flexible I/O Options for Cloud Scale Data Centers

H13 GPU-Optimized Systems

Maximum Acceleration for AI/Deep Learning and HPC

High performance AI/Deep Learning and HPC-optimized systems

Dual socket AMD EPYC™ 9004 Series Processors

Double the CPU to GPU throughput with PCIe 5.0

Supports up to 10 FHFL double-width GPU units including AMD Instinct™ MI200 series and NVIDIA H100 GPUs

AS -4125GS-TNRT1

AS -4125GS-TNRT

4U dual processor, direct attached GPU system, supporting 8 PCIe 5.0 GPUs, AMD Instinct, NVIDIA Enterprise level GPUs

AS -4125GS-TNRT1

Coming Soon!

4U dual processor, single-root GPU system with PLX, supporting 10 PCIe 5.0 GPUs, AMD Instinct, NVIDIA Enterprise level GPUs

AS -4125GS-TNRT2

Coming Soon!

4U dual processor, dual-root GPU system with PLX, supporting 10 PCIe 5.0 GPUs, AMD Instinct, NVIDIA Enterprise level GPUs

AS -8125GS-TNHR

(8U Universal GPU)

8U dual processor system with NVIDIA HGX H100 8-GPU, supports PCIe 5.0 with 1: 1 networking at 400G to the 8 GPUs and up to 16 NVMe and 2 SATA SSD drives

MAXIMUM ACCELERATION A+ GPU SYSTEM

Optimized for AI, Deep Learning, HPC, providing maximum acceleration, flexibility, high-performance and balanced solutions. Supermicro GPU-optimized systems support PCIe 5.0 and HGX accelerators and deliver a multitude of performance gains compared to previous generations.

The H13 GPU-optimized servers deliver unprecedented acceleration at every scale to power the worlds highest performing data centers for AI, data analytics, and HPC applications.

Key Applications

- AI/ML
- Deep Learning
- High Performance Computing (HPC)
- Research Laboratory/National Laboratory
- Molecular Dynamics Simulation
- Astrophysics Simulation
- Chemistry Simulation

H13 GrandTwin™ Systems

Leading Multi-node Architecture with Front or Rear I/O

2U 4-node system optimized for single processor per node performance

Configurable up to six 2.5" drive bays supporting NVMe or SATA per node

Field serviceable from front/cold aisle to reduce downtime for higher availability

Flexible networking options with AIOM / OCP 3.0 support

AS -2115GT-HNTF

2U 4-Node Rear I/O GrandTwin

AS -2115GT-HNTR

2U system with up to 6 U.2 NVMe/ SATA drives per node

2U 4-Node Front I/O GrandTwin

AS -2115GT-HNTF

2U system with up to 4 U.2 NVMe/ SATA drives per node

Highly Configurable Single Processor System with Front or Rear I/O

GrandTwin™ is an all-new multi-node architecture purpose-build for single-processor performance. The design maximizes compute, memory and efficiency to deliver maximum density. Powered by 4th Generation AMD EPYC™ Processors, GrandTwin's flexible modular design can be easily adapted for a wide range of applications, with the ability to add or remove components as required, reducing cost.

For front configurations, all I/O and node trays are fully accessible from the cold aisle, simplifying installation and servicing in space-contrained environments. Flexible storage and networking options are available via front AIOM modules, allowing countless custom configurations.

Key Applications

- HCI
- HPC
- CDN
- Technical Computing (EDA, CFD, FEA)
- Cloud Computing
- Big Data Analytics
- Scale-Out Storage

H13 Hyper Systems

Industry Leading IOPS Rackmount Server with Energy Efficiency and Flexibility

Dual AMD EPYC™ 9004 Series Processors

3 PCIe 5.0 x16 slots (1U), or up to 4 PCIe 5.0 x16 slots/ 8 PCIe 5.0 x8 slots (2U) and CXL 1.1+ support

Up to 2 AIOM networking slots with OCP 3.0 support

Flexible NVMe and SATA hot-swap drive options

Tool-less design for easy deployment and maintenance

AS -1125HS-TNR

1U Hyper

AS -1125HS-TNR

1U dual processor server with 24 DIMMs and up to 12x hot-swap 2.5" NVMe/ SATA drives

2U Hyper

AS -2025HS-TNR

2U dual processor server with 24 DIMMs and 12x hot-swap 3.5" NVMe/SATA drives

2U Hyper

AS -2125HS-TNR

2U dual processor server with 24 DIMMs and 24x hot-swap 2.5" NVMe/SATA drives

Highest Performance A+ Hyper Servers

The new H13 Hyper series brings next-generation versatility and performance to Supermicro's range of rackmount servers, built to take on the most demanding workloads along with the storage & I/O flexibility that provide customer fit for a wide range of application needs.

- Uncompromised performance design with 2 CPU sockets and 24 DIMMs optimized for supporting the highest processor TDP
- Best-in-class server features including all NVMe, hybrid storage and low latency optimizations
- Fast PCIe 5.0 expansion slots for accelerators, AIOM/OCP 3.0 networking, and CXL 1.1+ peripheral support including memory expansion.

Key Applications

- Enterprise Server
- Hyperconverged Storage
- Virtualization
- AI Training/Inferencing
- Big Data Analytics
- Cloud Computing
- CDN
- In-Memory Database

H13 CloudDC Systems

All-in-One Servers with Flexible I/O Options for Cloud-Scale Data Centers

Single AMD EPYC™ 9004 Series Processor

Up to 10 2.5" hot-swap NVMe/SATA drives

Up to 4 PCIe 5.0 x16 & 2 AIOM NIC slots

Best-in-class serviceability features with tool-less chassis design

AS -1115CS-TNR

CloudDC - 1U

AS -1015CS-TNR
1U single processor server with 12 DIMMs, supports dual AIOM and 4x hot-swap 3.5" NVMe/SATA drives

CloudDC - 1U

AS -1115CS-TNR
1U single processor server with 12 DIMMs, supports dual AIOM and 10x hot-swap 2.5" NVMe/SATA drives

CloudDC - 2U

AS -2015CS-TNR
2U single processor server with 12 DIMMs, supports 2 double-width PCIe GPUs, dual AIOM and 12x hot-swap 3.5" NVMe/SATA drives

Cost Optimized Versatile Solutions for Rapid Cloud Deployment and Easy Maintenance

Ultimate flexibility on I/O and storage with 2 to 4 PCIe 5.0 slots and dual AIOM slots (PCIe 5.0; OCP 3.0 compliant) for maximum data throughput. Supermicro H13 CloudDC systems offer convenient serviceability with tool-less brackets, hot-swap drive trays and redundant power supplies that ensure a rapid deployment and more efficient maintenance in data centers.

The H13 CloudDC servers are designed for cost-effective service delivery in cloud computing environments, including Internet infrastructure such as web hosting, email services, public and private cloud computing, and content-delivery networks (CDNs).

Key Applications

- Cloud Computing
- Web Server
- Hyper-converged Storage
- Virtualization, File Servers
- Head-node Computing
- Telcom Security Server
- CDN

H12 UNIVERSAL GPU SYSTEM

Modular Platform for HPC Applications and Advanced Data Center AI Infrastructure

Dual AMD EPYC 7003 series processors

Supports the new AMD Instinct MI250 OAM Accelerator

32 DIMM slots per node supporting DDR4-3200MHz

Flexible Storage configuration with 10 hot-swap 2.5" U.2 NVMe drives

4U with optional 1U extension for a 5U system providing PCIe slots expansion with Supermicro AIOM support.

Supports next-generation GPUs in a variety of form factors

Universal GPU server OCP standards-based design

Modular design for flexibility/future-proofing

Optimized thermal capability for 500W/700W GPUs

4U 4-GPU

5U 4-GPU

AS -4124GQ-TNMI

OPEN, MODULAR, STANDARDS BASED UNIVERSAL GPU SYSTEM

Supermicro A+ Universal GPU systems are open, modular, standards-based servers which provide superior performance and serviceability with dual AMD EPYC™ 7003 series processors, supporting AMD Instinct™ MI250 OAM Accelerator and various GPU and accelerator form factors, and featuring a hot-swappable, tool-less design. The system's "future proofed" design allows to standardize on one GPU platforms with multiple configurations for all data center needs with optimized thermal management.

Key Applications

- AI/ML
- HPC
- Vertical Markets (thermal modeling and other parallel-processing intensive tasks)
- Big Data Analytics

H12 TWIN SYSTEMS
Leading Multi-node Architectures

Highly configurable 2U 4-node systems

2-socket with 16 DIMMs or
1-socket with 8 DIMMs per node

Flexible storage and I/O options including NVMe/SATA3 and SIOM networking

A+ BigTwin® (2U4N)

BigTwin® - 2U 4 DP Nodes

AS -2124BT-HNTR
2U System with 4 hot-pluggable Dual-Processor Server Nodes with U.2 NVMe

BigTwin® - 2U 4 DP Nodes

AS -2124BT-HTR
2U System with 4 hot-pluggable Dual-Processor Server Nodes with SATA

TwinPro® - 2U 4 UP Nodes

AS -2014TP-HTR
2U System with 4 hot-pluggable Single-Processor Server Nodes

NO-COMPROMISE 2U 4-NODE ARCHITECTURE

BigTwin is the 5th generation in the Supermicro® Twin Family with a multitude of innovations and engineering breakthroughs.

TwinPro systems are designed for simplified deployment and maintenance, and assembled with the highest quality to ensure continuous operation even at maximum capacity.

With AMD EPYC™ 7003 Series Processors with AMD 3D V-Cache™ Technology, customers in high-end enterprise, data center, HPC and Cloud Computing environments receive the greatest competitive advantage from data center resources with the Supermicro® TwinPro.

Key Applications

- HCI
- HPC
- CDN
- 5G UPF
- Technical Computing (EDA, CFD, FEA)
- Cloud Computing
- Big Data Analytics
- Back-up and Recovery
- Scale-Out Storage

H12 Ultra Systems

Industry Leading IOPS, Energy Efficiency, and Flexibility

Optimized for highest processor TDPs

Up to 24x Hybrid NVMe/SAS/SATA drive bays

Up to 3 double width GPUs

AS -2124US-TNRP

1U Ultra, 12 NVMe

AS -1124US-TNRP

1U Dual-Processor Server with 32 DIMMs and 12x hot-swap 2.5" U.2 NVMe drives

1U Ultra, 8TB DDR4

AS -1024US-TRT

1U Dual-Processor Server with 32 DIMMs and 4x hot-swap 3.5" SATA/NVMe drives

2U Ultra, 8TB DDR4

AS -2124US-TNRP

2U Dual-Processor Server with 32 DIMMs and 24x hot-swap 2.5" U.2 NVMe drives

2U Ultra, 8TB DDR4

AS -2024US-TRT

2U Dual-Processor Server with 32 DIMMs and 12x hot-swap 3.5" SATA/NVMe drives

HIGHEST PERFORMANCE A+ ULTRA SERVERS

Supermicro® A+ Ultra system are designed to deliver the highest performance, flexibility, scalability and serviceability to demanding IT environments, and to power mission-critical Enterprise workloads, including support for dual AMD EPYC 7003 or 7002 Series Processors* and 32 DIMMs of DDR4-3200MHz memory for up to 8TB of capacity.

