

CloudDC SuperServer AS -1116CS-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



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 DeNsity Optimized HPM Form Factor (M-DNO)
Support DC-SCM module with OpenBMC;
- Single AMD EPYC™ 9005/9004 Series Processor;
- Support up to DDR5 12 DIMM slots (1DPC);
- 1 AIOM (OCP 3.0)
1 DC-SCM;
- 2 PCIe 5.0 x16 FHHL slots;
- Up to 12 front hot-swap 2.5" NVMe/SAS/SATA drive bays;
- 2 Redundant 1000W Titanium Level power supplies;
- Support for up to 2 single-width GPU accelerator cards;
- 1U Rackmount chassis with 29.4" (747mm) depth;



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 processor(s) AMD EPYC™ 9005/9004 Series Processors Up to 192C/384T
GPU	Max GPU Count: Up to 2 single-width GPUs CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 12 DIMM slots/12 Channels Max Memory (1DPC): Up to 4.5TB 6000MT/s ECC DDR5 RDIMM (AMD EPYC™ 9005 Series Processor) Max Memory (1DPC): Up to 3TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC™ 9004 Series Processor)
Drive Bays Configuration	Default: Total 8 bays <ul style="list-style-type: none"> • 8 front hot-swap 2.5" PCIe 5.0 NVMe*/SAS*/SATA* drive bays Option A: Total 12 bays <ul style="list-style-type: none"> • 12 front hot-swap 2.5" PCIe 5.0 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 3.0 x2 NVMe slots (M-key 2280(default)/22110)
Expansion Slots	PCI-Express (PCIe) Configuration: 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) CXL Support: Up to 4 CXL 2.0 x16 devices
On-Board Devices	Chipset: System on Chip Network Connectivity: Via AIOM IPMI: Support for Intelligent Platform Management Interface v.2.0 IPMI 2.0 with virtual media over LAN and KVM-over-LAN support
Input / Output	LAN: 1 RJ45 1 GbE Dedicated BMC LAN port USB: 1 USB 2.0 Type-A port(Rear) 1 USB 3.2 Gen1 Type-A port(Rear) Video: 1 VGA port(Rear) TPM: 1 TPM header

(Front View – System)

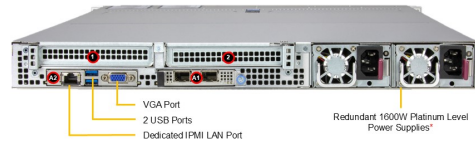


Drive Bay	Description
	8 Hot-swap 2.5" NVMe/SAS/SATA ¹ Drive Bays
	4 Hot-swap 3.5" NVMe/SAS/SATA ¹ Drive Bays (optional) ²

¹NVMe/SAS/SATA support requires additional parts from the optional path list

²Drive bay B-11 with optional drive tray and backplate, see optional part list

(Rear View – System)



VESA Port
2 USB Ports
Dedicated IPMI LAN Port

Redundant 1600W Platinum Level Power Supplies*

Slot	Slot Description
	PCIe 5.0 x16 FHFL
	PCIe 5.0 x16 FHFL
	PCIe 5.0 x16 AOM (DCP 3.0)
	DC-SCM Module

*Full redundancy based on configuration and application load

System Cooling	Fans: 8 Counter-Rotating PWM 40x40x56mm Fan(s)
Power Supply	2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	<p>BIOS Type: AMI 64MB SPI Flash EEPROM</p> <p>BIOS Features: Plug and Play (PnP)</p> <ul style="list-style-type: none"> SMBIOS 3.5 or later UEFI 2.8 USB Keyboard support ACPI 6.5
Management	SuperCloud Composer; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); KVM with dedicated LAN ; IPMI 2.0; Supermicro Thin-Agent Service (TAS); OOB Management Package (SFT-OOB-LIC); SuperServer Automation Assistant (SAA) New!; IPMIView
PC Health Monitoring	<p>CPU: Monitors for CPU Cores, Chipset Voltages, Memory</p> <p>FAN: Fans with tachometer monitoring</p> <ul style="list-style-type: none"> Status monitor for speed control Pulse Width Modulated (PWM) fan connectors <p>Temperature: Monitoring for CPU and chassis environment</p> <ul style="list-style-type: none"> Thermal Control for fan connectors <p>Voltage:</p> <p>System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support</p>
Dimensions and Weight	<p>Weight: Gross Weight: 49 lbs (22.2 kg)</p> <p>Net Weight: 34 lbs (15.4 kg)</p> <p>Available Color: Black</p>
Operating Environment	<p>Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F)</p> <p>Non-operating Temperature: -30°C to 60°C (-22°F to 140°F)</p> <p>Operating Relative Humidity: 8% to 80% (non-condensing)</p> <p>Non-operating Relative Humidity: 8% to 90% (non-condensing)</p>
Motherboard	Super H14SHM
Chassis	CSE-MD101TS-R000NDP