

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro IoT SuperServer SYS-111AD-HN2

Intel Single Socket LGA-1700 support 12th & 13th Gen, 200W Low Noise AC-DC
PWS, 1U edge platform

SKU SYS-111AD-HN2

1U

Supermicro



FORM FACTOR

1U

MAX POWER (BASE)

306 W

HEAT OUTPUT

1,044 BTU/h

PRICE

from €2,660

CONFIGURE & QUOTE ONLINE

serverinvest.com/product/sys-111ad-hn2

01 Product overview

The Supermicro SYS-111AD-HN2 is a 1U IoT Server built on Intel Core with up to 128 GB of memory in 4 DIMM slots.

Intel Single Socket LGA-1700 support 12th & 13th Gen, 200W Low Noise AC-DC PWS, 1U edge platform.

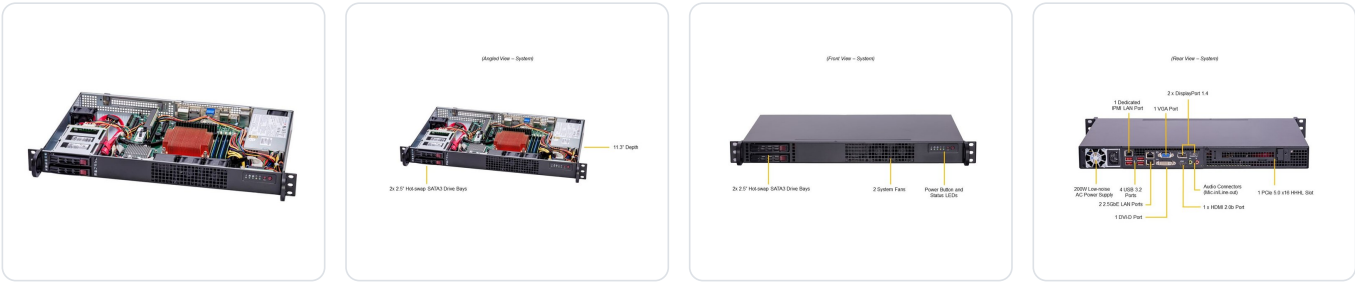
ServerInvest configures every Gold Series SYS-111AD-HN2 to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Intel Core
- Up to 128 GB memory · 4 DIMM slots
- Total 2 bays 2 front hot-swap 2.5" SATA drive bays
- Power: 1x 200W
- Networking: 2 RJ45 2.5GbE with Intel I225-LM

KEY SPECIFICATIONS

Form factor	1U
Processor	Intel Core
Memory	4 DIMM slots, up to 128 GB
Drive bays	2
Power supply	1× 200 W
Typical power draw	490 W
Networking	2 RJ45 2.5GbE with Intel I225-LM
Dimensions (W×H×D)	437 × 44 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 IoT SuperServer SYS-111AD-HN2	1
Memory	16GB 5600MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

Base configuration from

€2,660
excl. VAT

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
73 W	190 W	306 W	1,044 BTU/h	0.3 kW	153%

