

TECHNICAL DATASHEET

SUPERMICRO · RACKMOUNT SERVERS

Supermicro IOT SuperServer SYS-111E-FDWTR

1U Short-depth front I/O System with 2x 10G ports, 2x 2.5" drive bays and DC redundant PSU

SKU SYS-111E-FDWTR

1U

LGA4677

Supermicro



FORM FACTOR

1U

MAX POWER (BASE)

243 W

HEAT OUTPUT

829 BTU/h

PRICE

from €3,800**CONFIGURE & QUOTE ONLINE**serverinvest.com/product/sys-111e-fdwtr

01 Product overview

The Supermicro SYS-111E-FDWTR is a 1U IoT Server built on Intel Xeon Scalable 4th/5th Gen with up to 2 TB of memory in 8 DIMM slots.

1U Short-depth front I/O System with 2x 10G ports, 2x 2.5" drive bays and DC redundant PSU.

The chassis accepts up to 2 GPU accelerators for AI, rendering and HPC workloads.

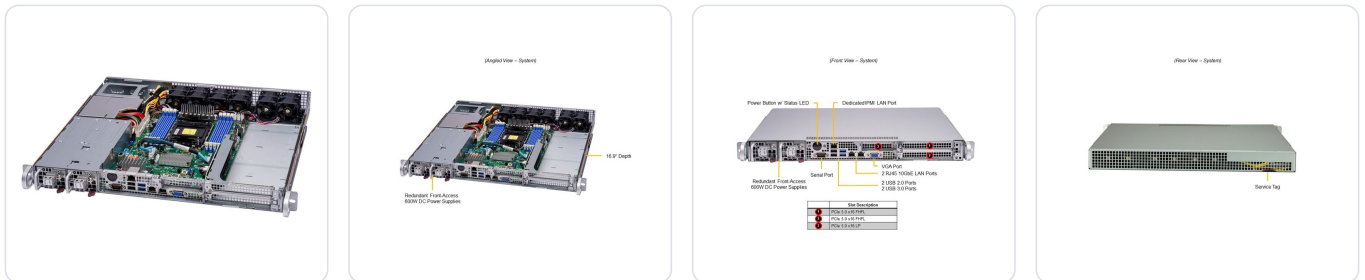
ServerInvest configures every SYS-111E-FDWTR to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Intel Xeon Scalable 4th/5th Gen
- Up to 2 TB memory · 8 DIMM slots
- Total 2 bays 2 internal fixed 2.5" SATA drive bays
- Up to 2 GPUs
- Power: 2x 600W
- Networking: 2 RJ45 10GbE

KEY SPECIFICATIONS

Form factor	1U
Processor	Intel Xeon Scalable 4th/5th Gen
Socket	LGA4677
Memory	8 DIMM slots, up to 2 TB
Memory type	DDR5-5600 ECC RDIMM
GPU	Up to 2 GPUs
Power supply	2x 600 W
Typical power draw	490 W
Networking	2 RJ45 10GbE
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-111E-FDWTR	1
Processor	Intel Xeon Bronze 3408U Processor 8 Cores (22.5M Cache, 1.80/1.90 GHz) 125W	1
Memory	16GB 5600MT/s DDR5 ECC Registered DIMM Module	2
Warranty & support	3-year return-to-base warranty (included)	1

Base configuration from

€3,800
excl. VAT

03 Power & thermal

Calculated for the base configuration

IDLE	TYPICAL	MAXIMUM	HEAT (MAX)	COOLING	PSU LOAD
67 W	160 W	243 W	829 BTU/h	0.2 kW	41%

Typical 160 W · max 243 W · single PSU rating 600 W

Annual IT energy (24/7)	1,157 kWh
Annual facility energy (PUE 1.5)	1,736 kWh
Annual energy cost	€231 IT · €347 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.45 t (grid factor 0.26 kg/kWh)
Power supplies	2× 600 W redundant (N+1)

