Twin SuperServer AS -2126FT-HE-LCC

2U 4-Node FlexTwin™ with liquid cooling
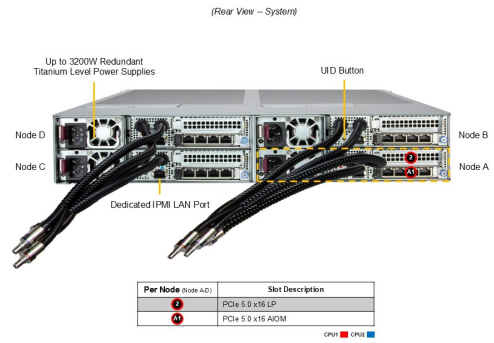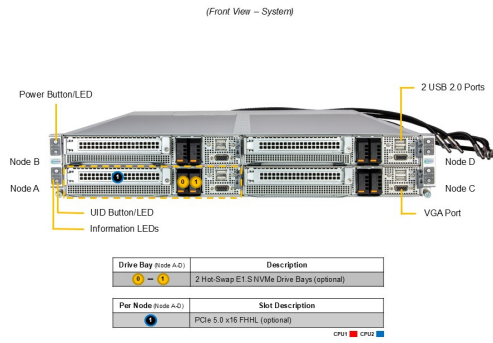
Key Applications

Oil & Gas, Scientific Research, High Performance Computing (HPC), Research Lab,

Key Features

- Dual AMD EPYC™ 9005/9004 Series Processors up to 500W with liquid cooling;
- Up to 24 DIMMs supporting up to 9TB DDR5-6000 in 1DPC;
- Flexible networking with up to 1 OCP 3.0 compatible AIOM slots;
- Optional 1 PCIe 5.0 x16 FHHL slot + 1 PCIe 5.0 x16 LP slot;
- Optional 2 E1.S Slots + Optional 2 M.2 NVME drive Slots;
- 4 Redundant Up to 3200W Titanium Level Power Supplies;
- Four hot-pluggable systems (nodes) in a 2U form factor. Each node supports the following:;

Form Factor	2U Rackmount Enclosure: 449 x 88 x 942mm (17.67" x 3.46" x 37.09") Package: 693 x 275 x 1278mm (27.29" x 10.83" x 50.32")
Processor	Dual processor(s) AMD EPYC™ 9005/9004 Series Processors Up to 192C/384T; Up to 512MB Cache per CPU
System Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 9TB 6000MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Option A: Total 2 bays • 2 front hot-swap E1.S NVMe drive bays M.2: 2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110; Optional Configuration)

Expansion Slots	PCI-Express (PCIe) Configuration: Default
	    • 1 PCIe 5.0 x16 LP slot
	    • 1 PCIe 5.0 x16 AIOM slot (OCP 3.0 compatible)
	Option A*
	    • 1 PCIe 5.0 x16 (in x16) LP slot
	    • 1 PCIe 5.0 x16 (in x16) AIOM slot (OCP 3.0 compatible)
	    • 1 PCIe 5.0 x16 (in x16) FHHL slot
	M.2: 2 M.2 NVMe slots (M-key 22110(default); Optional Configuration)

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: 2 USB 3.0 ports(front) Video: 1 VGA port TPM: 1 TPM Onboard/port 80

(Front View – System)

Power Button/LED
Node B
Node A
UID Button/LED
Information LEDs
2 USB 2.0 Ports
Node D
Node C
VGA Port

Drive Bay (Node A-D)	Description
0 — 1	2 Hot-Swap E1.S NVMe Drive Bays (optional)

Per Node (Node A-D)	Slot Description
1	PCIe 5.0 x16 FHHL (optional)

CPU1 CPU2

(Rear View – System)

Up to 3200W Redundant
Titanium Level Power Supplies
UID Button
Node D
Node C
Node B
Node A
Dedicated IPMI LAN Port

Per Node (Node A-D)	Slot Description
2	PCIe 5.0 x16 LP
A1	PCIe 5.0 x16 AIOM

CPU1 CPU2

System Cooling	Fans: 16 counter-rotating 40x40x56mm Fan(s) Liquid Cooling: Direct to Chip (D2C) Cold Plate
Power Supply	4x 2000W Redundant (2 + 2) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB SPI Flash EEPROM BIOS Features: Plug and Play (PnP) UEFI 2.8 USB Keyboard support ACPI 6.5 SMBIOS 3.7 or later
Management	Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); KVM with dedicated LAN ; IPMI 2.0; 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 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: 72.45 lbs (32.86 kg) Net Weight: 54.9 lbs (24.93 kg) Available Color: Silver
Operating Environment	RoHS Compliant Operating Temperature: 10°C ~ 35°C (50°F ~ 95°F) Non-operating Temperature: -40°C to 70°C (-40°F to 158°F) Operating Relative Humidity: 8% to 90% (non-condensing) Non-operating Relative Humidity: 5% to 95% (non-condensing)
Motherboard	Super H14DST-F
Chassis	**CSE-F214EC-000NP**