

TECHNICAL DATASHEET

SUPERMICRO · EDGE & EMBEDDED

Supermicro 1U IoT Server AS-1115S-FDWTRT

1U Short-depth front I/O System with AMD EPYC 8005/8004 Series Processor, 2x 10G ports, 2x 2.5" drive bays and DC redundant PSU

SKU AS-1115S-FDWTRT

1U

SP6

Supermicro



FORM FACTOR

1U

MAX POWER (BASE)

306 W

HEAT OUTPUT

1,044 BTU/h

PRICE

On request

REQUEST A QUOTATION ONLINE

serverinvest.com/product/as-1115s-fdwtrt

01 Product overview

The Supermicro AS-1115S-FDWTRT is a 1U IoT Server built on AMD EPYC 8004 with up to 768 GB of memory in 6 DIMM slots.

1U Short-depth front I/O System with AMD EPYC 8005/8004 Series Processor, 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.

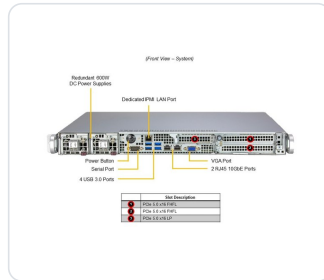
ServerInvest configures every AS -1115S-FDWTRT to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- AMD EPYC 8004
- Up to 768 GB memory · 6 DIMM slots
- Total 2 bays 2 internal fixed 2.5" NVMe/SAS/SATA drive bays
- Up to 2 GPUs
- Power: 2x 600W
- Networking: 2 RJ45 10GBASE-T with Broadcom BCM57416

KEY SPECIFICATIONS

Form factor	1U
Processor	AMD EPYC 8004
Socket	SP6
Memory	6 DIMM slots, up to 768 GB
Drive bays	2 (2 NVMe)
GPU	Up to 2 GPUs
Power supply	2x 600 W
Typical power draw	1350 W
Networking	2 RJ45 10GBASE-T with Broadcom BCM57416
Dimensions (W×H×D)	437 × 44 mm



02 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	51%

Typical 190 W · max 306 W · single PSU rating 600 W

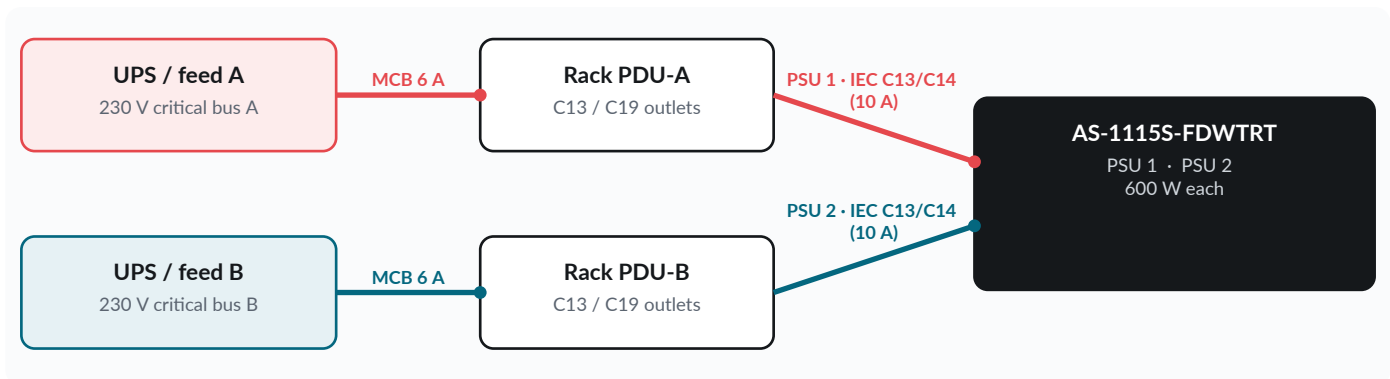
Annual IT energy (24/7)	1,357 kWh
Annual facility energy (PUE 1.5)	2,036 kWh
Annual energy cost	€271 IT · €407 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.53 t (grid factor 0.26 kg/kWh)
Power supplies	2x 600 W redundant (N+1)

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 W
CPU (base configuration)	25 W	110 W	185 W
2x Memory (base configuration)	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.

03 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).

04 Full specifications

MOTHERBOARD

Super H13SVW-NT

PROCESSOR

CPU	Single processor(s) AMD EPYC 8005/8004 Series Processor
Core Count	Up to 84C/168T
Note	Supports up to 225W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 2 single-width GPUs
Supported GPU	NVIDIA PCIe: A2, L4 View GPU Options

SYSTEM MEMORY

Memory	Slot Count: 6 DIMM slots Max Memory (2DPC): Up to 768GB 6400MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES

SATA	SATA (6Gbps)
NVMe	NVMe; (Optional)
Network Connectivity	2 RJ45 10GBASE-T with Broadcom BCM57416 View AOC Options

INPUT / OUTPUT

LAN	1 RJ45 1 GbE Dedicated BMC LAN port 2 RJ45 10 GbE LAN ports
USB	4 ports
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) SuperServer Automation Assistant (SAA) New!
Power configurations	1U 600W Redundant DC48V input w/PMBus power supply

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 thermal trip, 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 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

CERTIFICATIONS

Operating Systems	Siena: Oracle Linux 9.0, RHEL 9.2, SLES 15 SP4, SLES 15 SP5, Windows Server 2022, Windows Server 2025 View all OS Compatibility and Certification Matrix
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CHASSIS

Form Factor	1U Rackmount
Model	CSE-515B-R000WNP

DIMENSIONS AND WEIGHT

Height	1.7" (44.5 mm)
Width	17.2" (436.88 mm)
Depth	16.9" (429.3 mm)
Package	8" (H) x 27" (W) x 24" (D)
Weight	Gross Weight: 15 lbs (6.8 kg) Net Weight: 10 lbs (4.54 kg)
Available Color	Silver

FRONT PANEL

Buttons	Power On/Off
LED	LAN1 activity LAN2 activity Power status

EXPANSION SLOTS

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

Drive Bays Configuration	Default: Total 2 bays 2 internal fixed 2.5" NVMe/SAS/SATA drive bays
M.2	2 M.2 PCIe 3.0 x4 NVMe slots (M-key 2280/22110) View M.2 Options

SYSTEM COOLING

Fans	Up to 6 Heavy duty counter-rotating 4cm Fan(s)
Air Shroud	1 Air Shroud

POWER SUPPLY

2x 600W
2x 600W Redundant Typical 90%+ Level (96%) power supplies
Dimension (WxHxL)
54.5 x 40 x 220 mm

OPERATING ENVIRONMENT

RoHS	RoHS Compliant
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)

05 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.



Interested in this solution?

Request a quotation online or talk to a solutions engineer — we reply within one business day.
office@serverinvest.com

Official manufacturer datasheet: serverinvest.com/product/as-1115s-fdwtrt/datasheet/manufacture

