TECHNICAL DATASHEET

SUPERMICRO · EDGE & EMBEDDED

Supermicro 2U IoT Server AS-2115HE-FTNR

2U Hyper-E with single AMD EPYC 9004/9005 series processor, 6 hot-swap 2.5" drive bays and up to 4 PCIe 5.0 x16 slots

SKU AS-2115HE-FTNR | 2U | SP5 | Supermicro

FORM FACTOR	MAX POWER (BASE)	HEAT OUTPUT	PRICE
2U	349 W	1,191 BTU/h	from €7,240

ISO 9001 · ISO 14001 · ISO 27001 · cisco · tp-link · Omada by tp-link

CONFIGURE & QUOTE ONLINE
serverinvest.com/product/as-2115he-ftnr

01 Product overview

The Supermicro AS-2115HE-FTNR is a 2U IoT Server built on AMD EPYC 9005 with up to 6 TB of memory in 24 DIMM slots.

2U Hyper-E with single AMD EPYC 9004/9005 series processor, 6 hot-swap 2.5" drive bays and up to 4 PCIe 5.0 x16 slots.

The chassis accepts up to 3 GPU accelerators for AI, rendering and HPC workloads.

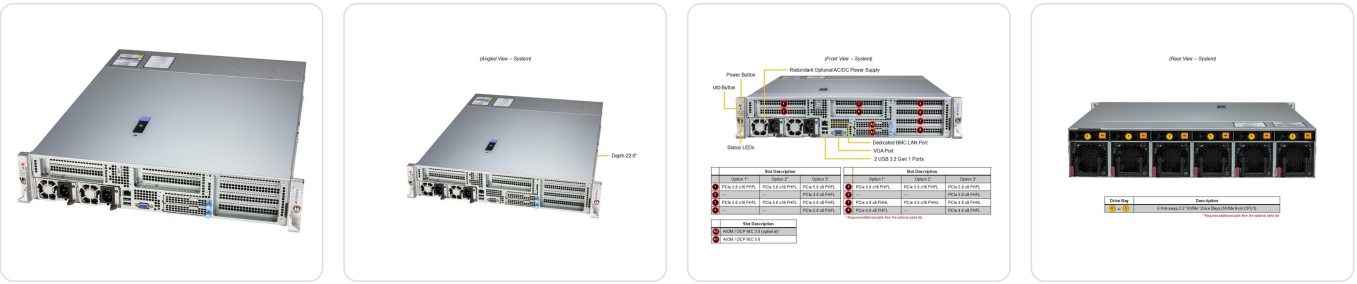
ServerInvest configures every AS -2115HE-FTNR to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- AMD EPYC 9005
- Up to 6 TB memory · 24 DIMM slots
- Total 6 bays 6 rear hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays
- Up to 3 GPUs
- Power: 2x 2000W
- Networking: Via AIOM

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	**6 (6 NVMe)**
GPU	**Up to 3 GPUs**
Power supply	**2× 2000 W**
Typical power draw	**1800 W**
Networking	**Via AIOM**
Dimensions (W×H×D)	**437 × 89 mm**



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 IoT Server AS-2115HE-FTNR**	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

Base configuration from **€7,240** excl. VAT

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

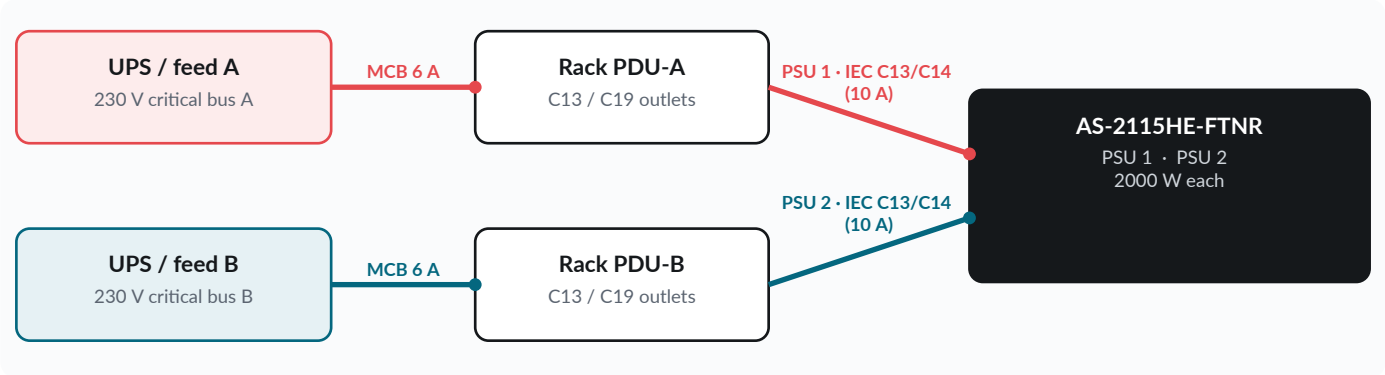
Annual IT energy (24/7)	1,656 kWh
Annual facility energy (PUE 1.5)	2,484 kWh
Annual energy cost	€331 IT · €497 incl. cooling (at 0.20 €/kWh)
CO_2 emissions / year	0.65 t (grid factor 0.26 kg/kWh)
Power supplies	2× 2000 W redundant (N+1)

