

Storage SuperServer ASG-4116S-NU160R

4U Storage server with 160 hot-swap 2.5" NVMe bays and PCIe 5.0



Key Applications

High Performance Computing, Engineering/scientific research, AI/Deep Learning Training, Industrial Automation, Healthcare, Conversational AI, Business Intelligence & Analytics, Drug Discovery, Climate and Weather Modeling, Finance & Economics,

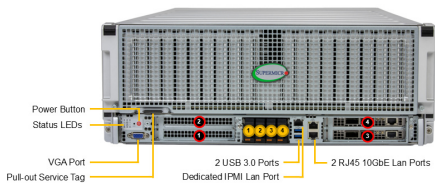
Key Features

- AMD EPYC™ 9005 Series Processors up to 360W;
- 160 U.2 Drive Bays + 4 E1.S Drive;
- Up to 12 DIMMs supporting up to 6TB DDR5-4800 in 1DPC or 6TB DDR5-6400 in 1DPC;
- Up to 4 PCIe 5.0 x16 FHHL slots;
- Up to 2 RJ45 10G LAN Ports;
- 2 Redundant 2600W power supplies;



Form Factor	4U Rackmount Enclosure: 448.4 x 176 x 845mm (17.65" x 6.9" x 33.2") Package: 730 x 680 x 1290mm (28.7" x 26.7" x 50.7")
Processor	Single processor(s) AMD EPYC™ 9005 Series Processors Up to 96C/192T; Up to 256MB Cache
System Memory	Slot Count: 12 DIMM slots Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 164 bays <ul style="list-style-type: none"> • 4 front hot-swap E1.S PCIe 5.0 x4 NVMe drive bays • 160 top-loading hot-swap 2.5" PCIe 4.0 x1 NVMe drive bays M.2: 2 M.2 NVMe slots (M-key)
Expansion Slots	PCI-Express (PCIe) Configuration: Default <ul style="list-style-type: none"> • 3 PCIe 5.0 x16 FHHL slots M.2: 2 M.2 NVMe slots (M-key 22110(default)/2280)
On-Board Devices	NVMe: NVMe; RAID 0/1 support(Native) Chipset: PCIe switch Network Connectivity: 2 RJ45 10GbE with Broadcom® BCM57416 IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port (ASPEED AST2600) 2 RJ45 10 GbE LAN ports (Broadcom® BCM57416) USB: 2 USB 3.2 Gen1 Type-A ports(front) Video: 1 VGA port TPM: 1 TPM header

(Front View – System)

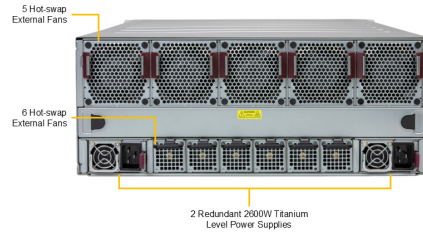


Drive Bay	Description
	4 Hot-swap E1.S (8.5-11mm) NVMe Drive Bays

Slot Description
PCIe 5.0 x16 FHFL

*PCIe slot #2 is unavailable if E1.S populated

(Rear View – System)



System Cooling	Fans: Up to 5 Hot-swappable rear fans with optimal fan speed control 80x80x80mm Fan(s) Up to 6 Hot-swappable rear fans with optimal fan speed control 40x40x56mm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 2600W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies
System BIOS	BIOS Type: AMI 64MB SPI Flash EEPROM
Management	Redfish API; SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); IPMI (Intelligent Platform Management Interface) v2.0 with KVM support; SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: 8+4 Phase-switching voltage regulator Monitors for CPU Cores, Chipset Voltages, Memory Fan: Fans with tachometer monitoring Pulse Width Modulated (PWM) fan connectors Status monitor for speed control Temperature: Monitoring for CPU and chassis environment Thermal Control for fan connectors
Dimensions and Weight	Weight: Gross Weight: 236 lbs (107 kg) Net Weight: 203 lbs (92 kg) Available Color: No Paint
Operating Environment	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 H14SSF
Chassis	CSE-SG401U2-R000NDFP