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

Key Applications

- Enterprise Server
- Hyperconverged Storage
- Virtualization
- AI Training/Inferencing
- Big Data Analytics
- Cloud Computing
- CDN
- In-Memory Database

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

H12 FatTwin®

Advanced 4U Twin Architecture with 8 and 4 Nodes

Highly modular multi-node (4U 8-Node or 4U 4-Node) systems with tool-less design and independent backplanes built-in per node to eliminate a single point of failure

Front or Rear I/O accessible service design depending on data center environments

All-hybrid drive bays
- NVMe, SAS, or SATA

AS -F1114S-FT

FatTwin® - Front I/O 8 UP Nodes

AS -F1114S-FT

4U Front I/O System with 8 Hot-pluggable Single-Processor Server Nodes with 2-4x 2.5" SATA3/NVMe drives per node

FatTwin® - Rear I/O 4 UP Nodes

AS -F2014S-RNTR

4U Rear I/O System with 4 Hot-pluggable Single-Processor Server Nodes with 8x 3.5" drives and 4x M.2 per node

FatTwin® - Rear I/O 8 UP Nodes

AS -F1114S-RNTR

4U Rear I/O System with 8 Hot-pluggable Single-Processor Server Nodes with 6x 2.5" drives and 4x M.2 per node

FRONT OR REAR I/O TWIN ARCHITECTURE TO MAXIMIZE SERVICEABILITY AND RELIABILITY

The innovative FatTwin architecture provides flexibility and system accessibility for unique datacenter requirements with front or rear I/O, as well as electrically isolated, modularized left/right nodes with redundant power supplies for maximum reliability.

- Single AMD EPYC 7003 or 7002 Series Processor* (TDP up to 280W) per node
- Flexible AIOM networking
- Electrically isolated Redundant Titanium Level power supplies per side (2 left, 2 right)

Key Applications

- Hyperscale / Hyperconverged
- HPC and Big Data
- Data Center Enterprise Applications
- Scale Out Storage
- Telco Data Center & Virtualization Server

H12 SUPERBLADE®

Performance and Density Optimized Resource Saving Architecture

Up to 20 hot-pluggable nodes in 8U

Highest density GPU platform for AI and Deep Learning

Integrated HPC network fabrics for up to 200G HDR InfiniBand with 100% non-blocking switch

SBE-820C/H/L/J *(Front View)*

Up to 20 Single Processor Nodes in 8U with 8 DIMMs and mezzanine card for advanced networking

SBA-4114S-T2N
SATA/NVMe Model (AIOM module)

SBA-4114S-C2N
SAS/SATA/NVMe Model (AIOM module)

SBA-4119SG
GPU Model with 2 GPUs, M.2 NVMe

RESOURCE SAVING ARCHITECTURE

SuperBlade with AMD EPYC 7003 Series Processors with AMD 3D V-Cache is an ideal choice for modern technical computing workloads including EDA.

The system can contain up to 20 CPUs in an 8U chassis, including a network switch built into the chassis. A shared cooling, power and networking infrastructure is key to the high density and server efficiency offered by blade solutions. Supermicro's high performance, density optimized, and energy-efficient SuperBlade® can significantly reduce initial capital and operational expenses for many organizations.

In particular, Supermicro's new generation blade product portfolio has been designed to optimize the TCO of key components for today's datacenters, such as free-air cooling, power efficiency, node density and networking management.

Key Applications

- EDA
- HPC
- AI/ML/DL
- Hybrid Cloud
- Virtualization
- Health
- Financial Services

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

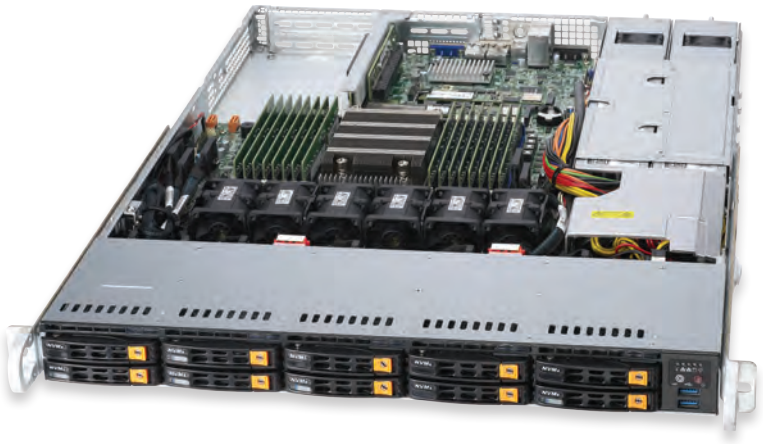
H12 WIO SERVERS

Industry's Widest Variety of I/O Optimized Servers

Cost saving single-socket I/O configurability with up to 64 cores, 8 or 16 DIMMs

Up to 10x (1U) or 24x (2U) U.2 NVMe and dual onboard 10G

Redundant high-efficiency 750W Platinum Level or 1200W Titanium power supplies



AS -1114S-WN10RT

1U WIO

AS -1014S-WTRT

1U Single-Processor Server with 8 DIMMs, 4x 3.5" SATA drives, 2x M.2, optional 4x U.2 NVMe and 2x NVIDIA T4 GPUs

1U WIO

AS -1114S-WTRT

1U Single-Processor Server with 8 DIMMs, 10x 2.5" SATA, 2x M.2, optional 2x U.2 NVMe drives and 2 NVIDIA T4 GPUs

1U WIO

AS -1114S-WN10RT

1U Single-Processor Server with 16 DIMMs and 10x 2.5" U.2 NVMe drives

2U WIO

AS -2114S-WN24RT

2U Single-Processor Server with 16 DIMMs and 24x U.2 NVMe drives

COST AND ENERGY EFFICIENCY FOR DATA CENTER ENVIRONMENTS

Supermicro® A+ WIO systems offer a wide range of I/O options to deliver truly optimized systems for specific requirements. Users can optimize the storage and networking alternatives to accelerate performance, increase efficiency and find the perfect fit for their applications.

In addition to enabling customizable configurations and optimization for multiple application requirements, A+ WIO servers also provide attractive cost advantages and investment protection.

Key Applications

- Enterprise Mission-critical Applications
- Data Center Cloud Computing
- Virtualization
- Big Data
- Financial Analysis

H12 MAINSTREAM

Versatile Entry Level and Volume Servers for Enterprise Server Applications

Highly versatile servers to enable a wide variety of enterprise server applications

Choices of multiple form factors including rackmount, short-depth rackmount and tower

A rich selection of storage options, AOCs, CPU TDP and memory speed support

SuperWorkstation
5U Rackmountable/Tower
AS -5014A-TT

AS -2014S-TR
2U Single-Processor Server with 8 DIMMs

AS -2024S-TR
2U Dual-Processor with 16 DIMMs

AS -3014TS-i
Mid-Tower Single-Processor Server with 16 DIMMs, up to 3 GPUs

SuperWorkstation

AS -5014A-TT
AMD Ryzen™ Threadripper™ PRO 3000WX Series Processor with 8 DIMMs, 6 PCIe x16 and dual 10GbE

MAINSTREAM APPLICATION OPTIMIZED

The A+ H12 Mainstream Application Optimized product family from Supermicro® is a series of servers designed for entry level or volume selections. Enterprise IT managers can choose the exact model for their applications, with a precise set of integrated features needed for their applications.

These powerful yet cost-effective systems provide excellent flexibility and value at entry-level price points.

Key Applications

- SMB
- Virtualization
- Web Server
- AI – Inferencing
- Cloud Computing
- Head-node Computing

H13 GPU-OPTIMIZED

(For Complete System Only)

4U 8-GPU with PCIe

4U 10-GPU with PCIe
Coming Soon!

4U 10-GPU with PCIe
Coming Soon!

