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

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 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), speed up to 6400MT/s
  (Please check System Memory Section for detail);
- 2 PCIe 5.0 x16 FHHL slots;
- Flexible networking options with 1 AIOM networking slot (OCP NIC 3.0 compatible)
  1 RJ45 1 GbE Dedicated BMC LAN Port (DC-SCM);
- 8 Hot-swap 2.5" NVMe/SATA/SAS drive bays
  Optional 4 Hot-swap 2.5" NVMe/SAS/SATA drive bays
  Optional RAID support via storage add-on card;
- Support up to 2 FHHL GPU accelerator cards;
- Dual 1000W / 2000W Redundant Titanium Level power supplies
  (Power supply full redundancy based on configuration and application load);

Form Factor	1U Rackmount Enclosure: 437 x 42 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 3TB 6400MT/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 • 8 front hot-swap 2.5" PCIe 5.0 NVMe*/SAS*/SATA* drive bays Option A: Total 12 bays • 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 • 2 PCIe 5.0 x16 FHHL slots • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible) CXL Support: Up to 2 CXL 2.0 x16 devices
On-Board Devices	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

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(Front View – System)



Drive Bay	Description
0 – 7	8 Hot-swap 2.5" NVMe/SAS/SATA* Drive Bays

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

(Front View – System)

Optional Configuration



Drive Bay	Description
0 – 11	12 Hot-swap 2.5" NVMe/SAS/SATA* Drive Bays

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

System Cooling	Fans: Up to 8 Counter-Rotating PWM 40x40x56mm Fan(s) Air Shroud: 1 Air Shroud
Power Supply	2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB SPI Flash EEPROM BIOS Features: Plug and Play (PnP) 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	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 Voltage: System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support
Dimensions and Weight	Weight: Gross Weight: 49 lbs (22.2 kg) Net Weight: 34 lbs (15.4 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 H14SHM**
Chassis	**CSE-MD101TS-R000NDP**

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