Storage A+ Server ASG-2015S-E1CR24L

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

Key Applications

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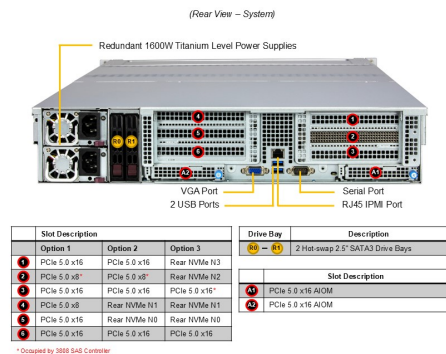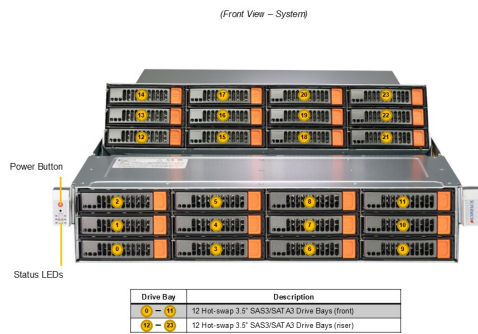
Key Features

- Single Socket SP5 AMD EPYC™ 9004/9005 Processor; up to 290W TDP (*AMD EPYC™ 9005 series drop-in support requires board revision 2.x);
- Support up to DDR5 12 DIMM slots (1DPC);
- Dedicated 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 SFF compliant) Up to 6 PCIe 5.0 slots (slot #2 populated by 3808 controller);
- Server remote management: IPMI 2.0 / KVM over LAN / Media over LAN per node;
- 24 Hot-swap 3.5" SAS3/SATA3 drives, 2 Rear SATA slots, 4 Optional rear NVMe slots, 2 NVMe M.2 slots (form factor: 2280/22110);
- 4x 8cm hot-swap counter-rotate redundant PWM cooling fans;
- 1600W Redundant Power Supplies Titanium Level (96%);
- HBA Controller support via Broadcom® 3808;

Form Factor	2U Rackmount Enclosure: (17.2" x 3.5" x 34") Package: (29" x 12" x 52")
Processor	Single processor(s) AMD EPYC™ 9004/9005 Series Processors (* AMD EPYC™ 9005 Series drop-in support requires board revision 2.x) Up to 84C/168T; Up to 384MB Cache
System Memory	Slot Count: 12 DIMM slots Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor) Max Memory (1DPC): Up to 4.5TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor)

Drive Bays Configuration	Default: Total 26 bays
	  • 12 front hot-swap 3.5" SAS/SATA drive bays
	  • 12 top-loading hot-swap 3.5" SAS/SATA drive bays
	  • 2 rear hot-swap 2.5" SATA drive bays
	Option A: Total 28 bays
	  • 12 front hot-swap 3.5" SAS/SATA drive bays
	  • 12 top-loading hot-swap 3.5" SAS/SATA drive bays
	  • 2 rear hot-swap 2.5" SATA drive bays
	  • 2 rear hot-swap 2.5" NVMe drive bays
	Option B: Total 30 bays
	  • 12 front hot-swap 3.5" SAS/SATA drive bays
	  • 12 top-loading hot-swap 3.5" SAS/SATA drive bays
	  • 4 rear hot-swap 2.5" NVMe drive bays
	  • 2 rear hot-swap 2.5" SATA drive bays
	M.2: 2 M.2 NVMe slots (M-key 2280/22110)

Expansion Slots	Default
	  • 4 PCIe 5.0 x16 FHHL slots
	  • 2 PCIe 5.0 x8 FHHL slots
	  • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)
	Option A
	  • 3 PCIe 5.0 x16 FHHL slots
	  • 1 PCIe 5.0 x8 FHHL slot
	  • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)
	Option B
	  • 2 PCIe 5.0 x16 FHHL slots
	  • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)

On-Board Devices	Chipset: System on Chip

Network Connectivity: Via AIOM

Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.0 ports(rear) Video: 1 VGA port

(Front View – System)

Power Button

Status LEDs

Drive Bay	Description
0 – 11	12 Hot-swap 3.5" SAS3/SATA3 Drive Bays (front)
12 – 23	12 Hot-swap 3.5" SAS3/SATA3 Drive Bays (riser)

(Rear View – System)

Redundant 1600W Titanium Level Power Supplies

VGA Port
2 USB Ports
Serial Port
RJ45 IPMI Port

Slot Description			
	Option 1	Option 2	Option 3
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 x8	Rear NVMe N1	Rear NVMe N1
5	PCIe 5.0 x16	Rear NVMe N0	Rear NVMe N0
6	PCIe 5.0 x16	PCIe 5.0 x16	PCIe 5.0 x16

Drive Bay	Description
R0 – R1	2 Hot-swap 2.5" SATA3 Drive Bays

Slot Description	
A1	PCIe 5.0 x16 AIOM
A2	PCIe 5.0 x16 AIOM

* Occupied by 3808 SAS Controller

System Cooling	Fans: Up to 4 Heavy Duty 8cm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	1x 1600W Redundant Titanium Level (96%) power supply
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer®; Supermicro Server Manager (SSM); Supermicro Update Manager (SUM); Supermicro SuperDoctor® 5 (SD5); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (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 to 35°C (50°F to 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	**Super H13SSW**
Chassis	**CSE-826S3TS-R1K62P1**