8U Universal GPU

MODEL	AS -4125GS-TNRT	AS -4125GS-TNRT1	AS -4125GS-TNRT2	AS -8125GS-TNHR
Processor Support	AMD EPYC™ 9004 Series Processors Dual Socket (Socket SP*) supported TDP up to 400W*	AMD EPYC™ 9004 Series Processors Dual Socket (Socket SP5) supported TDP up to 400W*	AMD EPYC™ 9004 Series Processors Dual Socket (Socket SP5) supported TDP up to 400W*	AMD EPYC™ 9004 Series Processors Dual Socket (Socket SP5) supported TDP up to 400W*
Key Applications	• AI / Deep Learning • High Performance Computing (HPC) • Rendering/VDI • Molecular Dynamics Simulation	• AI / Deep Learning • High Performance Computing (HPC) • Rendering/VDI • Molecular Dynamics Simulation	• AI / Deep Learning • High Performance Computing (HPC) • Rendering/VDI • Molecular Dynamics Simulation	• AI/Deep Learning Training • High Performance Computing
Outstanding Features	• Drive configurations for 2x 2.5" hot-swap SATA and up to 4x 2.5" hot-swap NVMe bays • Up to 10 PCIe 5.0 slots for up to 8 direct-attached double-width, full length, enterprise-level GPUs • Flexible GPU support: active and passive GPUs • Dual onboard 10GbE ports with up to 1 AIOM/OCP 3.0 slot • 1x M.2 slot onboard • 8 hot-swap cooling fans	• Drive configurations for 2x 2.5" hot-swap SATA and up to 8x 2.5" hot-swap NVMe bays • Single root architecture with PCIe switch for up to 10 double width, full length enterprise-level GPUs • Flexible GPU support: active and passive GPUs • Dual onboard 10GbE ports with up to 1 AIOM/OCP 3.0 slot • 1x M.2 slot onboard • 8 hot-swap cooling fans	• Drive configurations for 2x 2.5" hot-swap SATA and up to 8x 2.5" hot-swap NVMe bays • Dual root architecture with PCIe switch for up to 10 double width, full length enterprise-level GPUs • Flexible GPU support: active and passive GPUs • Dual onboard 10GbE ports with up to 1 AIOM/OCP 3.0 slot • 1x M.2 slot onboard • 8 hot-swap cooling fans	• Highest GPU communication using NVIDIA® NVLINK™ + NVIDIA® NVSwitch™ • High density 8U system with NVIDIA® HGX™ H100 8-GPU • 8 NVMe for GPU direct storage • 8 NIC for GPU direct RDMA (1:1 GPU Ratio) • 1 M.2 NVMe for boot drive only
Serverboard	SUPER●® H13DSG-O-CPU	SUPER●® H13DSG-O-CPU	SUPER●® H13DSG-O-CPU	SUPER●® H13DSG-O-CPU
Chipset	System on Chip	System on Chip	System on Chip	System on Chip
System Memory (Max.)	24 DIMM slots UP to 6TB: 24x 256GB DRAM	24 DIMM slots UP to 6TB: 24x 256GB DRAM	24 DIMM slots UP to 6TB: 24x 256GB DRAM	24 DIMM slots UP to 6TB: 24x 256GB DRAM
Expansion Slots	12 PCIe 5.0 X16 Slots	12 PCIe 5.0 X16 Slots	12 PCIe 5.0 X16 Slots	8 PCIe 5.0 x16 LP, 2 FHFL PCIe 5.0 x16 Slots
Onboard Storage Controller	2x2.5" SATA via onboard ASM1061	2x2.5" SATA via onboard ASM1061	2x2.5" SATA via onboard ASM1061	2x2.5" SATA via onboard ASM1061
Connectivity	2x 10GbE RJ45 port(s) with Intel® Ethernet Controller I350	2x 10GbE RJ45 port(s) with Intel® Ethernet Controller I350	2x 10GbE RJ45 port(s) with Intel® Ethernet Controller I350	2x 10GbE RJ45 with Intel® X550-AT2 (optional)
VGA/Audio	1 VGA port	1 VGA port	1 VGA port	1 VGA port
Management	IPMI 2.0; KVM with dedicated LAN; NMI; OOB Management Package (SFT-OOB-LIC); Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMI 2.0; KVM with dedicated LAN; NMI; OOB Management Package (SFT-OOB-LIC); Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMI 2.0; KVM with dedicated LAN; NMI; OOB Management Package (SFT-OOB-LIC); Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMI 2.0; KVM with dedicated LAN; NMI; OOB Management Package (SFT-OOB-LIC); Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	24x 2.5" hot-swap drive bays; 4x 2.5" NVMe dedicated	24x 2.5" hot-swap drive bays; 8x 2.5" NVMe dedicated	24x 2.5" hot-swap drive bays; 8x 2.5" NVMe dedicated	14x 2.5" hot-swap NVMe/SATA drive bays; 6x 2.5" NVMe hybrid; 4x 2.5" NVMe dedicated;
Peripheral Bays	None	None	None	None
Power Supply	Redundant 2000W Titanium level (96%)	Redundant 2000W Titanium level (96%)	Redundant 2000W Titanium level (96%)	Redundant 3000W Titanium level (96%)
Cooling System	8 heavy duty fan(s)	8 heavy duty fan(s)	8 heavy duty fan(s)	10 heavy duty fan(s)
Form Factor	4U Rackmount Enclosure: 437 x 178 x 737mm (17.2" x 7" x 29") Package: (27" x 26.57" x 41")	4U Rackmount Enclosure: 437 x 178 x 737mm (17.2" x 7" x 29") Package: (27" x 26.57" x 41")	4U Rackmount Enclosure: 437 x 178 x 737mm (17.2" x 7" x 29") Package: (27" x 26.57" x 41")	8U Rackmount Enclosure: 437 x 355.6 x 843.28mm (17.2" x 14" x 33.2") Package: 698 x 750 x 1300mm (27.5" x 29.5" x 51.2")

** Certain CPUs with high TDP (320W or higher) air-cooled support is limited to specific conditions. Please contact technical support for additional information about specialized system optimizations.*

H12 GPU

(For Complete System Only)

4U 8-GPU with PCIe

2U 2-Node, 4-GPU with PCIe

4U 8-GPU with HGX

2U 4-GPU with HGX

MODEL	AS -4124GS-TNR**	AS -2114GT-DNR	AS -4124GO-NART	AS -2124GQ-NART
Processor Support	Dual AMD EPYC 7003 or 7002 Series Processors*	Single AMD EPYC 7003 or 7002 Series Processor*	Dual AMD EPYC 7003 or 7002 Series Processors*	Dual AMD EPYC 7003 or 7002 Series Processors*
Key Applications	• HPC • AI/ML • Cloud Gaming • Research & Academia	• Cloud Gaming • Media/Video Streaming Gaming • AI Inference and Machine Learning	• AI Compute / Model Training / Deep Learning • HPC • System for All AI Workload	• AI Compute / Model Training / Deep Learning • HPC
Outstanding Features	• 160 PCIe lanes • 8 direct attached GPUs • PCIe 4.0 • Flexible architecture • AIOM support	• 4 NVMe for GPUDirect Storage • Up to 8 DIMMs per node • M.2 Support • Supports 6 PCIe and 1 Mezzanine card	• Highest 8 GPU communication using NVIDIA NVLink and NVSwitch • Up to 8 NICS for GPUDirect RDMA (1:1 GPU Ratio) • Up to 8 NVMe for GPUDirect Storage with optional backplane	• High-density 2U with 4 GPU peer-to-peer communication • Directly attached GPUs for low latency • 4 NICs for GPUDirect RDMA (1:1 GPU Ratio)
Serverboard	SUPER® H12DSG-O-CPU	SUPER® H12SSG-AN6	SUPER® H12DGO-6	SUPER® H12DSG-Q-CPU6
System Memory (Max.)	Up to 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs	Up to 2TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs	Up to 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs	Up to 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs
Expansion Slots	9 PCIe 4.0 x16 (Option: 10 PCIe 4.0 x16 slots without NVMe devices)	6 PCIe 4.0 x16 (4 Internal and 2 external); 1 AIOM card support; 2 M.2 PCIe 4.0 x4 slots 2280/22110; M-key	8 PCIe 4.0 x16 (LP) slots from PCIe Switch; 1 PCIe 4.0 x16 (LP); 1 PCIe 4.0 x8 slot from CPUs	4 PCIe 4.0 x16 (LP) slots; 1 PCIe 4.0 x8 (LP) slot
Onboard Storage Controller	2x 2.5" SATA in RAID 1 via onboard Marvell 9230	AMD SP3	SATA3, PCIe 4.0 U.2 NVMe and PCIe 4.0 M.2 NVMe	SATA/NVMe Hybrid or SAS with optional HBA
Connectivity	2 GbE LAN ports (rear)	AIOM Network Card For Flexible Networking Options (not included)	OCP 3.0 / AIOM NIC	Dual RJ45 10GbE-aggregate host LAN, RJ45 1GbE IPMI
VGA/Audio	Aspeed AST2500 BMC	Aspeed AST2600 BMC	Aspeed AST2600 BMC	Aspeed AST2600 BMC
Management	IPMI 2.0 with virtual media over LAN and KVM-over-LAN support	IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	IPMI 2.0 with Virtual Media over LAN and KVM-over-LAN support. Dedicated IPMI LAN port	IPMI 2.0 with Virtual Media over LAN and KVM-over-LAN support. Dedicated IPMI LAN port
Drive Bays	Up to 24x 2.5" SAS/SATA drive bays	2 Front Hot-swap U.2 NVMe Gen4 drive bays per node	6x hot-swap 2.5" drive bays (SATA/NVMe Hybrid or SAS with optional HBA) Up to 10x hot-swap 2.5" drive bays with optional backplane, 2 NVMe M.2 (Internal)	4x hot-swap 2.5" drive bays (SATA/NVMe Hybrid or SAS with optional HBA)
Peripheral Bays	N/A	N/A	N/A	N/A
Power Supply	2000W (2+2) Redundant Titanium Level (96%+) power supplies	Redundant 1 + 1 2600W Titanium Level (96%) (Full redundancy based on configuration and application load)	Four 2200W high-efficiency Platinum Level power supplies	Two 2200W high-efficiency Platinum Level power supplies
Cooling System	8x hot-swap 11.5K RPM cooling fans	4x 80mm heavy duty PWM fans	4x hot-swap heavy duty PWM fans	4x hot-swap heavy duty PWM fans
Form Factor	4U Rackmount 178 x 437 x 737mm (7.0" x 17.2" x 29")	2U (2-node) Rackmount 447 x 88 x 760mm (17.6" x 3.47" x 29.9")	4U Rackmount 446 x 174 x 900mm (17.6" x 6.9" x 35.4")	2U Rackmount 437 x 89 x 823mm (17.2" x 3.5" x 32.4")

** AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.*
*** Can be sold as barebone system*

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 Processor Single Socket (Socket SP5) supported TDP up to 400W*	AMD EPYC™ 9004 Series Processor Single Socket (Socket SP5) supported TDP up to 400W*
Key Applications	• HPC • Mission Critical Web Applications • EDA (Electric Design Automation) • Telco Edge Cloud • High-availability Cache Cluster • Multi-Purpose CDN • MEC (Multi-Access Edge Computing) • Cloud Gaming	• HPC • Mission Critical Web Applications • EDA (Electric Design Automation) • Telco Edge Cloud • High-availability Cache Cluster • Multi-Purpose CDN • MEC (Multi-Access Edge Computing) • Cloud Gaming
Outstanding Features	• Up to 6 2.5" hot-swap NVMe/SATA drives per node • 2x AIOM / OCP 3.0 slots per node • 2x M.2 NVMe/SATA slots per node • Front access node trays for easy serviceability and maintenance	• Flexible front slots to configure storage or AIOM/OCP 3.0 cards • up to 4 2.5" hot-swap NVMe/SATA drives per node or • up to 2x AIOM / OCP 3.0 slots per node • 2x M.2 NVMe/SATA slots per node • GrandTwin I/O for flexible networking options • Front access node trays for easy serviceability and maintenance
Serverboard	SUPER® H13SST-G	SUPER® H13SST-G
Chipset	AMD SP5	AMD SP5
System Memory (Max.)	12 DIMM slots UP to 3TB: 12x 256GB DRAM	12 DIMM slots UP to 3TB: 12x 256GB DRAM
Expansion Slots	2 AIOM/OCP 3.0 Slots per node	PCIe 4.0 x16 LP slot(s) optional , internal only
Onboard Storage Controller	AMD SP5	AMD SP5
Connectivity	via AIOM and onboard dedicated BMC port	via AIOM or GrandTwin I/O Module and onboard dedicated BMC port
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
Peripheral Bays	None	None
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")

