

CloudDC SuperServer SYS-121C-TN10R

1U DP CloudDC with 10 hot-swap 2.5" NVMe/SAS/SATA bays and 2 PCIe 5.0 x16 slots + 2 PCIe 5.0 x16 AIOM slots



Key Applications

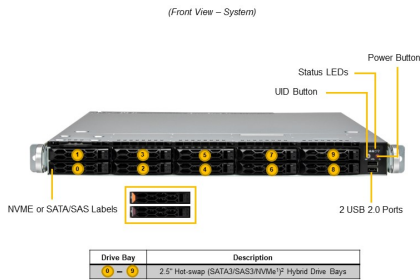
Web Server/Firewall Application, Data Center Optimized/Value IaaS, Cloud Computing/Compact Server, DNS & Gateway Servers/Firewall Application, CDN/Edge Nodes,

Key Features

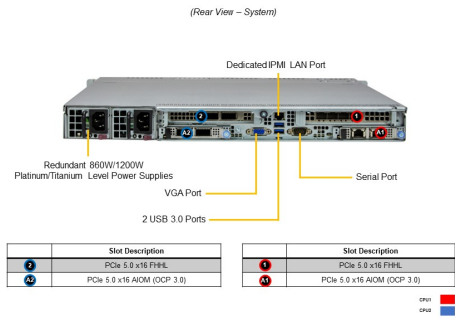
- Dual sockets E (LGA-4677) 5th and 4th Gen Intel® Xeon® Scalable processors;
- 16 DIMMs up to 4TB 3DS ECC DDR5-5600: RDIMM;
- 2 PCIe 5.0 x16 FHHL; 2 PCIe 5.0 x4 NVMe M.2;
- Dual AIOM (OCP 3.0) slots with NCSI for networking, 1 dedicated IPMI LAN;
- 10x 2.5" hot-swap hybrid NVMe/SATA/SAS drive bays;
- 6 counter-rotating 4 cm PWM fans with optimal fan speed control, 2 air shrouds;
- 860W redundant Titanium level 100-240Vac and 200-240 Vdc power supplies;
- 1 VGA, 1 COM, 2 USB 3.0 (rear), 2 USB 2.0 (front);



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	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon®/4th Gen Intel® Xeon® Scalable processors Up to 36C/72T; Up to 82.5MB Cache per CPU
GPU	Max GPU Count: Up to 2 single-width GPUs Supported GPU: NVIDIA PCIe: A2, L4 Intel PCIe: Intel Data Center GPU Flex 140
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 10 bays • 10 front hot-swap 2.5" NVMe*/SAS*/SATA* drive bays (*NVMe/SAS/SATA support may require additional storage controller and/or cables, please see the optional parts list for details) M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 2280; VROC required for RAID)
Expansion Slots	Default • 2 PCIe 5.0 x16 FHHL slots • 2 PCIe 5.0 x16 AIOM slots (OCP 3.0 compatible)
On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support NVMe: NVMe; RAID 0/1/5/10 support(VROC HW 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



¹ NVMe device populated in drive bay #0 is limited to PCIe 4.0 with four UPI processors
² Drives require corresponding data cable(s) from the optional parts list



System Cooling	Fans: Up to 6x 4cm heavy duty fans with optimal fan speed control Air Shroud: 2 Air Shrouds
Power Supply	2x 860W Redundant (1 + 1) Titanium Level (96%) Hot-plug power supplies
System BIOS	BIOS Type: AMI 32MB SPI FLASH ROM
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	RoHS Compliant Name: A2 Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -30°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 80% (max 21° DP; non-condensing) Non-operating Relative Humidity: 8% to 90% (max 38° DP; non-condensing)
Motherboard	Super X13DDW-A
Chassis	CSE-LB16TS-R0AWNP3