TECHNICAL DATASHEET

SUPERMICRO · MULTI-NODE & TWIN

Supermicro 2U FlexTwin Server AS-2126FT-HE-LCC

The Supermicro AS -2126FT-HE-LCC is a liquid-cooled 2U 4-node FlexTwin server with dual AMD EPYC 9005/9004 processors with up to 192 cores and up to 6TB DDR5 memory per node, as well as Direct-to-Chip cold plate liquid cooling — designed for rack-scale oil & gas, scientific research, HPC, and research lab deployments.

SKU AS-2126FT-HE-LCC | 2U | SP5 | Supermicro

FORM FACTOR	MAX POWER (BASE)	HEAT OUTPUT	PRICE
2U	349 W	1,191 BTU/h	On requ

ISO 9001 · ISO 14001 · ISO 27001

cisco · tp-link · Omada by tp-link

CONFIGURE & QUOTE ONLINE

serverinvest.com/product/as-2126ft-he-lcc

01 Product overview

The Supermicro AS-2126FT-HE-LCC is a 2U FlexTwin Server built on AMD EPYC 9005 with up to 6 TB of memory in 24 DIMM slots.

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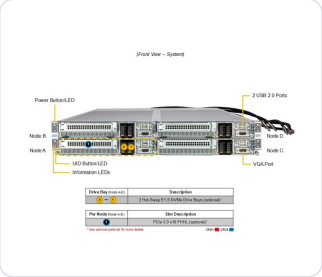
ServerInvest configures every AS -2126FT-HE-LCC to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

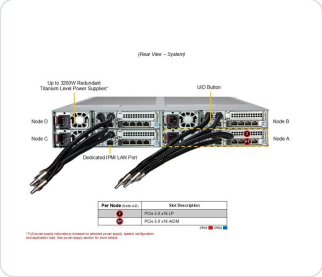
KEY SPECIFICATIONS

Form factor	2U
Processor	AMD EPYC 9005
Socket	SP5
Memory	24 DIMM slots, up to 6 TB
Memory type	DDR5-6400 ECC RDIMM
Drive bays	2 (2 NVMe)
Power supply	2× 2000 W
Typical power draw	450 W
Networking	Via AIOM
Dimensions (W×H×D)	437 × 89 mm

HIGHLIGHTS

- AMD EPYC 9005
- Up to 6 TB memory · 24 DIMM slots
- Total 2 bays 2 front hot-swap E1.S NVMe drive bays
- Power: 2x 2000W
- Networking: Via AIOM





02 Base configuration

Components included in the listed base price — every part can be changed in the online configurator

COMPONENT	DESCRIPTION	QTY
Base system	**Supermicro 2U FlexTwin Server AS-2126FT-HE-LCC**	1
Processor	AMD EPYC 9135 - 16 Cores, 3.65/4.30GHz, 64MB Cache (200 Watt)	1
Memory	16GB 6400MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

Price on request — contact us for a tailored quotation

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
91 W	**231 W**	**349 W**	**1,191 BTU/h**	**0.3 kW**	**17%**

Typical 231 W · max 349 W · single PSU rating 2000 W

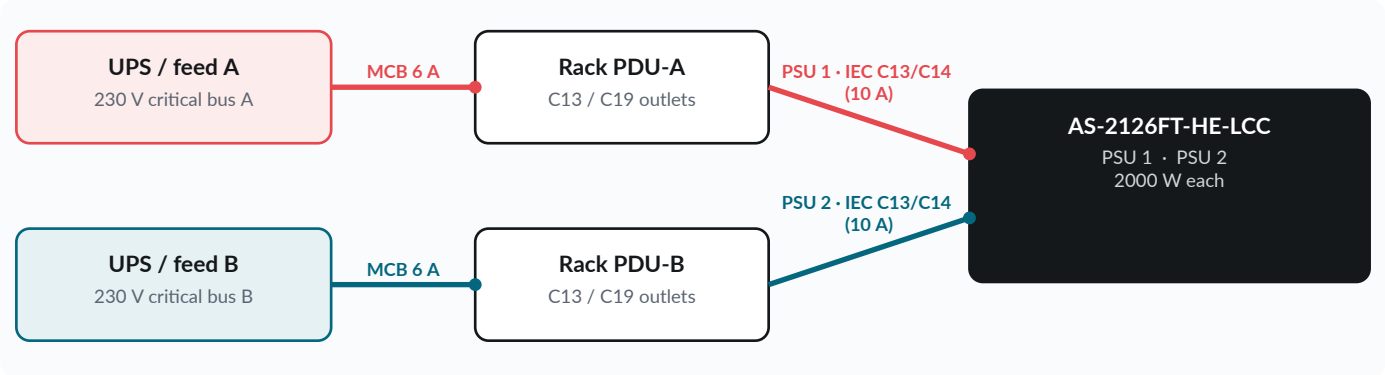
Annual IT energy (24/7)	1,656 kWh
Annual facility energy (PUE 1.5)	2,484 kWh
Annual energy cost	€331 IT · €497 incl. cooling (at 0.20 €/kWh)
CO_2 emissions / year	0.65 t (grid factor 0.26 kg/kWh)
Power supplies	2× 2000 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	50 W	77 W	**110 W**
CPU — AMD EPYC 9135 - 16 Cores	30 W	130 W	**200 W**
2× Memory 16 GB DIMM	6 W	10 W	**18 W**

DC loads converted to wall power at 94% PSU efficiency; typical load assumed 70% of the time. Engineering estimates — confirm with the manufacturer's power calculator for critical designs.