** Certain CPUs with high TDP (320W or higher) air-cooled support is limited to specific conditions. Please contact technical support for additional information about specialized system optimizations.*

H12 TWIN SYSTEMS

TwinPro® - 2U 4 UP Nodes

BigTwin® - 2U 4 DP Nodes

BigTwin® - 2U 4 DP Nodes

MODEL	AS -2014TP-HTR	AS -2124BT-HNTR**	AS -2124BT-HTR**
Processor Support	Single AMD EPYC 7003 or 7002 Series Processor*	Dual AMD EPYC 7003 or 7002 Series Processors	Dual AMD EPYC 7003 or 7002 Series Processors
Key Applications	• Hyperscale and Hyperconverged Solutions • Compute Intensive Application • Enterprise Server • Data Center • HPC	• Hyperscale and Hyperconverged Solutions • Compute Intensive Application • Enterprise Server • Data Center • HPC	• Hyperscale and Hyperconverged Solutions • Compute Intensive Application • Enterprise Server • Data Center • HPC
Outstanding Features	• Up to 3 3.5" SATA drives per node • Up to 8 DIMMs per node • Flexible SIOM options • M.2 support • 2 PCIe add-on cards per node	• Up to 6 2.5" drives per node (4 NVMe + 2 SATA) or (6 SATA) • Up to 16 DIMMs per node • Flexible SIOM options • M.2 support • 2 PCIe add-on cards per node	• Up to 6 2.5" SATA drives per node • Up to 16 DIMMs per node • Flexible SIOM options • M.2 Support • 2 PCIe add-on cards per node
Serverboard	SUPER® H12SST-PS	SUPER® H12DST-B	SUPER® H12DST-B
System Memory (Max.)	Up to 2TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 8 DIMM slots	Up to 4TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 16 DIMM slots	Up to 4TB ECC 3DS LRDIMM, up to DDR4-3200MHz; 16 DIMM slots
Expansion Slots	2 PCIe 4.0 X16 (LP), 1 SIOM card support, 4 M.2 SATA/PCIe slots, 22110/2280/2260/2242, M-key	2 PCIe 4.0 X16 (LP), 1 SIOM card support , 1 M.2 SATA/PCIe slot 2280/2210, M-key	2 PCIe 4.0 x16 (LP), 1 SIOM card support, 1 M.2 SATA/PCIe slot 2280/2210, M-key
Onboard Storage Controller	SATA3	NVMe and SATA3	SATA3
Connectivity	SIOM Network Card For Flexible Networking Options (not included, must add 1 per node)	SIOM Network Card For Flexible Networking Options (not included, must add 1 per node)	SIOM Network Card For Flexible Networking Options (not included, must add 1 per node)
VGA/Audio	Aspeed AST2500 BMC	Aspeed AST2500 BMC	Aspeed AST2500 BMC
Management	IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog	IPMI2.0; KVM with dedicated LAN; SPM; SSM; SUM; SuperDoctor® 5; Watchdog
Drive Bays	3 Hot-swap 3.5" SATA drive bays per node	6 hot-swap 2.5" drive bays per node (4 NVMe + 2 SATA) or (6 SATA)	6 hot-swap 2.5" SATA drive bays per node
Peripheral Bays	N/A	N/A	N/A
Power Supply	Redundant 2000W Titanium Level (96%) (Full redundancy based on configuration and application load)	Redundant 2200W Titanium Level (96%) (Full redundancy based on configuration and application load)	Redundant 2200W Titanium Level (96%) (Full redundancy based on configuration and application load)
Cooling System	4x 80mm heavy duty PWM fans	4x 80mm heavy-duty PWM fans	4x 80mm heavy-duty PWM fans
Form Factor	2U (4-Node) Rackmount 438 x 88 x 724mm (17.25" x 3.47" x 28.5")	2U (4-Node) Rackmount 447 x 88 x 730mm (17.6" x 3.47" x 28.75")	2U (4-Node) Rackmount 447 x 88 x 730mm (17.6" x 3.47" x 28.75")

** AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.*
*** For complete system only and AMD EPYC 7003 Series Processor with AMD 3D V-Cache Technology requires liquid cooling.*

H12 FatTwin®

(For Complete System Only)

8 Nodes, Front I/O

8 Nodes, Rear IO

4 Nodes, Rear IO

MODEL	AS -F1114S-FT	AS -F1114S-RNTR	AS -F2014S-RNTR
Processor Support	Single AMD EPYC 7003 or 7002 Series Processor*	Single AMD EPYC 7003 or 7002 Series Processor*	Single AMD EPYC 7003 or 7002 Series Processor*
Key Applications	• Hyperscale and Hyperconverged Solutions • Cloud Computing • Cluster Node • Data Center • HPC cluster computer nodes	• Hyperscale / Hyperconverged • HPC and Big Data • Data Center Enterprise Applications • Scale Out Storage • Telco Data Center • Virtualization Server	• Hyperscale / Hyperconverged • HPC and Big Data • Data Center Enterprise Applications • Scale Out Storage • Telco Data Center • Virtualization Server
Outstanding Features	• 8 nodes in a 4U system • 280W CPU support • Supports up to 64 cores • 2x LP PCIe x16 slots; 1x AIOM PCIe x16 slot per node • Supports 2-4x 2.5" SATA drives per node • Quad 2000W Titanium Level high-efficiency power supplies	• Up to 6 hot-swap optional SATA/NVMe drives per node • 4 onboard M.2 SATA/NVMe support per node • Flexible AIOM module per node • 1 PCIe add-on card per node • Up to 8 DIMMs per node	• Can support up to 8 SATA/NVMe drives per node • Can support up to 10 2.5" SATA drives • 4 onboard SATA/NVMe M.2 Support per node • Flexible AIOM module per node • 1 PCIe add-on cards per node • Up to 8 DIMMs per node
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 PCIe 4.0 x16 (AIOM); 2 PCIe 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
Peripheral Bays	N/A	N/A	N/A
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.*

H13 HYPER

(For Complete System Only)

1U Hyper

2U Hyper

2U Hyper

MODEL	AS -1125HS-TNR	AS -2025HS-TNR	AS -2125HS-TNR
Processor Support	AMD EPYC™ 9004 Series Processor Dual Socket (Socket SP5) supported TDP up to 400W	AMD EPYC™ 9004 Series Processor Dual Socket (Socket SP5) supported TDP up to 400W	AMD EPYC™ 9004 Series Processor Dual Socket (Socket SP5) supported TDP up to 400W
Key Applications	• Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning	• Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning	• Software-defined Storage • Virtualization • Enterprise Server • Cloud Computing • AI Inference and Machine Learning
Outstanding Features	• Tool-less system design for easy maintenance	• Tool-less system design for easy maintenance	• Tool-less system design for easy maintenance
Serverboard	SUPER® H13DSH	SUPER® H13DSH	SUPER® H13DSH
Chipset	System On Chip	System On Chip	System On Chip
System Memory (Max.)	Up to 6TB 3DS ECC Registered RDIMM DDR5-4800MHz in 24 DIMMs	Up to 6TB 3DS ECC Registered RDIMM DDR5-4800MHz in 24 DIMMs	Up to 6TB 3DS ECC Registered RDIMM DDR5-4800MHz in 24 DIMMs
Expansion Slots	2 PCIe 5.0 x16 FH, 10.5"L and 1 PCIe 5.0 x16, FH, 6.6"L	Configurable PCIe slot options up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 x16 FH, 10.5"L	Configurable PCIe slot options up to 8 PCIe 5.0 x8 or 4 PCIe 5.0 x16 FH, 10.5"L
Onboard Storage Controller			
Connectivity	AIOM / OCP 3.0	AIOM / OCP 3.0	AIOM / OCP 3.0
VGA/Audio	1 VGA port	1 VGA port	1 VGA port
Management	IPMICFG; IPMIView for Linux/ Windows; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMICFG; IPMIView for Linux/ Windows; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMICFG; IPMIView for Linux/ Windows; IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	8 hot-swap 2.5" NVMe/SAS/SATA drives bays (Option for up to 12 drives); Optional RAID support via RAID Controller AOC	12x 3.5" hot-swap NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC	24x 2.5" hot-swap NVMe/SATA/SAS drive bays; Optional RAID support via RAID Controller AOC
Peripheral Bays	None	None	None
Power Supply	Redundant 1200W Titanium level (96%)	Redundant 1600W Titanium level (96%)	Redundant 1600W Titanium level (96%)
Cooling System	8x 4cm heavy duty fan(s)	4x 8cm heavy duty fan(s)	4x 8cm heavy duty fan(s)
Form Factor	1U Rackmount Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4") Package: 605 x 206 x 1032mm (23.8" x 8.1" x 40.6")	2U Rackmount Enclosure: 437 x 88.9 x 803mm (17.2" x 3.5" x 31.6") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")	2U Rackmount Enclosure: 437 x 88.9 x 760mm (17.2" x 3.5" x 29.9") Package: 605 x 263 x 1107mm (23.8" x 10.4" x 43.6")

H12 ULTRA
(For Complete System Only)

