

WIO SuperServer SYS-522B-WR

2U UP WIO with 8 hot-swap 3.5” SAS/SATA (4 NVMe hybrid) bays and up to 5 PCIe 5.0 slots



Key Applications

General Purpose Computing, Web Server, Firewall Application, Data Center
Optimized, Entry-Level System for SOHO and SMB, Entry GPU server,
Networking Security Appliance,

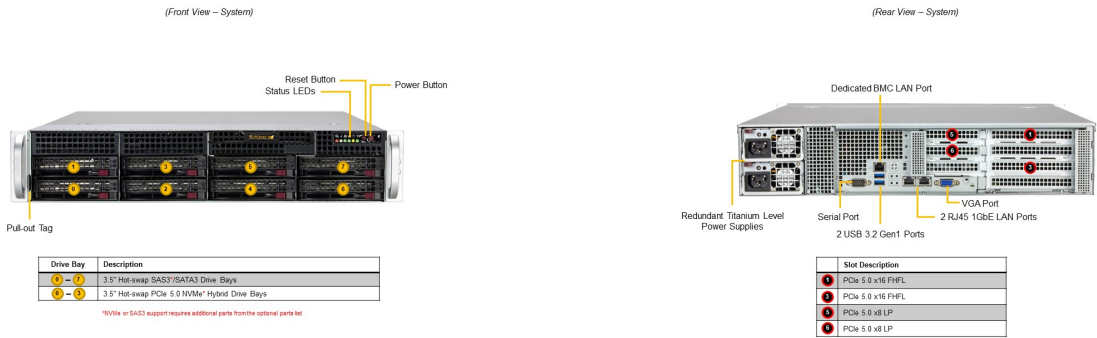
Key Features

- WIO systems offer flexible I/O configurations in a cost-effective architecture to deliver truly optimized systems for specific enterprise requirements.;
- Single Intel® Xeon® 6 Processor;
- 8 DIMM slots supporting up to 2TB of memory;
- Tool-less, Top-loading riser design support up to 5 PCIe 5.0 Expansion.;
- Native SATA drives supported, with option for up to 4 PCIe 5.0 NVMe drives or 8 SAS drives.;
- Trusted Platform Module (TPM) 2.0 onboard.;



Form Factor	2U Rackmount Enclosure: 437 x 89 x 647mm (17.2" x 3.5" x 25.5") Package: 673.1 x 279.4 x 863.6mm (26.5" x 11" x 34")
Processor	Single Socket E2 (LGA-4710) Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores P-cores: Up to 86C/172T; Up to 336MB Cache E-cores: Up to 144C/144T; Up to 108MB Cache
GPU	Max GPU Count: Up to 1 double-width or 2 single-width GPUs Supported GPU: NVIDIA PCIe: A1000, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO™ 4000 Blackwell, NVIDIA RTX PRO™ 4500 Blackwell, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 2000 Ada, RTX 4000 Ada Generation, RTX 5000 Ada NVIDIA: RTX A400 CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
System Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	Default: Total 8 bays • 8 front hot-swap 3.5" SAS*/SATA drive bays Option A: Total 8 bays • 4 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA drive bays • 4 front hot-swap 3.5"/2.5" SAS*/SATA drive bays (*NVMe/SAS 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 x2 NVMe slots (M-key 2280/22110; VROC required for RAID) Peripheral Bays: 1 slim peripheral bay
Expansion Slots	Default • 1 PCIe 5.0 x16 FHFL double-width slot • 1 PCIe 5.0 x16 FHFL slot • 2 PCIe 5.0 x8 LP slots Option A* • 1 PCIe 5.0 x16 FHFL double-width slot • 2 PCIe 5.0 x8 (in x16) FHFL slots • 2 PCIe 5.0 x8 LP slots

On-Board Devices	SATA: SATA (6Gbps) NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required) Network Connectivity: 2 RJ45 1GbE with Intel® I210
Input / Output	LAN: 2 RJ45 1 GbE LAN ports 1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1) USB: 2 USB 3.2 Gen1 Type-A ports (rear) 2 USB 3.2 Gen1 ports (Header) Video: 1 VGA port Serial: 1 COM port (header) 1 COM port (rear) TPM: 1 TPM header



System Cooling	Fans: Up to 3 heavy duty PWM 80x80x38cm Fan(s) Air Shroud: 1 CPU Air Shroud
Power Supply	2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies
System BIOS	BIOS Type: AMI 64MB SPI Flash EEPROM
Management	SuperCloud Composer® (SCC); Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!
PC Health Monitoring	CPU: 8 Phase-switching voltage regulator Monitors for CPU Cores, 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
Dimensions and Weight	Weight: Gross Weight: 59 lbs (26.76 kg) Net Weight: 34 lbs (15.42 kg) Available Color: Black
Operating Environment	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)
Motherboard	Super X14SBW-F
Chassis	CSE-825B2TS-R0WNP