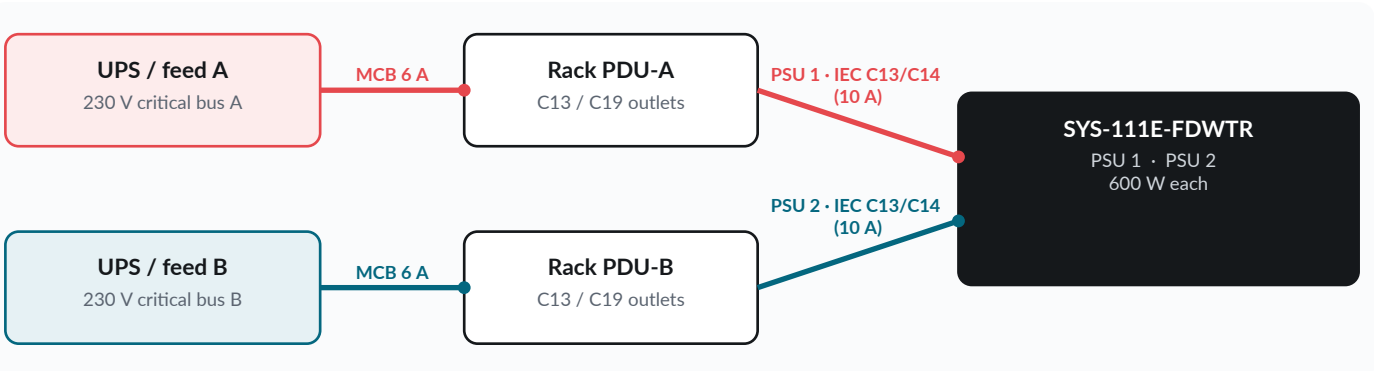
POWER BY COMPONENT

	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 W
CPU — Intel Xeon Bronze 3408U Processor 8 Cores	19 W	81 W	125 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: 1.1 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: 243 W = 829 BTU/h (0.2 kW).

05 Full specifications

MOTHERBOARD	
	Super X13SEW-TF
PROCESSOR	
CPU	Single Socket E (LGA-4677) 5th Gen Intel Xeon / 4th Gen Intel Xeon Scalable processors
Core Count	Up to 32C/64T; Up to 60MB Cache

Note

Supports 85W - 350W TDP CPUs (Air Cooled)*
 *Air Cooled CPUs with TDP over 205W only supported under specific conditions. Contact a Supermicro representative for details.

GPU

Max GPU Count	Up to 2 single-width GPUs
Supported GPU	NVIDIA PCIe: L4 View GPU Options
CPU-GPU Interconnect	PCIe Gen5 x16
GPU-GPU Interconnect	PCIe

SYSTEM MEMORY

Memory	Slot Count: 8 DIMM slots Max Memory (1DPC): Up to 2TB 5600MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES

SATA	SATA (6Gbps) ; RAID 0/1 support
Chipset	Intel C741
Network Connectivity	2 RJ45 10GbE View AOC Options

INPUT / OUTPUT

LAN	1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GbE LAN ports (Intel X550-AT2)
USB	2 USB 2.0 Type-A ports 2 USB 3.2 Gen1 Type-A ports
Video	1 VGA port

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 Silicon Root of Trust (RoT) – NIST 800-193 Compliant
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Features	Cryptographically Signed Firmware Secure Boot Secure Firmware Updates Automatic Firmware Recovery Supply Chain Security: Remote Attestation Runtime BMC Protections System Lockdown
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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	CPU thermal trip support, PEPI Monitoring for CPU and chassis environment

CERTIFICATIONS

Operating Systems	Oracle Linux 9.2, RHEL 9.2, Windows Server 2022 View all OS Compatibility and Certification Matrix
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CHASSIS

Form Factor	1U
Model	CSE-515B-R601W

DIMENSIONS AND WEIGHT

Height	1.7" (43 mm)
Width	17.2" (437 mm)
Depth	16.9" (429 mm)
Package	8" (H) x 27" (W) x 24" (D)
Weight	Gross Weight: 14.99 lbs (6.8 kg) Net Weight: 10.01 lbs (4.54 kg)
Available Color	No Paint

FRONT PANEL

Buttons	Power On/Off button
LED	Fan Fail/System Over Heat LED Power LED

EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Default 1 PCIe 5.0 x16 LP slot 2 PCIe 5.0 x16 FHFL slots View AOC Options
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DRIVE BAYS / STORAGE

Drive Bays Configuration	Default: Total 2 bays 2 internal fixed 2.5" SATA drive bays View Drive Options
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M.2	1 M.2 PCIe 3.0 x2 NVMe slot (M-key 2280/22110) View M.2 Options
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SYSTEM COOLING

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

POWER SUPPLY

2x 600W
2x 600W Redundant (1 + 1) Typical 90%+ Level (96%) power supplies
Dimension (WxHxL)
54.5 x 40 x 220 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-111e-fdwtr/datasheet/manufacture

