

# 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

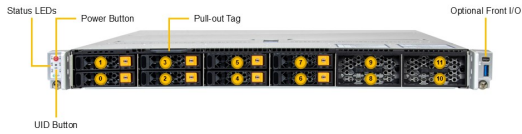
- All-in-one platform for cloud data centers, based on the OCP Data Center Modular Hardware System (DC-MHS) with flexible I/O and storage configurations  
Based on Modular Scalable DeNsity Optimized HPM Form Factor (M-SDNO)  
Support DC-SCM module with OpenBMC;
- Single Intel® Xeon® 6700/6500 series 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;



<b>Form Factor</b>	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")
<b>Processor</b>	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
<b>GPU</b>	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
<b>System Memory</b>	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
<b>Drive Bays Configuration</b>	Default: Total 8 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays</li> </ul> Option A: Total 12 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays</li> <li>• 4 front hot-swap 2.5" SAS*/SATA* drive bays</li> </ul> Option B: Total 12 bays <ul style="list-style-type: none"> <li>• 12 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA* drive bays</li> </ul> (*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)
<b>Expansion Slots</b>	Default <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 FHHL slots</li> <li>• 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)</li> </ul>
<b>On-Board Devices</b>	NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) Network Connectivity: Via AIOM
<b>Input / Output</b>	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)



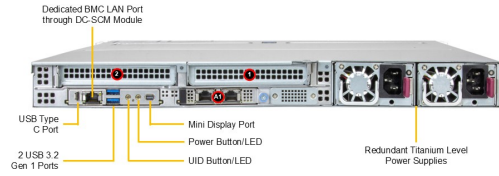
(Front View – System)



Drive Bay	Description
1 – 8	8 Hot-swap 2.5" PCIe 5.0 NVMe/SAS/SATA Drive Bays
9 – 12	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	Slot Description
1, 2	PCIe 5.0 x16 FHFL
3, 4	PCIe 5.0 x16 AIOM (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 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: 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	<a href="#"><b>Super X14SBHM</b></a>
Chassis	<b>CSE-MD101TS-R000NDP</b>