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Supermicro 1U WIO SuperServer (SYS-512B-WR)

- **Key Features/Applications:** Enterprise Applications, General Purpose Computing, Cloud Computing, Web/Hosting Applications, Network Appliance, Database/Storage, Storage Headnode, Entry GPU Server
- **CPU:** Single Intel® Xeon® 6700/6500 Series Processor
- **Chassis:** 1U / 1 Node
- **Drive:** 4 3.5" Hot-Swap SATA/NVMe/SAS Drive Bays
- **RAM:** 8 DDR5 DIMM Slots
- **Network Ports:** 2 1GbE LAN Ports
- **Ships Within 3-5 Business Days**

IN STOCK



Up to 4 Hot-swap 3.5" PCIe 5.0 NVMe/SAS3/SATA3 Drive Bays



*Actual product may vary slightly from photo shown

Product SKUs

SuperServer SYS-512B-WR

Processor

CPU	- Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores
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Core Count	- P-cores: Up to 86C/172T; Up to 336MB Cache - E-cores: Up to 144C/144T; Up to 108MB Cache
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Note	Supports up to 350W TDP CPUs (Air Cooled)
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GPU

Max GPU Count	Up to 1 double-width or 2 single-width GPUs
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Supported GPU	NVIDIA PCIe: RTX 2000 Ada, RTX 4000 Ada Generation
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CPU-GPU Interconnect	PCIe 5.0 x16 CPU-to-GPU Interconnect
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System Memory

Memory	- Slot Count: 8 DIMM slots/8 Channels - Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
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Memory Voltage	1.1V
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On-Board Devices

SATA	SATA (6Gbps)
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NVMe	NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)
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Chipset	System on Chip
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Network Connectivity	2 RJ45 1GbE with Intel® I210
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Input / Output

LAN	2 RJ45 1 GbE LAN ports 1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1)
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USB	2 USB 3.2 Gen1 Type-A ports(rear) 2 USB 3.2 Gen1 ports(Header)
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Video	1 VGA port
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Serial	1 COM port(Rear) 1 COM port(Header)
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TPM	1 TPM header
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System BIOS

BIOS Type	AMI 64MB SPI Flash EEPROM
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Management

Chassis

Form Factor	1U
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Model	CSE-815BTS-R000WNP
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Dimensions and Weight

Height	1.7" (43 mm)
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Width	17.2" (437 mm)
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Depth	25.6" (650 mm)
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Package	8.5" (H) x 23.5" (W) x 33.7" (D)
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Weight	- Gross Weight: 34.5 lbs (15.46 kg) - Net Weight: 21.5 lbs (9.75 kg)
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Available Color	Black
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Front Panel

LED	- Fan Fail/System Over Heat LED - HDD activity LED - Network Activity LEDs - Power status LED - Unit Identification (UID) LED
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Buttons	- Power On/Off button - System Reset button - Unit Identification (UID) button
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Drive Bays / Storage

Drive Bays Configuration	- Default: Total 4 bays 4 front hot-swap 3.5" SAS*/SATA drive bays - Option A: Total 4 bays 4 front hot-swap 3.5"/2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA drive bays (*NVMe/SAS support may require additional storage controller and/or cables, please see the optional parts list for details)
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M.2	2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110; VROC required for RAID)
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Peripheral Bays	2 slim peripheral bays
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System Cooling

Fans	1 AOC cooling Fan(s) (optional) 5 middle cooling PWM 40x40x56mm Fan(s)
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Air Shroud	1 CPU Air Shroud
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Power Supply

QtyWithPsu	2x 860W
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Description	2x 860W Redundant (1 + 1) Titanium Level (96%) power supplies
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Dimension (WxHxL)	54.5 x 40.25 x 322 mm
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Software	• SuperCloud Composer® • Supermicro Server Manager (SSM) • Super Diagnostics Offline (SDO) • Supermicro Thin-Agent Service (TAS) • SuperServer Automation Assistant (SAA) New!	Input	• 800W: 100-127Vac / 50-60Hz • 860W: 200-240Vac / 50-60Hz • 860W: 240Vdc / 50-60Hz
Power configurations	• ACPI/APM Power Management	+12V	• Max: 66.67A / Min: 0A (100Vac-127Vac) • Max: 71.67A / Min: 0A (200Vac-240Vac) • Max: 71.67A / Min: 0A (Vdc-240Vdc)
Health Monitoring		5V SB	• Max: 4A / Min: 0A
CPU	• Monitors for CPU Cores, Chipset Voltages, Memory • 8 Phase-switching voltage regulator	Output Type	• Backplanes (gold finger)
FAN	• Fans with tachometer monitoring • Status monitor for speed control • Pulse Width Modulated (PWM) fan connectors	Operating Environment	
Temperature	• Monitoring for CPU and chassis environment • Thermal Control for fan connectors	Environmental Spec.	• Operating Temperature: 10°C to 35°C (50°F to 95°F) • Non-operating Temperature: -30°C to 60°C (-22°F to 140°F) • Operating Relative Humidity: 8% to 80% (non-condensing) • Non-operating Relative Humidity: 8% to 90% (non-condensing)

Resources

Prop 65 Warning