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,
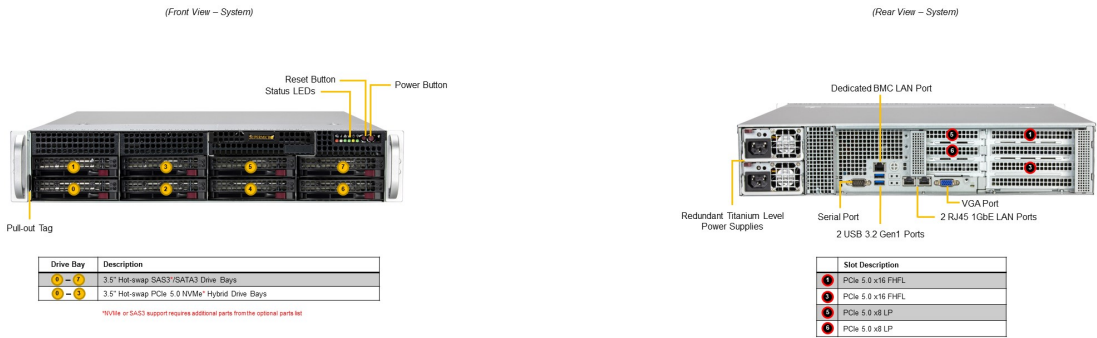
Key Features

- 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: RTX 5000 Ada, A1000, RTX 4000 Ada Generation 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) Chipset: System on Chip 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(Rear)
       1 COM port(Header)
TPM: 1 TPM header

(Front View – System)

(Rear View – System)

Drive Bay	Description
0 – 7	3.5" Hot-swap SAS3*/SATA3 Drive Bays
0 – 3	3.5" Hot-swap PCIe 5.0 NVMe* Hybrid Drive Bays

*NVMe or SAS3 support requires additional parts from the optional parts list

Slot Description
PCIe 5.0 x16 FHFL
PCIe 5.0 x16 FHFL
PCIe 5.0 x8 LP
PCIe 5.0 x8 LP

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®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!

PC Health Monitoring	CPU: Monitors for CPU Cores, Chipset Voltages, Memory
	    8 Phase-switching voltage regulator
	FAN: Fans with tachometer monitoring
	    Status monitor for speed control
	    Pulse Width Modulated (PWM) fan connectors
	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**