

# Storage A+ Server ASG-2015S-E1CR24H

2U front/top-loading storage server with 24 hot-swap 3.5" SAS/SATA bays (SAS hardware RAID) and PCIe 5.0



More details here

## Key Applications

Enterprise Server, iSCSI SAN, HPC, Data Center, Database Processing & Storage, Corporate Database, Appliance Optimized Storage Building Blocks,

## Key Features

- Single Socket SP5 4th Generation AMD EPYC™ 9004 Scalable Processors. Up to 290W TDP.;
- 12 ECC DDR5-4800: LRDIMM/RDIMM;
- Two Dedicated PCIe 5.0 x16 AIOM slots (OCP 3.0 SFF compliant)  
Up to 6x PCIe 5.0 Slots (Slot #2 populated by 3908 controller);
- Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN per node;
- 24 3.5" Hot-swap SAS3/SATA3 drives, 2x Rear SATA Slots, 4x Optional Rear NVMe Slots, 2x NVMe M.2 (form factor: 2280/22110);
- 4x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1600W Redundant Power Supplies Titanium Level (96%);
- HW RAID support via Broadcom® 3908;



Form Factor	2U Rackmount Enclosure: (17.2" x 3.5" x 34") Package: (29" x 12" x 52")
Processor	Single Socket SP5 AMD EPYC™ 9004 Series Processors Up to 84C/168T; Up to 384MB Cache
System Memory	Slot Count: 12 DIMM slots Max Memory (2DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 26 bay(s) <ul style="list-style-type: none"> <li>• 12 front hot-swap 3.5" SAS/SATA drive bay(s)</li> <li>• 12 top-loading hot-swap 3.5" SAS/SATA drive bay(s)</li> <li>• 2 rear hot-swap 2.5" SATA drive bay(s)</li> </ul> Option A: Total 28 bay(s) <ul style="list-style-type: none"> <li>• 12 front hot-swap 3.5" SAS/SATA drive bay(s)</li> <li>• 12 top-loading fixed 3.5" SAS/SATA drive bay(s)</li> <li>• 2 rear hot-swap 2.5" SATA drive bay(s)</li> <li>• 2 rear hot-swap 2.5" NVMe drive bay(s)</li> </ul> Option B: Total 30 bay(s) <ul style="list-style-type: none"> <li>• 12 front hot-swap 3.5" SAS/SATA drive bay(s)</li> <li>• 12 top-loading hot-swap 3.5" SAS/SATA drive bay(s)</li> <li>• 4 rear hot-swap 2.5" NVMe drive bay(s)</li> <li>• 2 rear hot-swap 2.5" SATA drive bay(s)</li> </ul> M.2: 2 M.2 NVMe slot(s) (M-key 2280/22110)
Expansion Slots	Default <ul style="list-style-type: none"> <li>• 5 PCIe 5.0 x16 FHHL slot(s)</li> <li>• 1 PCIe 5.0 x8 FHHL slot(s)</li> <li>• 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</li> </ul> Option A <ul style="list-style-type: none"> <li>• 3 PCIe 5.0 x16 FHHL slot(s)</li> <li>• 1 PCIe 5.0 x8 FHHL slot(s)</li> <li>• 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</li> </ul> Option B <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 FHHL slot(s)</li> <li>• 2 PCIe 5.0 x16 AIOM slot(s) (OCP 3.0 compatible)</li> </ul>
On-Board Devices	Chipset: System on Chip Network Connectivity: Via AIOM

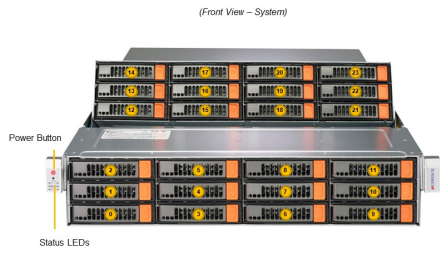
## Input / Output

LAN: 1 RJ45 1 GbE Dedicated IPMI LAN port(s)

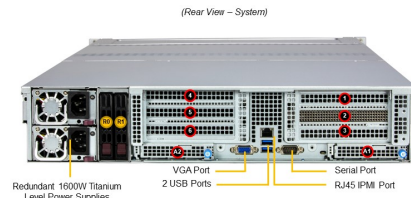
USB: 2 USB 3.0 port(s) (rear)

Video: 1 VGA port(s)

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Location	Description
① - ④	12 Hot-swap 3.5" SAS3/SATA3 Drive Bays (Front)
⑤ - ⑧	12 Hot-swap 3.5" SAS3/SATA3 Drive Bays (Riser)



Slot Description			Location	Description
Option 1	Option 2	Option 3	⑩ - ⑪	Hot-swap 2.5" SATA3 Drive Bays
① PCIe 5.0 x16	PCIe 5.0 x16	Rear NVMe N3		
② PCIe 5.0 x8*	PCIe 5.0 x8*	Rear NVMe N2		
③ PCIe 5.0 x16	PCIe 5.0 x16	PCIe 5.0 x16*		
④ PCIe 5.0 x16	Rear NVMe N1	Rear NVMe N1	⑫	PCIe 5.0 x16 (AIOAI)
⑤ PCIe 5.0 x16	Rear NVMe N0	Rear NVMe N0	⑬	PCIe 5.0 x16 (AIOAI)
⑥ PCIe 5.0 x16	PCIe 5.0 x16	PCIe 5.0 x16		

\*Occupied by 3965 SAS Controller

System Cooling	Fans: 4 Heavy Duty 8cm Fan(s)
Power Supply	1x 1600W Redundant Titanium Level power supply
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); SuperDoctor® 5; Super Diagnostics Offline ; TAS: Supermicro Thin-Agent Service (TAS); SAA(new!)
PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory 4+1 Phase-switching voltage regulator FAN: Fans with tachometer monitoring Status monitor for speed control Pulse Width Modulated (PWM) fan connectors Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 74.5 lbs (33.79 kg) Net Weight: 52 lbs (23.59 kg) Available Color: Silver
Operating Environment	RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (Non-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing)
Motherboard	<a href="#">Super H13SSW</a>
Chassis	<b>CSE-826S3TS-R1K62P1</b>