1U Ultra, 8TB DDR4

1U Ultra, 12 NVMe

MODEL	AS -1024US-TRT	AS -1124US-TNRP
Processor Support	Dual AMD EPYC 7003 or 7002 Series Processors*	Dual AMD EPYC 7003 or 7002 Series Processors*
Key Applications	• Virtualization • Cloud Computing • High End Enterprise Server	• Virtualization • Cloud Computing • High End Enterprise Server
Outstanding Features	• Optional 4 NVMe ready • 32 DIMMs • 3+1 PCIe add-on cards • 4x 3.5" SATA/SAS/NVMe drive bays • 280W CPU support • Redundant Titanium Level (96%) power supplies • Maximum IO output in 1U platform	• 32 DIMMs • 3+1 PCIe add-on cards • 12-Port NVMe Gen 4.0/3.0 support • 280W CPU support • Redundant Titanium Level (96%) power supplies • Maximum IO output in 1U platform
Serverboard	SUPER® H12DSU-iN	SUPER® H12DSU-iN
System Memory (Max.)	Up to 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs	Up to 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs
Expansion Slots	2 PCIe x16 (FH /9.5"L) slots; 1 PCIe x16 slot (LP); 1 PCIe x16 slot (internal LP)	2 PCIe x16 (FH /9.5"L) slots; 1 PCIe x16 slot (LP); 1 PCIe x16 slot (internal LP)
Onboard Storage Controller	4 SATA3 (6 Gbps) ports; Optional 4 SAS3 drives support VS additional option parts or Optional 4 NVMe drives support vs addition NVMe trays required.	12 hot-Swappable U.2 drives support; Optional 12 SAS3 /12SATA support with additional SAS/SATA Kit
Connectivity	Dual 10GBase-T RJ45 LAN ports via Intel Carlsville X710-AT2; 3 USB 3.0 ports (2 rear, 1 Type A)	Dual port 10G RJ45 & dual port 10G SFP+, Intel Carlsville X710-TM4; 4 USB 3.0 ports (1 front, 2 rear, 1 Type A)
VGA/Audio	1 VGA; 1 ASPEED AST2500 BMC	1 VGA; 1 ASPEED AST2500 BMC
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
Drive Bays	4x hot-swap 3.5" drive bays support	12x hot-swap 2.5" drives support
Peripheral Bays	N/A	N/A
Power Supply	1000W Redundant Titanium Level (96%+) power supplies (Full redundancy based on configuration and application load)	1200W Redundant Titanium Level (96%) power supplies (Full redundancy based on configuration and application load)
Cooling System	8 heavy-duty fans w/ Optimal Fan Speed Control	8 heavy-duty fans w/ optimal Fan Speed Control
Form Factor	437 x 43 x 754mm (17.2" x 1.7" x 29.7")	1U Rackmount 437 x 43 x 724mm (17.2" x 1.7" x 28.5")

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

H12 ULTRA

(For Complete System Only)

2U Ultra, 8TB DDR4

2U Ultra, 24 NVMe

MODEL	AS -2024US-TRT	AS -2124US-TNRP
Processor Support	Dual AMD EPYC 7003 or 7002 Series Processors*	Dual AMD EPYC 7003 or 7002 Series Processors*
Key Applications	• Virtualization • Cloud Computing • High End Enterprise Server • Hyperconverge Storage	• Virtualization • Cloud Computing • High End Enterprise Server • Hyperconverge Storage
Outstanding Features	• 32 DIMMs • 5+1 PCIe add-on cards • 12x 3.5" SATA/SAS (SAS via AOC)/support up to 4 NVMe • 280W CPU support • 1600W redundant Titanium Level (96%) power supplies • Maximum IO output in 2U platform	• 32 DIMMs • 1 PCIe add-on cards • 24x 2.5" hot-swap NVMe drive bays • 280W CPU support • 1600W redundant Titanium Level (96%) power supplies • Maximum IO output in 2U platform
Serverboard	SUPER® H12DSU-iN	SUPER® H12DSU-iN
System Memory (Max.)	Up to 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs	Up to 8TB Registered ECC DDR4 3200MHz SDRAM in 32 DIMMs
Expansion Slots	2 PCIe 4.0 x16 slots (FH, 10.5" L); 1 PCIe 4.0 x16 slot (FH, 9.5" L); 1 PCIe 4.0 x16 slot (LP); 1 PCIe 4.0 x8 slot (FH, 9.5" L, in x16 slot); 1 PCIe 4.0 x8 slot (internal LP, in x16 slot)	1 PCIe 4.0 x16 slot (FH, 9.5" L)
Onboard Storage Controller	8 SATA3 (6 Gbps) ports + 4 hybrid SATA/NVMe function ready for HDD slots 0~3 with additional NVMe HDD trays for NMVe drives; Optional 12 SAS3 drive support VS SAS card with cables	24x Hot-Swappable U.2 drive bays support with optional up to 24x SAS3 drive bays support VS SAS card and cables
Connectivity	Dual port 10G RJ45, Intel Carlsville X710-AT2; 3 USB 3.0 ports (2 rear + 1 Type A)	Dual 10G RJ45 & Dual 10G SFP+ ports, Intel Carlsville X710-TM4 3 USB 3.0 ports (2 rear, 1 Type A)
VGA/Audio	1 VGA; 1 ASPEED AST2500 BMC	1 VGA; 1 ASPEED AST2500 BMC
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
Drive Bays	12x hot-swap 3.5" drive bays support	24x hot-swap 2.5" drive bays support
Peripheral Bays	2x 2.5" peripheral drive bays with additional rear drive bay kits + cable	N/A
Power Supply	1600W redundant Titanium Level (96%+) power supplies (Full redundancy based on configuration and application load)	1600W redundant Titanium Level (96%) power supplies (Full redundancy based on configuration and application load)
Cooling System	4x heavy-duty fans w/ optimal Fan Speed Control	4x heavy-duty fans w/ optimal Fan Speed Control
Form Factor	437 x 89 x 723mm (17.2" x 3.5" x 28.46")	2U Rackmount 437 x 89 x 723mm (17.2" x 3.5" x 28.46")

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

H13 CloudDC

(For Complete System Only)

1U CloudDC

1U CloudDC

2U CloudDC

MODEL	AS -1015CS-TNR	AS -1115CS-TNR	AS -2015CS-TNR
Processor Support	AMD EPYC™ 9004 Series Processor Single Socket (Socket SP5) supported TDP up to 400W	AMD EPYC™ 9004 Series Processor Single Socket (Socket SP5) supported TDP up to 400W	AMD EPYC™ 9004 Series Processor Single Socket (Socket SP5) supported TDP up to 400W
Key Applications	• CDN, Edge Nodes • DNS & Gateway Servers, Firewall Application • Cloud Computing, Compact Server • Data Center Optimized, Value IaaS • Web Server, Firewall Application	• CDN, Edge Nodes • DNS & Gateway Servers, Firewall Application • Cloud Computing, Compact Server • Data Center Optimized, Value IaaS • Web Server, Firewall Application	• CDN, Edge Nodes • DNS & Gateway Servers, Firewall Application • Cloud Computing, Compact Server • Data Center Optimized, Value IaaS • Web Server, Firewall Application
Outstanding Features	• Up to 4x SATA/SAS/NVMe tool-less drive bays • Dual AIOM slots for flexible networking (OCP3.0) • Compact server with tool-less drive trays • Balanced architecture in compact chassis (25.6") • 2 On-board Gen 3 M.2 NVMe 80mm/110mm (Boot)	• Up to 10x NVMe/SATA/SAS hybrid tool-less drive bays • Dual AIOM slots for flexible networking (OCP3.0) • Compact server with tool-less drive trays • Balanced architecture in compact chassis (23.5") • 2 On-board Gen 3 M.2 NVMe 80mm/110mm (Boot)	• Up to 12x NVMe/SATA/SAS hybrid tool-less drive bays • Optional hot-swappable 2.5" rear drive bays • Flexible expansion with up to 2x PCIe 5.0 x16 and 4x PCIe 5.0 x8 (convertible to 2x PCIe 5.0 x16) slots • Dual AIOM slots for flexible networking (OCP3.0) • Compact server with tool-less drive trays • Balanced architecture in compact chassis (25.6") • 3.5" tool-less drive trays also support 2.5" drives • 2 On-board Gen 3 M.2 NVMe 80mm/110mm (Boot)
Serverboard	SUPER® H13SSW	SUPER® H13SSW	SUPER® H13SSW
Chipset	System On Chip	System On Chip	System On Chip
System Memory (Max.)	Up to 3TB 3DS ECC Registered RDIMM DDR5-4800MHz in 12 DIMMs	Up to 3TB 3DS ECC Registered RDIMM DDR5-4800MHz in 12 DIMMs	Up to 3TB 3DS ECC Registered RDIMM DDR5-4800MHz in 12 DIMMs
Expansion Slots	2 Gen5 x16 FHHL slot(s)	2 Gen5 x16 FHHL slot(s)	2 Gen5 x16 FHHL slot(s) 4 Gen5 x16 FHFL slot(s)
Onboard Storage Controller	AMD SP5	AMD SP5	AMD SP5
Connectivity	Dual AIOM/ OCP3.0, 2 USB 3.0 ports (2 rear)	Dual AIOM/ OCP3.0, 2 USB 3.0 ports (2 rear)	Dual AIOM/ OCP3.0, 2 USB 3.0 ports (2 rear)
VGA/Audio	1 VGA; 1 ASPEED AST2600 BMC	1 VGA; 1 ASPEED AST2600 BMC	1 VGA; 1 ASPEED AST2600 BMC
Management	IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog	IPMI 2.0; KVM with dedicated LAN; NMI; Redfish API; SPM; SSM; SUM; SuperDoctor® 5; Watch Dog
Drive Bays	4x 3.5" hot-swap NVMe/SATA/SAS hybrid drive bays; Optional RAID support via RAID controller AOC	10x 2.5" hot-swap NVMe/SATA/SAS hybrid drive bays; Optional RAID support via RAID controller AOC	12x 3.5" hot-swap NVMe/SATA/SAS hybrid drive bays; Optional RAID support via RAID controller AOC
Peripheral Bays	2x 2.5" (optional)	None	None
Power Supply	Redundant 860W Platinum level (94%)	Redundant 860W Platinum level (94%)	Redundant 1200W Titanium level (96%)
Cooling System	6x 4cm heavy duty fans	6x 4cm heavy duty fans	3x 8cm heavy duty fans
Form Factor	1U Rackmount Enclosure: 437 x 43 x 650mm (17.2" x 1.7" x 25.6") Package: 605 x 197 x 878mm (23.8" x 7.8" x 34.6")	1U Rackmount Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5") Package: 605 x 197 x 822mm (23.8" x 7.8" x 32.4")	2U Rackmount Enclosure: 437 x 89 x 648mm (17.2" x 3.5" x 25.5") Package: 678 x 290 x 876mm (26.7" x 11.4" x 34.5")

H12 CloudDC

(For Complete System Only)

