Storage SuperServer SSG-221E-DN2R24R

2U all-flash SBB with 24 U.2 NVMe drives and PCIe 5.0

More details here

Key Applications

High Availability Storage, Artificial Intelligence, NVMe Over Fabrics Solution,

Key Features

- Two hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:;
- Single Socket E (LGA-4677) 5th/4th Generation Intel® Xeon® Scalable processor. Up to 350W TDP.;
- 2 PCIe 5.0 x16 HHHL slots
  2 PCIe 5.0 x8 HHHL slots;
- Supports 8 DIMMs per node with 1DPC, up to 2TB memory capacity with 8 DIMMs of 256GB 3DS RDIMM DDR5-5600 ECC memory per node.;
- Dedicated 1GbE Private Ethernet connection for node-to-node communication (Heartbeat);
- 24 Hot-swap Dual Port Gen 5 U.2 NVMe SSD bays;
- Redundant Titanium 2000W Power Supplies;



Form Factor	2U Rackmount Enclosure: 449.4 x 88 x 762mm (17.7" x 3.47" x 30") Package: 670 x 245 x 1100mm (26.37" x 9.64" x 43.3")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon®4th Gen Intel® Xeon® Scalable processors
System Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM/LRDIMM
Drive Bays Configuration	Default: Total 24 bays • 24 front hot-swap 2.5" PCIe 5.0 NVMe drive bays M.2: 2 M.2 NVMe slots (M-key 2280/22110)
Expansion Slots	PCI-Express (PCIe) Configuration: Default • 2 PCIe 5.0 x16 HHHL slots • 2 PCIe 5.0 x8 HHHL slots M.2: 2 M.2 PCIe 3.0 x4 NVMe slots (M-key)
On-Board Devices	2 RJ45 10GbE with Intel® X710
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GbE LAN ports USB: 2 USB 3.0 ports (rear) Video: 1 VGA port Serial: 1 COM port (Rear)

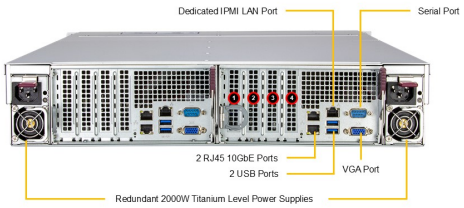
©2026 Copyright Super Micro Computer, Inc. All rights reserved. *Product specifications may change without notice

(Front View – System)



Drive Bay	Description
0 – 23	24 Hot-swap 2.5" NVMe Drive Bays

(Rear View – System)



Slot	Description
1 2	PCIe 5.0 x16 LP
3 4	PCIe 5.0 x8 LP

System Cooling	Fans: Up to 6 Heavy Duty 6cm Fan(s) Air Shroud: 2 Air Shrouds
Power Supply	2x 2000W Redundant Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 32MB SPI Flash EEPROM
Management	SuperCloud Composer® (SCC); 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: 7 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: 89.63 lbs (40.66 kg) Net Weight: 66.82 lbs (30.31 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-operating Relative Humidity: 5% to 95% ()
Motherboard	**Super X13SEB-TF**
Chassis	**CSE-229TS-R000NP**

©2026 Copyright Super Micro Computer, Inc. All rights reserved. *Product specifications may change without notice