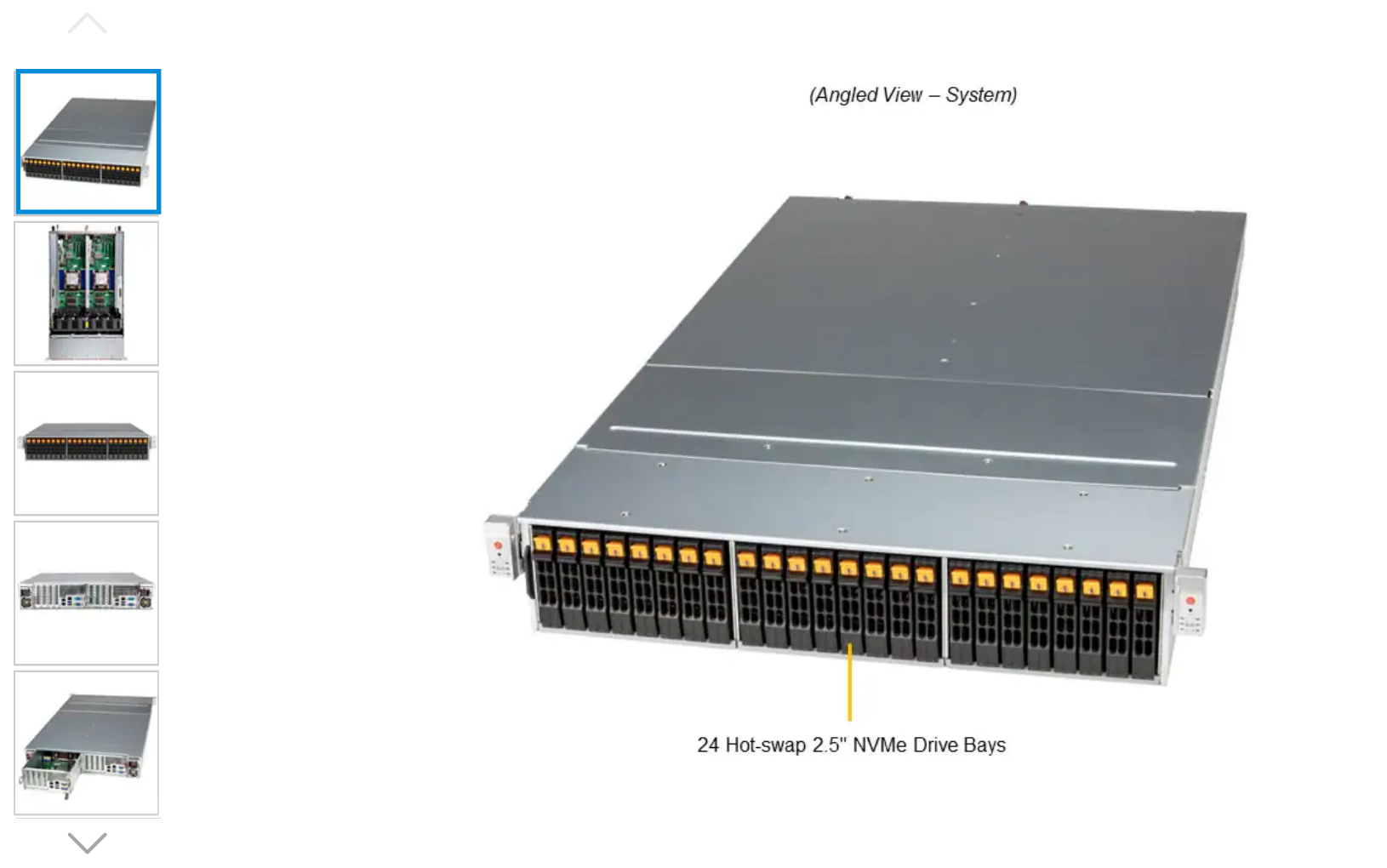


Storage SuperServer SSG-221E-DN2R24R (Complete System Only) New

Datasheet Share

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



Key Applications

- Artificial Intelligence (AI)
- High Availability Storage
- 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.