Cost Effective 1U

Cost Effective 2U

MODEL	AS -1114CS-TNR	AS -2014CS-TR
Processor Support	Single AMD EPYC 7003 or 7002 Series Processor*	Single AMD EPYC 7003 or 7002 Series Processor*
Key Applications	• Financial Services • Cloud Computing • Network Appliance • Private Cloud • Content Delivery Network (CDN) • Deep Learning Inferencing	• Financial Services • Cloud Computing • Network Appliance • Private Cloud • Content Delivery Network (CDN) • Deep Learning Inferencing
Outstanding Features	• Dual AIOM slots for flexible networking • 2x PCIe 4.0 x16 FH/HL slots • 860W redundant Platinum Level power supplies • Tool-less drive trays and tool-less brackets • 280W CPU support • 16 DIMMs	• Dual AIOM slots for flexible networking • 4x PCIe 4.0 x16 (2 FH, 10.5"L) or 2x PCIe 4.0 x16 FH/HL + 4x PCIe 4.0 x8 FH/HL slots • 920W redundant Platinum Level high-efficiency power supplies • Tool-less drive trays and tool-less brackets • 280W CPU support • 16 DIMMs
Serverboard	SUPER® H12SSW-AN6	SUPER® H12SSW-AN6
System Memory (Max.)	Up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM, in 16 DIMMs slot	Up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM, in 16 DIMMs slot
Expansion Slots	2 PCIe 4.0 x16 (FH/HL)	4 PCIe 4.0 x16 (2 FH, 10.5"L) or 2 PCIe 4.0 x16 (FH/HL) + 4 PCIe 4.0 x8(2 FH/HL, 2 FH/HL)
Onboard Storage Controller	10x hot-swappable SATA drives bays support; Optional 10x SAS3/ NVMe support with additional SAS/NVMe kit	12x 3.5" SATA /SAS (SAS via AOC)/NVMe drive bays with optional kit + 2x 2.5" (with optional kit)
Connectivity	Dual AIOM slots, 2 USB 3.0 ports (2 rear)	Dual AIOM slots, 2 USB 3.0 ports (2 rear)
VGA/Audio	1 VGA; 1 ASPEED AST2600 BMC	1 VGA; 1 ASPEED AST2600 BMC
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
Drive Bays	10x hot-swap 2.5" drive bays support	12x hot-swap 3.5" drive bays support
Peripheral Bays	N/A	2x 2.5" Peripheral drive bays with additional rear drive bay kits + cable
Power Supply	860W redundant Platinum Level high-efficiency power supplies	920W redundant Platinum Level high-efficiency power supplies
Cooling System	6x 40x40x56mm counter-rotation PWM fans	3x 80x80x38mm middle cooling fans
Form Factor	1U Rackmount 437 x 43 x 597mm (17.2" x 1.7" x 23.5")	2U Rackmount 437 x 89 x 648mm (17.2" x 3.5" x 25.5")

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

H12 SuperBlade®

(For Complete System Only)

MODEL	SBA-4114S-C2N	SBA-4114S-T2N	SBA -4119SG
Processor Support	Single AMD EPYC 7003 or 7002 Series Processor*; TDP up to 280W	Single AMD EPYC 7003 or 7002 Series Processor*; TDP up to 280W	Single AMD EPYC 7003 or 7002 Series Processor*; TDP up to 280W
Key Applications	• Resource saving and high density • Data center • HPC • EDA	• Resource saving and high density • Data center • HPC • EDA	• Resource saving and high density • Data center • HPC • Cloud Gaming, Inference
Outstanding Features	• 2x hot-plug 2.5" NVMe/SAS3/SATA3 drive bays • 2 NVMe/SATA M.2 • 2x 25G on board • Flexible AIOM module per node	• 2x hot-plug 2.5" NVMe/SATA3 drive bays • 2 NVMe/SATA M.2 • 2x 25G on board • Flexible AIOM module per node	• 1 NVMe/SATA M.2 • 2 PCIe 4.0 x16 slots • 2x 25G on board
Serverboard	MBD-BH12SSI-M25	MBD-BH12SSI-M25	MBD-BH12SSI-M25
System Memory (Max.)	Up to 2TB DDR4-3200MHz RDIMM	Up to 2TB DDR4-3200MHz RDIMM	Up to 2TB DDR4-3200MHz RDIMM
Expansion Slots	N/A	N/A	2 PCIe 4.0 x16
Onboard Storage Controller	Broadcom 3108	AMD SP3	AMD SP3
Connectivity	25G Ethernet/100G EDR/200G HDR; Optional AIOM Network Card	25G Ethernet/100G EDR/200G HDR; Optional AIOM Network Card	25G Ethernet/100G EDR/200G HDR
VGA/Audio	N/A	N/A	N/A
Management	IPMI 2.0, KVM over IP, Virtual Media over LAN	IPMI 2.0, KVM over IP, Virtual Media over LAN	IPMI 2.0, KVM over IP, Virtual Media over LAN
Drive Bays	2x hot-plug 2.5" NVMe/SAS3/SATA3 drive bays; 2x M.2 NVMe/SATA3	2x hot-plug 2.5" NVMe/SATA3 drive bays; 2x M.2 NVMe/SATA3	1x M.2 NVMe/SATA3
Peripheral Bays	N/A	N/A	N/A
Power Supply	N/A	N/A	N/A
Cooling System	Passive HS for CPU	Passive HS for CPU	Passive HS for CPU
SuperBlade Enclosures	820C 820H 820J 820L	820C 820H 820J 820L	820C 820H 820J 820L

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

H12 SuperBlade®

(For Complete System Only)

Up to 20 hot-plug server blades

Rear View

Up to 20 hot-plug server blades

Rear View

MODEL	SBE-820C	SBE-820J
Server Blade	Up to 20 hot-plug server blades	Up to 20 hot-plug server blades
Module Support	Supports: • SBA-4114S-C2N • SBA-4114S-T2N • SBA-4119SG	Supports: • SBA-4114S-C2N • SBA-4114S-T2N • SBA-4119SG
LED	• Fault LED • Power LED	• Fault LED • Power LED
InfiniBand Switch	1x 100G EDR IB or OPA switch	N/A
Gigabit Ethernet Switch	Up to 2 hot-plug 25G Ethernet Switches	Up to 4 hot plug 25G Ethernet switch
Management Module	1 hot-plug management module providing remote KVM and IPMI 2.0 functionalities	2 hot-plug management modules providing remote KVM and IPMI 2.0 functionalities
Power Supply	4/6/8 hot-swap 2200W power supplies, up to N+N redundancy, 4 pcs of 1200W BBP, 3 optional cooling fan modules(PWS-DF005-2F)	4/6/8 hot-swap 2200W power supplies, up to N+N redundancy, 4 pcs of 1200W BBP, 3 optional cooling fan modules(PWS-DF005-2F)
Cooling Design	Front to back	Front to back
Dimensions (HxWxD)	356 x 447 x 812.8mm (14" x 17.6" x 32")	356 x 447 x 812.8mm (14" x 17.6" x 32")

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

H12 SuperBlade®

(For Complete System Only)

Up to 20 hot-plug server blades

Rear View

Up to 20 hot-plug server blades

Rear View

MODEL	SBE-820L	SBE-820H
Server Blade	Up to 20 hot-plug server blades	Up to 20 hot-plug server blades
Module Support	Supports: • SBA-4114S-C2N • SBA-4114S-T2N • SBA-4119SG	Supports: • SBA-4114S-C2N • SBA-4114S-T2N • SBA-4119SG
LED	• Fault LED • Power LED	• Fault LED • Power LED
InfiniBand Switch	N/A	1x 200G HDR IB switch
Gigabit Ethernet Switch	Up to 2 hot-plug 10G Ethernet Switches	Up to 2 hot-plug 25G Ethernet Switches
Management Module	1 hot-plug CMM (Central Management Modules) providing remote KVM and IPMI 2.0 functionalities	1 hot-plug management modules providing remote KVM and IPMI 2.0 functionalities
Power Supply	4/6/8pcs hot-swap 2200W power supplies, up to N+N redundancy, 3 optional cooling fan modules (PWS-DF005-2F)	4/6/8 hot-swap 2200W power supplies, up to N+N redundancy, 4 pcs of 1200W BBP, 3 optional cooling fan modules(PWS-DF005-2F)
Cooling Design	Front to back	Front to back
Dimensions (HxWxD)	356 x 447 x 812.8mm (14" x 17.6" x 32")	356 x 447 x 812.8mm (14" x 17.6" x 32")

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

H12 MAINSTREAM

2U UP

2U DP

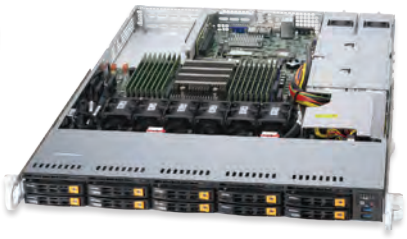
MODEL	AS -2014S-TR	AS -2024S-TR	AS -3014TS-i	AS -5014A-TT
Processor Support	Single AMD EPYC 7002/7003 Series Processor (Up to 280W)	Dual AMD EPYC 7002/7003 Series Processors	Single AMD EPYC 7002/7003 Series Processors*; TDP up to 280W	AMD Ryzen™ Threadripper™ PRO 3000WX Series Processor, up to 64 Cores
Key Applications	• Backup storage • Web or Database Servers • Compact Network Appliance	• Data processing & Storage • Cloud Computing • Hosting & Application delivery • Cloud and Virtualization needs • Content Delivery Network (CDN)	• Entry-Level Worksation • Video and Music Production • Office Applications	• Media and Entertainment Content Creation • Product Design and Engineering Simulation • AI and Deep Learning
Outstanding Features	• 12x 3.5" hot-swap drive bays • 2x 2.5" Hot Swap SATA3 Drive Bays, 2x 2.5" Internal SATA3 Drive Bays (optional) • Up to 2TB DDR4 ECC RDIMM • 2x 1GbE LAN • 2x M.2 Support by default	• 6 PCIe Gen4 expansion slots for next generation AOC • Tool-less Drive Trays and Tool-less Brackets • 920W Redundant Platinum Level High-Efficiency Power Supplies • 12x 3.5/2.5" Hot-swap drive bays with NVMe support	• 4x 3.5" internal SATA HDD Bays • Up to 2TB DDR4 ECC RDIMM • 2x 1GbE LAN • 2x M.2 Support by default	• 5U Rackmountable / Tower • 6 PCIe 4.0 x16 slots • M.2 Support • 10GBase-T LAN port, 1x 1GbE LAN port
Serverboard	SUPER® H12SSL-i	SUPER® H12DSi-N6	SUPER® H12SSL-i	SUPER® M12SWA-TF
Chipset	System on Chip (SoC)	System on Chip (SoC)	System on Chip (SoC)	AMD WRX80
System Memory (Max.)	Up to 2TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM in 8 DIMM slots	Up to 4TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM in 16 DIMM slots	Up to 2TB 3DS ECC DDR4-3200MHz RDIMM/LRDIMM, in 8 DIMM slots	Up to 2TB Registered ECC DDR4 3200-MHz Memory, in 8 DIMM slots
Expansion Slots	5 PCIe 4.0 x16 LP slots, 2 PCIe 4.0 x8 LP slots	3 PCIe 4.0 x16 LP slots, 3 PCIe 4.0 x8 LP slots	5 PCIe 4.0 x16 (FH), 2 PCIe 4.0 x8 (FH)	6 PCIe 4.0 x16 slots M.2 Interface: 4 PCIe 4.0 x4, RAID 0, 1, 5 & 10 M.2 Form Factor: 2280, 22110 M.2 Key: M-Key
Onboard Storage Controller	SP3	SP3	SP3	4 SATA3 (6Gbps) ports; RAID 0, 1, 5, 10
Connectivity	2 GBase-T Ethernet via Broadcom BCM5720 Controller; 5 USB 3.0 ports (4 rear, 2 via header)	2 USB 2.0 and 2 USB 3.0 ports in the rear	2 GBase-T Ethernet via Broadcom BCM5720 Controller; 5 USB 3.0 ports (4 rear, 2 via header)	10GBase-T LAN port, 1x 1GbE LAN port (shared with IPMI)
VGA/Audio	1 VGA 1 Aspeed AST2500 BMC	1 VGA; 1 ASPEED AST2600 BMC	1 VGA; 1 Aspeed AST2500 BMC	1 VGA port (dedicated for IPMI); 7.1 HD Audio
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Intel® Node Manager, IPMI 2.0, SSM, SPM, SUM, SuperDoctor® 5, Watchdog
Drive Bays	12 Hot-Swappable 3.5"/ 2.5" SATA3 drive support; Optional 2x 2.5" SATA3 drive support with optional kits	12x hot-swap 3.5/2.5" drive bays; 4 NVMe and 8 SATA default configuration"	4x internal 3.5" SATA3 drive bays; 4x 2.5" SATA3 drives support	4x internal fixed 3.5"/2.5" SATA3 drive bays; 2x front fixed 2.5" SATA3 drive bays
Power Supply	920W Redundant Power Supplies Platinum Level (94%) (Full redundancy based on configuration and application load)	920W redundant Platinum Level High-Efficiency power supplies	900W redundant Gold Level power supplies	2000W Platinum Level power supply
Cooling System	3 heavy duty fans w/ Optimal Fan Speed Control	3 heavy duty fans w/ Optimal Fan Speed Control	2 system fans w/ optimal Fan Speed control	1x 12cm rear exhaust fan, 3x 12cm front cooling fans (optional), 3x 12cm top cooling fans (optional) ; Optional high-performance closed-loop water cooling for CPU
Form Factor	437 x 89 x 648mm (17.2" x 3.5" x 25.5")	437 x 89 x 648mm (17.2" x 3.5" x 25.5")	Mid-Tower 193 x 424 x 525mm (7.6" x 16.7" x 20.68")	5U Rackmountable / Tower 222 x 535 x 573 mm (21.06" x 8.74" x 22.56")