Typical 190 W · max 306 W · single PSU rating 200 W

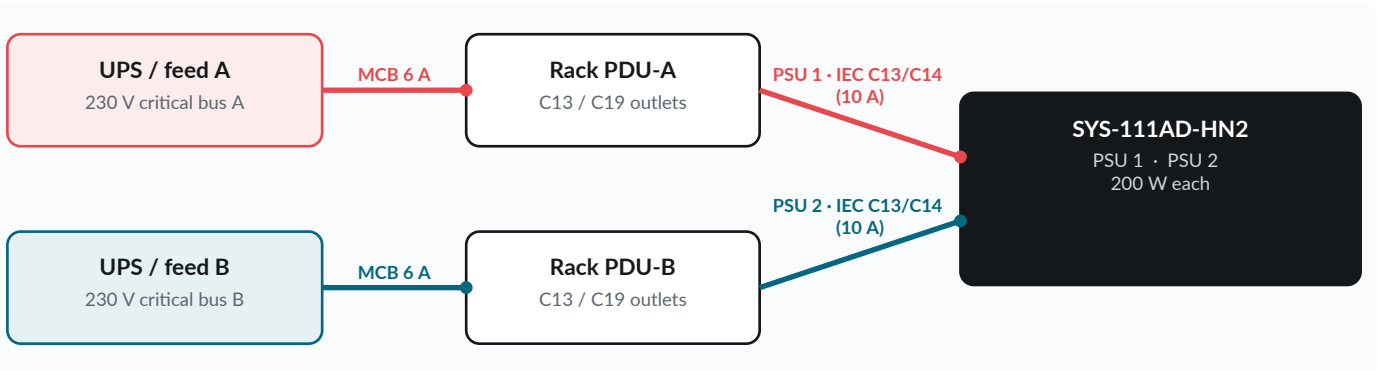
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	1× 200 W

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 W
2× Memory 16 GB DIMM	6 W	10 W	18 W
CPU (base configuration)	25 W	110 W	185 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: 1.4 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: 306 W = 1,044 BTU/h (0.3 kW).

05 Full specifications

MOTHERBOARD	
	Super X13SAZ-F
PROCESSOR	
CPU	Single L0 (LGA-1700) Intel Core 3/5/7 (Series 2) and 14th/13th/12th Gen Core i3/i5/i7/i9 Processors
Core Count	Up to 12C/20T

Note Supports up to 80W TDP CPUs (Air Cooled)

SYSTEM MEMORY

Memory	Slot Count: 4 DIMM slots Max Memory (2DPC): Up to 128GB 4400MT/s ECC/non-ECC DDR5 UDIMM View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES

SATA	SATA (6Gbps)
Network Connectivity	2 RJ45 2.5GbE with Intel I225-LM View AOC Options

INPUT / OUTPUT

LAN	1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 2.5 GbE LAN ports
USB	4 USB 3.2 Gen2 Type-A ports (Rear)
Video	1 VGA port 1 DVI-D port 2 DisplayPort 1.4 ports 1 port(s) supporting 4K@60Hz as specified in HDMI 2.0b
Audio	Line Out Mic in

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) SuperServer Automation Assistant (SAA) New!
Power configurations	Power-on mode for AC power recovery ACPI Power Management

SECURITY

Hardware	Trusted Platform Module (TPM) 2.0
Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates System Lockdown

PC HEALTH MONITORING

Temperature	Platform Environment Control Interface (PECI) 3.0 support SuperDoctor 5 System resource alert via SuperDoctor5
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CERTIFICATIONS

Operating Systems	RHEL 9.0, Windows Server 2022 View all OS Compatibility and Certification Matrix
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CHASSIS

Form Factor	1U Rackmount
Model	CSE-510FT-203B

DIMENSIONS AND WEIGHT

Height	1.7" (43 mm)
Width	17.2" (437 mm)
Depth	11.3" (287 mm)
Package	6.1" (H) x 25.4" (W) x 19.8" (D)
Weight	Gross Weight: 14.1 lbs (6.4 kg) Net Weight: 10 lbs (4.54 kg)
Available Color	Black

EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Default 1 PCIe 5.0 x16 HHHL slot View AOC Options
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DRIVE BAYS / STORAGE

Drive Bays Configuration	Default: Total 2 bays 2 front hot-swap 2.5" SATA drive bays
M.2	1 M.2 NVMe slot (M-key 2280/22110) View M.2 Options

SYSTEM COOLING

Fans	Up to 4x 4-PIN PWM 40x28mm Fan(s)
Air Shroud	1 Air Shroud

POWER SUPPLY

1x 200W
1x 200W Gold Level (91%) power supply
Dimension (WxHxL)
76 x 40.3 x 192 mm

OPERATING ENVIRONMENT

Environmental Spec.	Operating Temperature: 0°C to 40°C (32°F to 104°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)
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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.



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/sys-111ad-hn2/datasheet/manufacture