04 Power connection diagram

Dual-feed (A/B) connection for redundant power supplies



- Connect PSU 1 to PDU-A and PSU 2 to PDU-B (independent feeds) using IEC C13/C14 (10 A) power cords.
- Maximum current per feed: 1.6 A at 230 V — each feed must be able to carry the full load if the other fails.
- Recommended protection per PDU circuit: MCB 6 A, curve C; RCD according to local regulations.
- Heat to remove at full load: 349 W = 1,191 BTU/h (0.3 kW).

05 Full specifications

MOTHERBOARD	
	Super H14DST-F

PROCESSOR (PER NODE)	
CPU	Dual processor(s) AMD EPYC 9005/9004 Series Processors
Core Count	Up to 192C/384T; Up to 512MB Cache per CPU

Note	Supports up to 500W TDP CPUs (Liquid Cooled)

SYSTEM MEMORY (PER NODE)

Memory	Slot Count: 24 DIMM slots Max Memory (1DPC): Up to 6TB 6400MT/s ECC DDR5 RDIMM (AMD EPYC 9005 Series Processor) Max Memory (1DPC): Up to 6TB 4800MT/s ECC DDR5 RDIMM (AMD EPYC 9004 Series Processor) View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES (PER NODE)

Network Connectivity	Via AIOM View AIOM Options View AOC Options
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 (PER NODE)

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 2.0 ports (front)
Video	1 VGA port
TPM	1 TPM Onboard/port 80

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

Software	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!
Power configurations	ACPI/APM Power Management Power-on mode control for AC power loss recovery Power button override mechanism,

SECURITY

Hardware	Trusted Platform Module (TPM) 2.0 Silicon Root of Trust (RoT) – NIST 800-193 Compliant

Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown

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
Voltage	System temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support

CERTIFICATIONS

Operating Systems	Turin: Oracle Linux 9.4, RHEL 9.4, RHEL 10.0, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix

CHASSIS

Form Factor	2U Rackmount
Model	CSE-F214EC-000NP

DIMENSIONS AND WEIGHT

Height	3.46" (88 mm)
Width	17.67" (449 mm)
Depth	36.08" (916.6 mm)
Package	11.54" (H) x 27.6" (W) x 50.63" (D)
Weight	Gross Weight: 135.19 lbs (61.32 kg) Net Weight: 90.57 lbs (41.08 kg)
Available Color	Silver

FRONT PANEL

Buttons	Power On/Off button UID button
LED	HDD activity LED Network activity LEDs Power status LED Universal Information (UID) LED

EXPANSION SLOTS (PER NODE)

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 (*Requires additional parts, please see the optional parts list for details. For more details on PCIe slot configuration options, please refer to the system callout images above.) View AOC Options
M.2	2 M.2 NVMe slots (M-key 22110(default); optional configuration)

DRIVE BAYS / STORAGE (PER NODE)

Drive Bays Configuration	Option A: Total 2 bays 2 front hot-swap E1.S NVMe drive bays View NVMe Options
M.2	2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110; optional configuration) View M.2 Options

SYSTEM COOLING

Fans	Up to 16 counter-rotating 40x40x56mm Fan(s)
Air Shroud	4 Air Shrouds
Liquid Cooling	Direct to Chip (D2C) Cold Plate

POWER SUPPLY

2x 2000W
2x 2700W
2x 3200W
2x 2000W
2x 2000W Redundant (1 + 1) Titanium Level (96%) power supplies
Dimension (WxHxL)
73.5 x 40 x 185 mm

OPERATING ENVIRONMENT

RoHS	RoHS Compliant
Environmental Spec.	Operating Temperature: 10°C to 35°C (50°F to 95°F) Non-operating Temperature: -40°C to 60°C (-40°F to 140°F) Operating Relative Humidity: 8% to 90% (Non-Condensing) Non-operating Relative Humidity: 5% to 95% (Non-Condensing)

ENVIRONMENTAL / RECYCLING

Recycle	Return Server-End of Life Product

06 Built, tested & supported by ServerInvest

Engineered configuration
Every option validated for socket, memory channels, PCIe lanes, power and cooling.

48-hour burn-in
Assembled, firmware-updated and stress-tested before it leaves our workshop.

3-year warranty
Standard on every system, with on-site next-business-day upgrades available.

Rack-ready delivery
Rails, cable management and labelling included — delivered across Europe.

ISO 9001 · ISO 14001 · ISO 27001

Ready to order or need changes?

Configure this system online or talk to a solutions engineer — we reply within one business day.

office@serverinvest.com

Official manufacturer datasheet: serverinvest.com/product/as-2126ft-he-lcc/datasheet/manufacturer