

TECHNICAL DATASHEET

SUPERMICRO · TOWER SERVERS & WORKSTATIONS

Supermicro Mid-Tower SuperWorkstation Server SYS-532AW-TC

High-performance mid-tower UP workstation for AI and 3D/simulation workloads

SKU SYS-532AW-TC

Tower

LGA4710

Supermicro



FORM FACTOR

Tower

MAX POWER (BASE)

269 W

HEAT OUTPUT

918 BTU/h

PRICE

On request**CONFIGURE & QUOTE ONLINE**serverinvest.com/product/sys-532aw-tc

01 **Product overview**

The Supermicro SYS-532AW-TC is a Mid-Tower SuperWorkstation Server built on Intel Xeon 6 with up to 1 TB of memory in 8 DIMM slots.

High-performance mid-tower UP workstation for AI and 3D/simulation workloads.

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

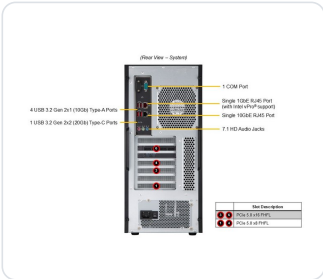
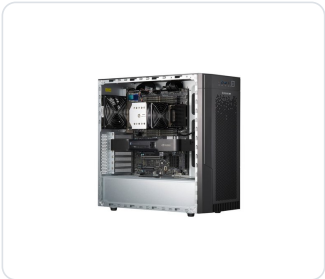
ServerInvest configures every SYS-532AW-TC to order, updates BIOS and BMC firmware, installs your operating system on request and runs a 48-hour burn-in test before delivery. Every system includes a 3-year warranty.

HIGHLIGHTS

- Intel Xeon 6
- Up to 1 TB memory · 8 DIMM slots
- Total 8 bays 2 internal fixed 3.5"/2.5" SATA drive bays
- Up to 2 GPUs
- Power: 1x 1300W
- Networking: 1 RJ45 10GbE with Marvell AQC113

KEY SPECIFICATIONS

Form factor	Tower
Processor	Intel Xeon 6
Socket	LGA4710
Memory	8 DIMM slots, up to 1 TB
Memory type	DDR5-6400 ECC RDIMM
Drive bays	28 (28 NVMe)
GPU	Up to 2 GPUs
Power supply	1× 1300 W
Typical power draw	1350 W
Networking	1 RJ45 10GbE with Marvell AQC113



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 Mid-Tower SuperWorkstation Server SYS-532AW-TC	1
Processor	Intel Xeon 6505P Processor 12 Cores (48M Cache, 2.20Ghz) 150W	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
71 W	178 W	269 W	918 BTU/h	0.3 kW	21%

Typical 178 W · max 269 W · single PSU rating 1300 W

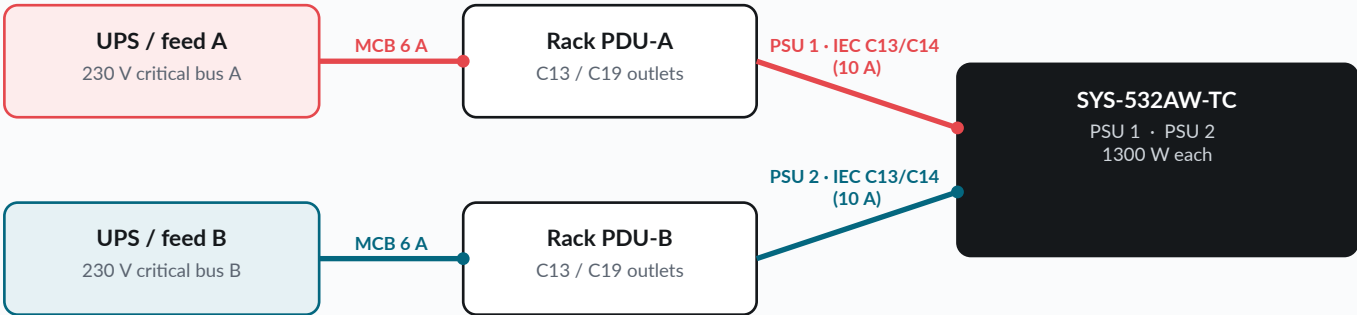
Annual IT energy (24/7)	1,278 kWh
Annual facility energy (PUE 1.5)	1,917 kWh
Annual energy cost	€256 IT · €383 incl. cooling (at 0.20 €/kWh)
CO ₂ emissions / year	0.50 t (grid factor 0.26 kg/kWh)
Power supplies	1× 1300 W

POWER BY COMPONENT	IDLE	TYPICAL	MAX
Chassis, motherboard, fans, BMC	38 W	59 W	85 W
CPU — Intel Xeon 6505P Processor 12 Cores	23 W	98 W	150 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: 1.2 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: 269 W = 918 BTU/h (0.3 kW).

