

CloudDC SuperServer SYS-112C-TN

1U UP CloudDC with DC-MHS, up to 12 hot-swap 2.5" NVMe/SAS/SATA bays and 2 PCIe 5.0 x16 slots + 1 PCIe 5.0 x16 AIOM slot



More details here

Key Applications

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

Key Features

- All-in-one platform for cloud data centers, based on the OCP Data Center Modular Hardware System (DC-MHS) with flexible I/O and storage configurations
- Based on Modular Scalable DeNsity Optimized HPM Form Factor (M-SDNO)
- Support DC-SCM module with OpenBMC;
- Single Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores;
- 16 DIMM slots supporting DDR5 RDIMM(2DPC/1DPC) or MRDIMM(1DPC);
- Support FH DPU and single slot GPU;
- Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible);
- Breeze through high throughput workloads with PCIe 5.0 NVMe drive support;
- Trusted Platform Module (TPM) 2.0 9672 onboard;

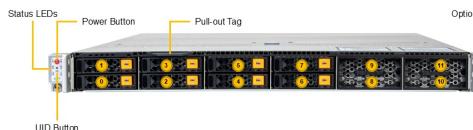


Form Factor	1U Rackmount Enclosure: 437 x 43 x 747mm (17.2" x 1.7" x 29.4") Package: (23.8" x 8.1" x 40.6")
Processor	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/172T; Up to 336MB Cache E-cores: Up to 144C/144T; Up to 108MB Cache
GPU	Max GPU Count: Up to 2 single-width GPUs Supported GPU: NVIDIA PCIe: 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 6400MT/s ECC DDR5 RDIMM Max Memory (1DPC): Up to 512GB 8000MT/s ECC DDR5 MRDIMM (P-core only) Max Memory (2DPC): Up to 4TB 5200MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays Option A: Total 12 bays <ul style="list-style-type: none"> • 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays • 4 front hot-swap 2.5" SAS*/SATA* drive bays Option B: Total 12 bays <ul style="list-style-type: none"> • 12 front hot-swap 2.5" PCIe 5.0 x4 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 x2 NVMe slots (M-key 2280(default)/22110; optional configuration)
Expansion Slots	Default <ul style="list-style-type: none"> • 2 PCIe 5.0 x16 FHHL slots • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
On-Board Devices	NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) Chipset: System on Chip Network Connectivity: Via AIOM
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port (via DC-SCM) USB: 2 USB 3.2 Gen1 Type-A ports(Rear) (via DC-SCM)

Video: 1 Mini-DP port(Rear) (via DC-SCM)

TPM: 1 TPM header

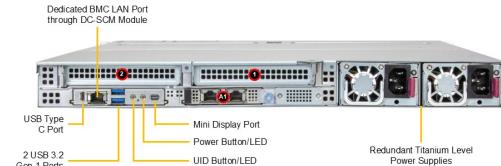
(Front View – System)



Drive Bay	Description
8	Hot-swap 2.5" PCIe 5.0 NVMe®/SAS®/SATA® Drive Bays
4	Hot-swap 2.5" PCIe 5.0 NVMe®/SAS®/SATA® Drive Bays (optional)

*NVMe/SAS/SATA support requires additional parts from the optional parts list.

(Rear View – System)



Slot	Description
PCIe 5.0 x16 FHHL	PCIe 5.0 x16 FHHL
PCIe 5.0 x16 AIOH (OCP 3.0)	PCIe 5.0 x16 AIOH (OCP 3.0)

System Cooling

Fans: Up to 8 Counter-Rotating PWM 40x40x56mm Fan(s)
 Air Shroud: 1 CPU Air Shroud
 1 M.2 Side Air Shroud

Power Supply

2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies

System BIOS

BIOS Type: AMI 32MB SPI Flash EEPROM

Management

SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!

PC Health Monitoring

CPU: Monitors for CPU Cores, Chipset Voltages, Memory
 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

Dimensions and Weight

Weight: Gross Weight: 47 lbs (21.3 kg)
 Net Weight: 31 lbs (14.1 kg)
 Available Color: Black

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 X14SBHM](#)

Chassis

[CSE-MD101TS-R000NDP](#)