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

H12WIO

1U UP WIO

1U 10NVMe, UP WIO



1U UP WIO

MODEL	AS -1014S-WTRT	AS -1114S-WN10RT**	AS -1114S-WTRT
Processor Support	Single AMD EPYC 7003 or 7002 Series Processor*; TDP up to 240W	Single AMD EPYC 7003 or 7002 Series Processor*; TDP up to 280W	Single AMD EPYC 7003 or 7002 Series Processor*; TDP up to 240W
Key Applications	• Database Processing & Storage • Data Center • FireWall Applications	• Virtualization • Cloud Computing • All Flash Storage	• Database Processing & Storage • Data Center • FireWall Applications
Outstanding Features	• Support up to 3 PCIe cards • Up to 2TB DDR4 ECC RDIMM • Dual 10GBaseT LAN ports • 2x M.2 support by default • 2 SATA DOMs support with embedded power	• 10-Port NVMe SSD support • Up to 4TB DDR4 ECC RDIMM • Dual 10GBaseT LAN ports • 2x M.2 Support by default • 2 SATA DOMs support with embedded power • 10 Gen4/ Gen3 U.2 NVMe SSD support	• Support up to 3 PCIe cards • Up to 2TB DDR4 ECC RDIMM • Dual 10GBaseT LAN Ports • 2x M.2 Support by default • 2 SATA DOMs Support with Embedded Power
Serverboard	SUPER® H12SSW-NT	SUPER® H12SSW-NTR	SUPER® H12SSW-NT
System Memory (Max.)	Up to 2TB 3DS ECC DDR4-3200MHz RDIMM/ LRDIMM, in 8 DIMM slots	Up to 4TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 3200MHz, in 16 DIMM slots	Up to 2TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 3200MHz, in 8 DIMM slots
Expansion Slots	2 PCIe 4.0 x16 (FH/HL) slots, 1 PCIe 4.0 x16 (LP) slot	2 PCIe 4.0 x16 (FH/HL) slots, 1 PCIe 4.0 x16 (LP) slot	2 PCIe 4.0 x16 (FH/HL) slots, 1 PCIe 4.0 x16 (LP) slot
Onboard Storage Controller	4 Hot-Swappable 3.5" SATA drive support; Optional 4 U.2 NVMe (PCIe Gen 3) drive support vs additional NVMe cables required	10 Hot-Swappable U.2 NVMe drive support; Optional 10 SATA3 drive support vs additional SATA cables required	10 Hot-Swappable 2.5" SATA drive support; Optional 2 U.2 NVMe (PCIe Gen 3) drive support vs additional NVMe cables required
Connectivity	2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 7 USB 3.0 ports (4 rear, 2 front, 1 Type A)	2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 7 USB 3.0 ports (4 rear, 2 front, 1 Type A)	2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 7 USB 3.0 ports (4 rear, 2 front, 1 Type A)
VGA/Audio	1 VGA 1 Aspeed AST2500 BMC	1 VGA 1 Aspeed AST2500 BMC	1 VGA 1 Aspeed AST2500 BMC
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port; Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port; Software Out of Band License key (SFT-OOB-LIC) included for OOB BIOS management
Drive Bays	4 Hot-Swappable 3.5" SATA drive support; Optional 4 U.2 NVMe (PCIe Gen 3) drive support vs additional NVMe cables required	10 Hot-Swappable U.2 NVMe drive support; Optional 10 SATA3 drive support vs additional SATA cables required	10 Hot-Swappable 2.5" SATA drive support; Optional 2 U.2 NVMe (PCIe Gen 3) drive support vs additional NVMe cables required
Peripheral Bays	Optional to support 1x Slim DVD-ROM Drive	N/A	N/A
Power Supply	500W Redundant Power Supplies Platinum Level (94%) (Full redundancy based on configuration and application load)	750W Redundant Power Supplies Platinum Level (94%) (Full redundancy based on configuration and application load)	500W Redundant Power Supplies Platinum Level (94%) (Full redundancy based on configuration and application load)
Cooling System	4 heavy duty fans w/ Optimal Fan Speed Control, Additional 1 heavy duty fan support w/ Optimal Fan Speed Control	6 heavy duty fans w/ Optimal Fan Speed Control	4 heavy duty fans w/ Optimal Fan Speed Control, Additional 1 heavy duty fan support w/ Optimal Fan Speed Control
Form Factor	1U Rackmount 437 x 43 x 650mm (17.2" x 1.7" x 25.6")	437 x 43 x 597mm (17.2" x 1.7" x 23.5")	437 x 43 x 597mm (17.2" x 1.7" x 23.5")

** AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer.*
*** For complete system only*

H12 WIO / STORAGE

(For Complete System Only)

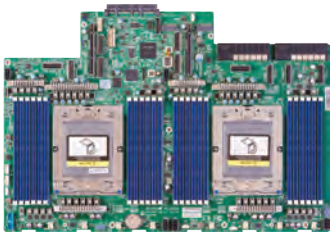
2U UP WIO

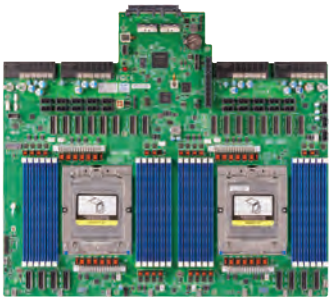
High Capacity Storage

MODEL	AS -2114S-WN24RT	ASG-1014S-ACR12N4H
Processor Support	Single AMD EPYC 7003 or 7002 Series Processor*; TDP up to 280W	Single AMD EPYC 7003 or 7002 Series Processor* TDP up to 240W
Key Applications	• Virtualization • Hyperconverge Storage • Cloud Computing • All Flash Storage	• Object Storage • Scale-Out Density • Database Applications • Hadoop & Ceph storage solutions
Outstanding Features	• 24-Port NVMe SSD Support • Up to 4TB DDR4 ECC RDIMM • Dual 10GBaseT LAN Ports • 2x M.2 Support by default • 2 SATA DOMs Support with Embedded Power	• Up to 4TB Registered ECC DDR4 • 4x 2.5" 7mm hot-swap NVMe drive bays • 3x PCIe 4.0 x16 slots (1x slot occupied by storage controller) • Pull-out drawer storage bay w/internal cable arm design
Serverboard	SUPER® H12SSW-NTR	SUPER® H12SSW-NTR
System Memory (Max.)	Up to 4TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 3200MHz, in 16 DIMM slots	Up to 4TB 3DS ECC RDIMM/LRDIMM; DDR4 up to 3200MHz, in 16 DIMMs
Expansion Slots	1 PCIe 4.0 x16 (FH/HL)	2 PCIe 4.0 x16 (FHHL); 1 PCIe 4.0 x8 (LP)
Onboard Storage Controller	24 Hot-Swappable U.2 NVMe drive support	NVMe drive bays via CPU SAS3/SATA3 drive bays via Broadcom 3916 RAID controller
Connectivity	2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 5 USB 3.0 ports (4 rear, 1 Type A)	2 10GBase-T Ethernet via Broadcom BCM57416 Controller; 2 USB 2.0 port(s) (2 Front_USB) 4 USB 3.0 port(s) (4 Rear_USB)
VGA/Audio	1 VGA 1 Aspeed AST2500 BMC	1 VGA; 1 ASPEED AST2500 BMC
Management	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port	Built-in Server management tool (IPMI 2.0, KVM/media over LAN) with dedicated LAN port
Drive Bays	24 Hot-Swappable U.2 NVMe drive support	12x 3.5" SAS/SATA drive bays; 4x 2.5" 7mm NVMe drive bays
Peripheral Bays	N/A	N/A
Power Supply	1200W Redundant Power Supplies Titanium Level (96%) (Full redundancy based on configuration and application load)	800W redundant Platinum Level high-efficiency power supplies
Cooling System	3 heavy duty fans w/ Optimal Fan Speed Control	6x 40x40x56mm counter-rotation PWM fans
Form Factor	2U Rackmount 437 x 89 x 630mm (17.2" x 3.5" x 24.8")	1U Rackmount 447 x 43 x 940mm (17.6" x 1.7" x 37")

