

# Storage SuperServer SSG-221E-DN2R24R

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



## Key Applications

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

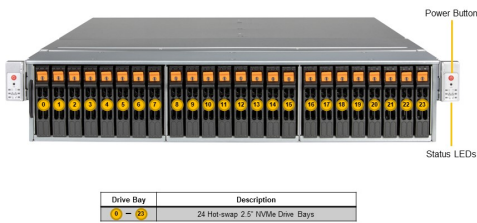
## Key Features

- 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 HHHHL slots  
2 PCIe 5.0 x8 HHHHL 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;

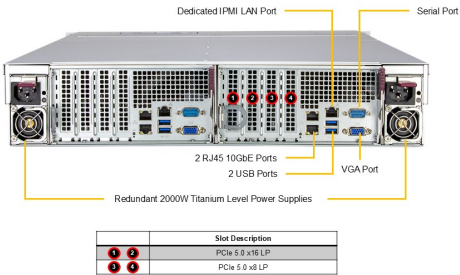


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|--------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Form Factor              | 2U Rackmount<br>Enclosure: 449.4 x 88 x 762mm (17.7" x 3.47" x 30")<br>Package: 670 x 245 x 1100mm (26.37" x 9.64" x 43.3")                                                                             |
| Processor                | Single Socket E (LGA-4677)<br>5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors                                                                                                           |
| System Memory            | Slot Count: 8 DIMM slots/8 Channels<br>Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM/LRDIMM                                                                                                      |
| Drive Bays Configuration | Default: Total 24 bays <ul style="list-style-type: none"> <li>• 24 front hot-swap 2.5" PCIe 5.0 NVMe drive bays</li> </ul> M.2: 2 M.2 NVMe slots (M-key 2280/22110)                                     |
| Expansion Slots          | PCI-Express (PCIe) Configuration: Default <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 HHHHL slots</li> <li>• 2 PCIe 5.0 x8 HHHHL slots</li> </ul> M.2: 2 M.2 PCIe 3.0 x4 NVMe slots (M-key) |
| On-Board Devices         | Chipset: System on Chip<br>Network Connectivity: 2 RJ45 10GbE with Intel® X710                                                                                                                          |
| Input / Output           | LAN: 1 RJ45 1 GbE Dedicated BMC LAN port<br>2 RJ45 10 GbE LAN ports<br>USB: 2 USB 3.0 ports(rear)<br>Video: 1 VGA port<br>Serial: 1 COM port(Rear)                                                      |

(Front View – System)



(Rear View – System)



|                       |                                                                                                                                                                                                                                                                                                                         |
|-----------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| System Cooling        | Fans: Up to 6 Heavy Duty 6cm Fan(s)<br>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®; 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<br>Monitors for CPU Cores, Chipset Voltages, Memory<br>FAN: Fans with tachometer monitoring<br>Pulse Width Modulated (PWM) fan connectors<br>Status monitor for speed control<br>Temperature: Monitoring for CPU and chassis environment<br>Thermal Control for fan connectors |
| Dimensions and Weight | Weight: Gross Weight: 89.63 lbs (40.66 kg)<br>Net Weight: 66.82 lbs (30.31 kg)<br>Available Color: Silver                                                                                                                                                                                                               |
| Operating Environment | RoHS Compliant<br>Operating Temperature: 10°C to 35°C (50°F to 95°F)<br>Non-operating Temperature: -40°C to 60°C (-40°F to 140°F)<br>Operating Relative Humidity: 8% to 90% ( )<br>Non-operating Relative Humidity: 5% to 95% ( )                                                                                       |
| Motherboard           | <a href="#">Super X13SEB-TF</a>                                                                                                                                                                                                                                                                                         |
| Chassis               | CSE-229TS-R000NP                                                                                                                                                                                                                                                                                                        |