05 Full specifications

MOTHERBOARD	
	Super X14SRA-T
PROCESSOR	
CPU	Single E2 (LGA 4710-2) Intel Xeon 600 Processor for Workstation
Core Count	Up to 86C/172T; Up to 336MB Cache

Note Supports up to 350W TDP CPUs (Air Cooled)

GPU

Max GPU Count	Up to 2 double-width GPUs
Supported GPU	NVIDIA PCIe: NVIDIA RTX PRO 4000 Blackwell, NVIDIA RTX PRO 4500 Blackwell, NVIDIA RTX PRO 5000 Blackwell, NVIDIA RTX PRO 6000 Blackwell Max-Q Workstation Edition, NVIDIA RTX PRO 6000 Blackwell Workstation Edition Intel: Arc Pro B70 Graphics View GPU Options

SYSTEM MEMORY

Memory	Slot Count: 8 DIMM slots Max Memory (2DPC): Up to 1TB 5200MT/s ECC DDR5 RDIMM View Memory Options
Memory Voltage	1.1V

ON-BOARD DEVICES

SATA	SATA (6Gbps) via Intel W890; RAID 0/1/5/10 support
Chipset	intel W890
Network Connectivity	1 RJ45 10GbE with Marvell AQC113 1 RJ45 1GbE with Intel I219-LM View AOC Options

INPUT / OUTPUT

USB	2 USB 3.2 Gen1 Type-A ports (front) 4 USB 3.2 Gen2 Type-A ports (Rear) 1 USB 3.2 Gen2 Type-C port (Rear) 1 USB 3.2 Gen2 Type-C port (Front)
Serial	1 COM port (rear)
Audio	5.1 HD Audio

SYSTEM BIOS

BIOS Type	AMI 256MB SPI Flash
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MANAGEMENT

Software	Supermicro SuperDoctor 5 (SD5) Super Diagnostics Offline (SDO) SuperServer Automation Assistant (SAA) New!
Power configurations	Wake-on-LAN ACPI 6.5 Power Management

SECURITY

Hardware	Trusted Platform Module (TPM) 2.0
Features	Automatic Firmware Recovery Cryptographically Signed Firmware Secure Boot Secure Firmware Updates

PC HEALTH MONITORING

Voltage	Voltage, VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby
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CERTIFICATIONS

Operating Systems	RHEL 10.0 View all OS Compatibility and Certification Matrix
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CHASSIS

Form Factor	Mid-Tower
Model	CSE-GS3A-000NBP

DIMENSIONS AND WEIGHT

Height	17.72" (450 mm)
Width	8.07" (205 mm)
Depth	18.5" (470 mm)
Package	24.29" (H) x 12.8" (W) x 23.23" (D)
Weight	Gross Weight: 19.2 lbs (8.7 kg) Net Weight: 14.1 lbs (6.4 kg)
Available Color	Black

FRONT PANEL

Buttons	Power On/Off
LED	HDD activity Power status LED
Port	Audio Jack-Combo microphone input / audio output port USB Type-A Ports-USB 3.2 Gen 1X1 ports (5G) USB Type-C-USB 3.2 Gen 2X2 port (20G)

EXPANSION SLOTS

PCI-Express (PCIe) Configuration	Default 2 PCIe 5.0 x8 (in x8) FHFL slots 2 PCIe 5.0 x16 (in x16) FHFL slots View AOC Options
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DRIVE BAYS / STORAGE

Drive Bays Configuration	Default: Total 8 bays 2 internal fixed 3.5"/2.5" SATA drive bays 6 internal fixed 2.5" SATA drive bays Option A: Total 8 bays 2 internal fixed 3.5" SATA* drive bays 4 internal fixed 2.5" SATA* drive bays 2 internal fixed 2.5" PCIe 4.0 NVMe* drive bays (*NVMe/SATA support may require additional storage controller and/or cables, please see the optional parts list for details)
M.2	2 M.2 PCIe 5.0 x4 NVMe slots (M-key 22110(default)/2280; VROC required for RAID) View M.2 Options

SYSTEM COOLING

Fans	Up to 4x 120mm Fan(s) Up to 1x 120mm Fan(s) Up to 1x 120mm Fan(s)
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POWER SUPPLY

1x 1300W
1x 2000W
1x 1000W
1x 1300W
1x 1300W Platinum Level (92%) power supply
Dimension (WxHxL)
86 x 160 x 150 mm

OPERATING ENVIRONMENT

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)
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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-532aw-tc/datasheet/manufacturer