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

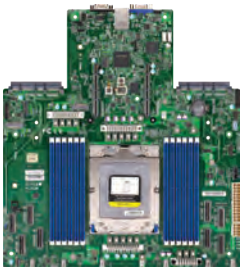
H13 MOTHERBOARDS





MODEL	H13DSH	H13DSG-O-CPU
Processor	AMD EPYC™ 9004 Series Processors	AMD EPYC™ 9004 Series Processors
Chipset	System on Chip	System on Chip
Form Factor	Proprietary, 17" x 11.5" (43.18cm x 29.21cm)	Proprietary, 17" x 14.7" (43.18cm x 37.34cm)
Memory Capacity & Slots	Up to 1.5TB ECC Registered RDIMM, DDR5-4800MHz; Up to 12TB 3DS ECC Registered RDIMM, DDR5-4800MHz, in 24 DIMM slots	Up to 1.5TB ECC Registered RDIMM, DDR5-4800MHz; Up to 12TB 3DS ECC Registered RDIMM, DDR5-4800MHz, in 24 DIMM slots
Expansion Slots	2 PCIe 5.0 x16 (in x16 slot), M.2 Interface: 2 PCIe 3.0 x4 Form Factor: 2280/22110 M.2 Key: M Key	20 PCIe 5.0 x8 MCIO to PCIe board 4 PCIe 5.0 x4 NVMe via MCIO **M.2 Interface:** 1 PCIe 3.0 x4 **Form Factor:** 2280/22110 **M.2 Key:** M-Key
Onboard RAID Controller	N/A	Asmedia ASM1061 controller controller for 2 SATA3 (6 Gbps) ports; Asmedia ASM1061
Onboard LAN	N/A	N/A
Onboard VGA	N/A	N/A
USB Ports	2USB 3.1 Gen1 port(s) via I/O board; 2 USB 3.1 Gen1 port(s) via header	2 USB 3.1 Gen1 port(s) (2 USB) 1 USB 2 port(s) (1 via header)
Other Onboard I/O Devices	Add 10 NVMe (PCIe 5.0 x8) ports via MCIO TPM 2.0 header 32 SATA3 ports via 4 MCIO" and "10 NVMe ports via MCIO	1 COM Port(s) (1 Serial Port) TPM 2 Header 4 NVMe (PCIe 5.0 x4) ports via MCIO
Manageability	SuperDoctor® 5, SPM, SUM, SSM, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool	SuperDoctor® 5;NMI;SUM;Watchdog;IPMI 2.0;KVM with dedicated LAN
PC Health Monitoring	System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support	VBAT, System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +12V, CPU thermal trip support
Thermal Control	Eight 6-pin fan headers	10x 4-pin fan headers (up to 10 fans)
Other Features	RoT	N/A
BIOS	AMI 32MB SPI Flash EEPROM	AMI 32MB SPI Flash EEPROM

H13 MOTHERBOARDS



MODEL	H13SST-G H13SST-GC	H13SSW
Processor	AMD EPYC™ 9004 series Processors	AMD EPYC™ 9004 series Processors
Chipset	System on Chip	System on Chip
Form Factor	Proprietary GrandTwin, 8.53" x 12.42" (21.67cm x 31.55cm)	Proprietary, 12.29" x 13.4" (31.22cm x 34.04cm)
Memory Capacity & Slots	Up to 3TB 3DS ECC Registered RDIMM DDR5-4800MHz in 12 DIMMs	Up to 3TB 3DS ECC Registered RDIMM DDR5-4800MHz in 12 DIMMs
Expansion Slots	M.2 Interface: 2 SATA/PCIe 5.0 x4 Form Factor: 2280 M.2 Key: M-Key	1 PCIe 5.0 x16 Right Riser Slot, 1 PCIe 5.0 x16 Left Riser Slot, 2 PCIe 5.0 x16 AIOM / OCP 3.0, M.2 Interface: 2 PCIe 3.0 x2, Form Factor: 2280/22110, M.2 Key: M-Key
Onboard RAID Controller	-GC: Broadcom 3808 SAS3 (12 Gbps) controller for 8 SAS3 (12 Gbps) ports	N/A
Onboard LAN	N/A	N/A
Onboard VGA	N/A	1 VGA port(s) 1 Aspeed AST2600 BMC
USB Ports	N/A	2 USB 2 port(s) (2 via header) 2 USB 3.1 Gen1 port(s) (2 USB)
Other Onboard I/O Devices	8 SATA3 ports via MCIO, 8 NVMe ports via MCIO, -GC: 8 SAS3 ports via SlimSAS	1 COM Port(s) (1 Serial Port) TPM header 16 SATA3 ports via MCIO
Manageability	SuperDoctor® 5, SPM, SUM, SSM, Watchdog, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, IPMI 2.0, KVM with dedicated LAN	SuperDoctor® 5, SPM, SUM, SSM, Watchdog, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, IPMI 2.0, KVM with dedicated LAN
PC Health Monitoring	VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby	VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby
Thermal Control	1x 4-pin fan header (up to 1 fan)	6x 4-pin fan headers (up to 6 fans)
Other Features	RoT	RoT
BIOS	AMI 32MB SPI Flash EEPROM	AMI 32MB SPI Flash EEPROM

H12 MOTHERBOARDS

ATX Mainstream

EATX Mainstream

MODEL	H12SSL-i H12SSL-C H12SSL-CT H12SSL-NT	H12DSi-N6 H12DSi-NT6
Processor	Single AMD EPYC 7003 or 7002 Series Processor*	Dual AMD EPYC 7003 or 7002 Series Processors*
Chipset	System on Chip	System on Chip
Form Factor	ATX 12" x 9.6"	EATX 12" x 13.05"
Memory Capacity & Slots	2TB ECC Registered, DDR4-3200MHz SDRAM in 8 DIMMs	4TB ECC Registered, DDR4-3200MHz SDRAM in 16 DIMMs
Expansion Slots	5 PCIe 4.0 x16 2 PCIe 4.0 x8 M.2 Interface: 2 PCIe 4.0 x4 M.2 Form Factor: 22110, 2280 M.2 Key: M-Key	3 PCIe 4.0 x16 3 PCIe 4.0 x8 M.2 Interface: 1 PCIe 4.0 x4 M.2 Form Factor: 22110, 2280 M.2 Key: M-Key
Onboard RAID Controller	-C: Broadcom 3008 SAS3 (12 Gbps) controller for 8 SAS3 (12 Gbps) ports; RAID 0,1,10 -CT: Broadcom 3008 SAS3 (12 Gbps) controller for 8 SAS3 (12 Gbps) ports; RAID 0,1,10	10 SATA3 (6 Gbps) ports
Onboard LAN	-i: Dual LAN with Broadcom BCM5720L Gigabit Ethernet Controller -C: Dual LAN with Broadcom BCM5720L Gigabit Ethernet Controller -CT: Dual LAN with Broadcom BCM57416 10GBase-T Ethernet Controller -NT: Dual LAN with Broadcom BCM57416 10GBase-T Ethernet Controller	-N6: Dual LAN with Broadcom BCM5720L Gigabit Ethernet Controller -NT6: Dual LAN with Broadcom BCM57416 10GBase-T Ethernet Controller
Onboard VGA	1 VGA; Aspeed AST2500 BMC	1 VGA; Aspeed AST2600 BMC
USB Ports	6 USB 3.0 ports (4 rear + 2 headers)	2 USB 2.0 ports (2 rear) 4 USB 3.0 ports (2 rear + 2 headers)
Other Onboard I/O Devices	1 COM Ports SATA DOM power connector TPM 1.2/ 2.0 header -i: 1 PCIe 4.0 NVMe x4 Internal Port -NT: 2 PCIe 4.0 NVMe x4 Internal Ports	1 COM Ports SATA DOM power connector TPM 1.2/ 2.0 header 4 PCIe 4.0 NVMe x4 Internal Ports
Manageability	IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5, Watchdog	IPMI (Intelligent Platform Management Interface) v2.0 with KVM support, IPMI2.0, KVM with dedicated LAN, SPM, SSM, SUM, SuperDoctor® 5
PC Health Monitoring	+3.3V, +5V, +5V standby, 3.3V standby, Monitors CPU voltages, Supports system management utility, VBAT	+12V, +3.3V, +5V, +5V standby, Chassis intrusion header, CPU temperature, LAN temperature, Memory temperature, Memory Voltages, Monitors CPU voltages
Thermal Control	7x fan header, 4-pin type of fan header, 7 fans with tachometer status monitoring, Dual Cooling Zone, Pulse Width Modulated (PWM) fan connectors, Status monitoring for speed control	8x fan header, 4-pin type of fan header, Dual Cooling Zone, Fan speed control, Overheat LED indication, PWM fan speed control
Other Features	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, UID	ACPI power management, Control of power-on for recovery from AC power loss, CPU thermal trip support for processor protection, UID, WOL
BIOS	AMI 256Mb Flash EEPROM	AMI 256Mb Flash EEPROM

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

System Management Software

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With a comprehensive range of high-end software solutions, Supermicro gives IT administrators the tools to optimize the management of IT systems and increase the utilization of computing and storage infrastructure. Whether you are looking to manage individual systems, optimize server lifecycle processes, or streamline operations for an entire data center, Supermicro has the right software to help you accomplish your goals.

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- Extensive security features

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License	• No license required	• SFT-OOB-LIC	• SFT-DCMS-SINGLE	• SFT-DCMS-SINGLE + • SFT-SDDC-SINGLE
Key Features*	• Secure remote console (KVM/ HTML5) • System temperature monitoring • System power thresholds & alerts • Component monitoring • Email alerting • Remote configuration • Offline diagnostics • Crash dump • License management	• Remote BMC management • Remote BIOS management • Out-of-Band systems checks • TPM Provisioning • Mount/Unmount ISO images from Samba/HTTP • Basic Redfish APIs • CIM management • SysLog	• Remote OS deployment • Auto-discovery • Power capping • RAID monitoring and configuration • HDD monitoring • Advanced Redfish APIs • FW update policy • System lock down • Crash screen/video capture	• 3rd Party vendor support • POD & Rack-level management • SDI Lifecycle management • Manage Composable Dissagregated Infrastructure • Zero-touch provisioning for network configuration • Single pane of glass for data center deployment • Rich analytics & telemetry • User defined role-based access control

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MKT-0002-11/2022-R20

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