

UP SuperServer SYS-111C-NR

1U UP CloudDC with 10 hot-swap 2.5" NVMe/SAS/SATA bays and 2 PCIe 5.0 slots + 2 PCIe 5.0 AIOM slots



Key Applications

Virtualization, HPC, CDN/Edge Nodes, Cloud Computing, Data Center
Optimized, Storage Headnode,

Key Features

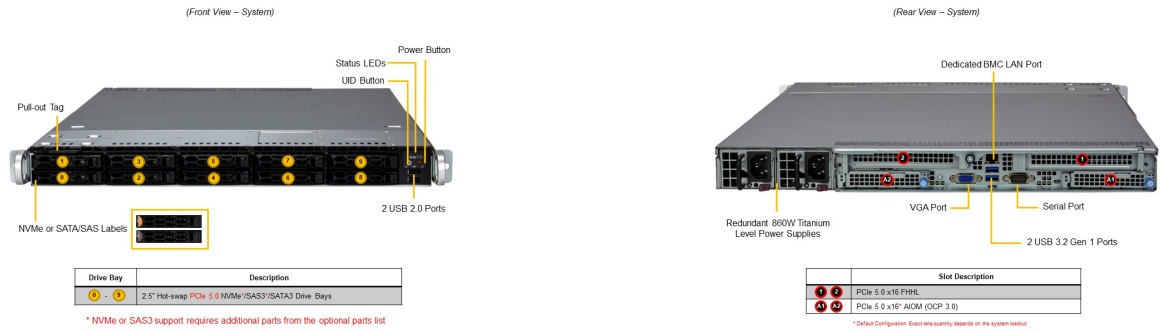
- Single Socket E (LGA-4677) 4th/5th Gen Intel® Xeon® Scalable processors.
Up to 350W TDP;
- Intel® C741 Chipset;
- 16 DIMMs; Supports 3DS DDR5 RDIMM. Up to 5600 MHz;
- Dual AIOM (OCP 3.0) for networking (NCSI available), 1 dedicated IPMI LAN;
- 10x front hot-swap 2.5" SATA3 drive bays (Optional all 10 hybrid Gen5 NVMe), SAS3 with additional SAS controller card;
- Redundant Now Titanium 860W Power Supplies;



Form Factor	1U Rackmount Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5") Package: 605 x 197 x 822mm (23.8" x 7.8" x 32.4")
Processor	Single Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Up to 64C/128T; Up to 320MB Cache
GPU	Max GPU Count: Up to 2 single-width GPUs Supported GPU: NVIDIA PCIe: A2, L4 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 16 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM Max Memory (2DPC): Up to 4TB 4400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 10 bays • 10 front hot-swap 2.5" SAS*/SATA drive bays Option A: Total 10 bays • 6 front hot-swap 2.5" SAS*/SATA drive bays • 4 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA drive bays Option B: Total 10 bays • 10 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA drive bays (*NVMe/SAS support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 PCIe 3.0 x2 NVMe slots (M-key 2280/22110)
Expansion Slots	Default • 2 PCIe 5.0 x16 FHHL slots • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible) Option A • 2 PCIe 5.0 x16 FHHL slots • 1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible) • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) Option B • 2 PCIe 5.0 x16 FHHL slots • 1 PCIe 5.0 x8 AIOM slot (OCP 3.0 compatible)
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support

NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)
Network Connectivity: Via AIOM

Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 2 USB 3.2 Gen1 Type-A ports (rear) 2 USB 2.0 Type-A ports (front) Video: 1 VGA port Serial: 1 COM port (Rear) TPM: 1 TPM header
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System Cooling	Fans: Up to 6 middle cooling PWM 40x40x56mm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 860W Redundant (1 + 1) 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: 8 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: 40 lbs (18.1 kg) Net Weight: 25 lbs (11.3 kg) Available Color: Black front & silver body
Operating Environment	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) Operating Relative Humidity: 8% to 80% (non-condensing) Non-operating Relative Humidity: 8% to 90% (non-condensing)
Motherboard	Super X13SEDW-F
Chassis	CSE-LB16TS-R0AWN3