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 H13SSH-E

PROCESSOR	
CPU	Single processor(s) AMD EPYC 9005/9004 Series Processors
Core Count	Up to 160C/320T

Note	Supports up to 400W TDP CPUs * *Air Cooled CPUs with TDP over 400W only supported under specific conditions. Contact a Supermicro representative for details.

GPU

Max GPU Count	Up to 3 double-width or 4 single-width GPUs
CPU-GPU Interconnect	PCIe Gen5 x16
GPU-GPU Interconnect	PCIe

SYSTEM MEMORY

Memory	Slot Count: 24 DIMM slots/12 Channels Max Memory (1DPC): Up to 3TB 5200MT/s ECC DDR5 RDIMM (AMD EPYC 9005 Series Processor) Max Memory (2DPC): Up to 6TB 4400MT/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) Max Memory (2DPC): Up to 6TB 4000MT/s ECC DDR5 RDIMM (AMD EPYC 9004 Series Processor)
Memory Voltage	1.1V

ON-BOARD DEVICES

Network Connectivity	Via AIOM View AIOM Options View AOC Options

INPUT / OUTPUT

LAN	1 RJ45 1 GbE Dedicated BMC LAN port
USB	2 USB 3.0 Type-A ports (Front)
Video	1 VGA port
TPM	1 TPM header

SYSTEM BIOS

BIOS Type	AMI 32MB SPI Flash EEPROM
BIOS Features	ACPI 6.4 Plug and Play (PnP) SMBIOS 3.5 or later UEFI 2.8 USB Keyboard support

MANAGEMENT

Software	SuperCloud Composer (SCC) Supermicro Server Manager (SSM) Supermicro Update Manager (SUM) Supermicro SuperDoctor 5 (SD5) Super Diagnostics Offline (SDO) Supermicro Thin-Agent Service (TAS) OOB Management Package (SFT-OOB-LIC) SuperServer Automation Assistant (SAA) New!

Power configurations	ACPI 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

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

CHASSIS

Form Factor	2U Rackmount
Model	CSE-HE211-R000NFP-A

DIMENSIONS AND WEIGHT

Height	3.5" (88.9 mm)
Width	17.2" (436.88 mm)
Depth	22.6" (574 mm)
Package	9.7" (H) x 23.5" (W) x 36.9" (D)
Weight	Gross Weight: 47.4 lbs (21.5 kg) Net Weight: 34.4 lbs (15.6 kg)
Available Color	Silver

FRONT PANEL

Buttons	Power On/Off UID button
LED	HDD activity LED LAN1 activity LAN2 activity Power Fail Power status LED System information

EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Option A* 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) 3 PCIe 5.0 x16 (in x16) FHFL slots 2 PCIe 4.0 x8 (in x16) FHFL slots Option B* 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) 3 PCIe 5.0 x16 (in x16) FHFL slots 1 PCIe 4.0 x16 (in x16) FHFL slot Option C 2 PCIe 5.0 x16 (in x16) AIOM slots (OCP 3.0 compatible) 5 PCIe 5.0 x8 (in x16) FHFL slots 3 PCIe 4.0 x8 (in x16) FHFL slots (*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	1 M.2 PCIe 3.0 x4 slot (M-key 22110(default)/2280) 1 M.2 PCIe 3.0 x2 slot (M-key 22110(default)/2280)
PCI	8 PCI 5V 32-bit slots

DRIVE BAYS / STORAGE

Drive Bays Configuration	Default: Total 6 bays 6 rear hot-swap 2.5" PCIe 5.0 x4 NVMe drive bays View NVMe Options
M.2	1 M.2 PCIe 3.0 x4 NVMe slot (M-key 22110(default)/2280) 1 M.2 PCIe 3.0 x2 NVMe slot (M-key 22110(default)/2280) View M.2 Options

SYSTEM COOLING

Fans	Up to 6x 6cm heavy duty fans with optimal fan speed control
Air Shroud	1 Air Shroud

POWER SUPPLY

	2x 2000W 2x 2000W Redundant (1 + 1) Titanium (certification pending) Level (96%) Hot-plug power supplies Dimension (WxHxL) 73.5 x 40 x 203 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 70°C (-40°F to 158°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.

NATCERT ISO 9001 · NATCERT ISO 14001 · NATCERT ISO 27001 · cisco · tp-link · Omada by tp-link

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-2115he-ftnr/datasheet/manufacturer