CloudDC SuperServer SYS-621C-TN12R

2U DP CloudDC with 12 hot-swap 3.5" NVMe/SAS/SATA bays and 4 PCIe 5.0 x16 slots + 2 PCIe 5.0 x16 AIOM slots

More details here

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;
- 4 PCIe 5.0 x8 FHHL (optional: combine into 2 PCIe 5.0 x16); 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;
- 12x 3.5/2.5" hot-swap hybrid NVMe/SATA/SAS drive bays;
- 3 heavy duty fans with optimal fan speed control, 1 air shroud;
- 1200W redundant Titanium level 100-240Vac and 200-240 Vdc power supplies;
- 1 VGA, 1 COM, 2 USB 3.0 (rear);

Form Factor	2U Rackmount Enclosure: 437 x 89 x 648mm (17.2" x 3.5" x 25.5") Package: 679 x 296 x 876mm (26.7" x 11.4" x 34.5")
Processor	Dual Socket E (LGA-4677) 5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Up to 64C/128T; Up to 112.5MB Cache per CPU
GPU	Max GPU Count: Up to 2 double-width or 6 single-width GPUs Supported GPU: NVIDIA PCIe: H100, H100 NVL, A2, L4, L40, L40S, RTX A4000, RTX A4500, RTX A5000, RTX A6000 Intel PCIe: Intel Data Center GPU Flex 140, Intel Data Center GPU Flex 170
System Memory	Slot Count: 16 DIMM slots Max Memory (1DPC): Up to 4TB 5600MT/s ECC DDR5 RDIMM

Drive Bays Configuration	Default: Total 12 bays
	  • 12 front hot-swap 3.5" NVMe*/SAS*/SATA* drive bays
	Option A: Total 12 bays
	  • 12 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(default); VROC required for RAID)

Expansion Slots	PCI-Express (PCIe) Configuration: Default
	  • 4 PCIe 5.0 x8 (in x16) FHFL slots
	  • 2 PCIe 5.0 x16 (in x16) FHHL slots
	  • 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible)
	Option A
	  • 2 PCIe 5.0 x16 (in x16) FHFL slots
	  • 2 PCIe 5.0 x16 (in x16) FHHL slots
	  • 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible)
	Option B
	  • 4 PCIe 5.0 x16 (in x16) FHFL slots
	  • 2 PCIe 5.0 x16 (in x16) FHHL slots
	  • 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible)
	Option C
	  • 2 PCIe 5.0 x16 (in x16) FHFL double-width slots
	  • 2 PCIe 5.0 x16 (in x16) FHHL slots
	  • 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible)
	CXL Support: Up to 2 CXL 1.1 x16/x8 Type 2/Type 3 devices

On-Board Devices	SATA: SATA (6Gbps) ; RAID 0/1/5/10 support

NVMe: NVMe; RAID 0/1/5/10 support(VROC HW key required)
Chipset: Intel® C741
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)
	Video: 1 VGA port
	Serial: 1 COM port(rear)
	TPM: 1 TPM header

NVMe: NVMe; RAID 0/1/5/10 support(VROC HW key required)
Chipset: Intel® C741
Network Connectivity: Via AIOM

Input / Output
LAN: 1 RJ45 1 GbE Dedicated BMC LAN port
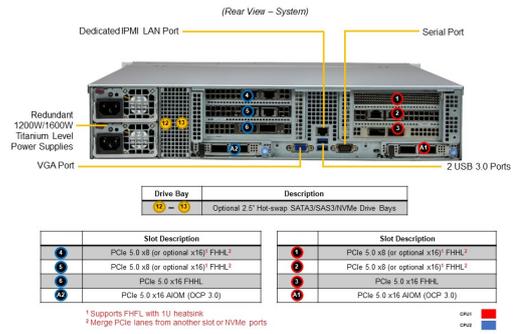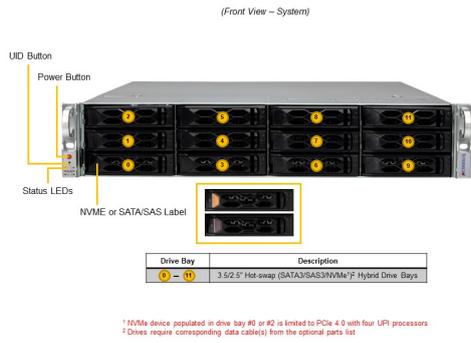USB: 2 USB 3.2 Gen1 Type-A ports(rear)
Video: 1 VGA port
Serial: 1 COM port(rear)

(Front View – System)

UID Button
Power Button
Status LEDs
NVME or SATA/SAS Label

Drive Bay	Description
0 — 11	3.5/2.5" Hot-swap (SATA3/SAS3/NVMe[1])[2] Hybrid Drive Bays

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

(Rear View – System)

Dedicated IPMI LAN Port
Serial Port
Redundant 1200W/1600W Titanium Level Power Supplies
VGA Port
2 USB 3.0 Ports

Drive Bay	Description
12 — 13	Optional 2.5" Hot-swap: SATA3/SAS3/NVMe Drive Bays

	Slot Description
4	PCIe 5.0 x8 (or optional x16)[1] FHHL[2]
5	PCIe 5.0 x8 (or optional x16)[1] FHHL[2]
6	PCIe 5.0 x16 FHHL
A2	PCIe 5.0 x16 AIOM (OCP 3.0)

	Slot Description
1	PCIe 5.0 x8 (or optional x16)[1] FHHL[2]
2	PCIe 5.0 x8 (or optional x16)[1] FHHL[2]
3	PCIe 5.0 x16 FHHL
A1	PCIe 5.0 x16 AIOM (OCP 3.0)

[1] Supports FHFL with 1U heatsink
[2] Merge PCIe lanes from another slot or NVMe ports

CPU1
CPU2

System Cooling	Fans: Up to 3x 8cm heavy duty fans with optimal fan speed control Air Shroud: 1 Air Shroud
Power Supply	2x 1200W Redundant Titanium Level (96%) Hot-plug power supplies
System BIOS	BIOS Type: AMI 32MB SPI FLASH ROM
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: 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: 59 lbs (26.76 kg) Net Weight: 33 lbs (15 kg) Available Color: Black front & sliver 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-LA26TS-R1K23AWP1