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Compare

Specifications Resources & Downloads Parts List

Product SKUs

SuperServer **SSG-221E-DN2R24R**

Motherboard

Super X13SEB-TF

Processor (per Node)

| | |
|-------------|---|
| CPU | Single Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors |
| Note | Supports 150W - 350W TDP CPUs (Air Cooled) |

System Memory (per Node)

| | |
|---------------|--|
| Memory | Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM/LRDIMM View Memory Options > |
|---------------|--|

On-Board Devices (per Node)

| | |
|-----------------------------|--|
| Chipset | System on Chip |
| Network Connectivity | 2 RJ45 10GbE with Intel® X710 View AOC Options > |

Input / Output (per Node)

| | |
|---------------|--|
| 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) |

System BIOS

| | |
|------------------|---------------------------|
| BIOS Type | AMI 32MB SPI Flash EEPROM |
|------------------|---------------------------|

Management

| | |
|-----------------------------|---|
| Software | 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! |
| Power configurations | Power-on mode for AC power recovery ACPI Power Management |

Security

| | |
|-----------------|---|
| Hardware | Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant |
| Features | Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown |

PC Health Monitoring

| | |
|--------------------|---|
| CPU | Monitors for CPU Cores, Chipset Voltages, Memory 7 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 |

Chassis

| | |
|--------------------|-------------------------|
| Form Factor | 2U Rackmount |
| Model | CSE-229TS-R000NP |

Dimensions and Weight

| | |
|------------------------|--|
| Height | 3.47" (88 mm) |
| Width | 17.7" (449.4 mm) |
| Depth | 30" (762 mm) |
| Package | 9.64" (H) x 26.37" (W) x 43.3" (D) |
| Weight | Gross Weight: 89.63 lbs (40.66 kg) Net Weight: 66.82 lbs (30.31 kg) |
| Available Color | Silver |

Front Panel

| | |
|----------------|---|
| LED | HDD activity LAN1 activity LAN2 activity Power Fail Power status System information (overheat/UID) |
| Buttons | Power On/Off button UID button |

Expansion Slots (per Node)

| | |
|---|---|
| PCI-Express (PCIe) Configuration | Default 2 PCIe 5.0 x16 HHHHL slots 2 PCIe 5.0 x8 HHHHL slots View AOC Options > |
| M.2 | 2 M.2 PCIe 3.0 x4 NVMe slots (M-key) |

Drive Bays / Storage (per Node)

| | |
|---------------------------------|---|
| Drive Bays Configuration | Default: Total 24 bays 24 front hot-swap 2.5" PCIe 5.0 NVMe drive bays View NVMe Options > |
| M.2 | 2 M.2 NVMe slots (M-key 2280/22110) View M.2 Options > |

System Cooling

| | |
|-------------|-------------------------|
| Fans | 6 Heavy Duty 6cm Fan(s) |
|-------------|-------------------------|

Power Supply

| | |
|--------------------------|---|
| | 2x 2000W Redundant Titanium Level (96%) power supplies |
| Dimension (WxHxL) | 73.5 x 40 x 203 mm |
| Input | 1000W: 100-127Vac 1000W: 100-127Vac / 50-60Hz 1800W: 200-220Vac 1800W: 200-220Vac / 50-60Hz 1980W: 220-230Vac 1980W: 220-230Vac / 50-60Hz 2000W: 220-240Vac 2000W: 220-240Vac / 50-60Hz (for UL only) 2000W: 230-240Vdc 2000W: 230-240Vac 2000W: 230-240Vac / 50-60Hz 2000W: 230-240Vdc / 50-60Hz (for China only) |
| +12V | Max: 83A / Min: 0A (100Vac-127Vac) Max: 150A / Min: 0A (200Vac-220Vac) Max: 165A / Min: 0A (220Vac-230Vac) Max: 166A / Min: 0A (230Vac-240Vac) |
| 12V SB | Max: 3.5A / Min: 0A Max: 3.5A |
| Output Type | Backplanes (gold finger) |

Operating Environment

| | |
|----------------------------|---|
| ROHS | RoHS Compliant |
| Environmental Spec. | 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% (I) Non-operating Relative Humidity: 5% to 95% (I) |

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Global SKU English

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