

# 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



More details here

## 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

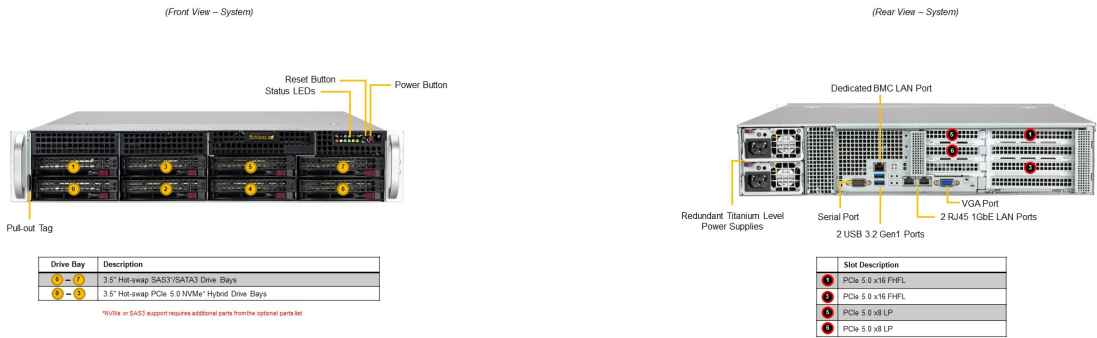
- WIO systems offer flexible I/O configurations in a cost-effective architecture to deliver truly optimized systems for specific enterprise requirements.;
- Single Intel® Xeon® 6 Processor;
- 8 DIMM slots supporting up to 2TB of memory;
- Tool-less, Top-loading riser design support up to 5 PCIe 5.0 Expansion.;
- 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.;



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| Form Factor              | 2U Rackmount<br>Enclosure: 437 x 89 x 647mm (17.2" x 3.5" x 25.5")<br>Package: 673.1 x 279.4 x 863.6mm (26.5" x 11" x 34")                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| Processor                | Single Socket E2 (LGA-4710)<br>Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores<br>P-cores: Up to 86C/172T; Up to 336MB Cache<br>E-cores: Up to 144C/144T; Up to 108MB Cache                                                                                                                                                                                                                                                                                                                                                      |
| GPU                      | Max GPU Count: Up to 1 double-width or 2 single-width GPUs<br>Supported GPU:<br>NVIDIA PCIe: A1000, NVIDIA RTX PRO™ 5000 Blackwell, NVIDIA RTX PRO™ 6000 Blackwell Max-Q Workstation Edition, RTX 2000 Ada, RTX 4000 Ada Generation, RTX 5000 Ada<br>NVIDIA: RTX A400<br>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect                                                                                                                                                                                                                                           |
| System Memory            | Slot Count: 8 DIMM slots/8 Channels<br>Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| Drive Bays Configuration | Default: Total 8 bays <ul style="list-style-type: none"> <li>• 8 front hot-swap 3.5" SAS*/SATA drive bays</li> </ul> Option A: Total 8 bays <ul style="list-style-type: none"> <li>• 4 front hot-swap 2.5" PCIe 5.0 x4 NVMe*/SAS*/SATA drive bays</li> <li>• 4 front hot-swap 3.5"/2.5" SAS*/SATA drive bays</li> </ul> (*NVMe/SAS support may require additional storage controller and/or cables, please see the optional parts list for details)<br>M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110; VROC required for RAID)<br>Peripheral Bays: 1 slim peripheral bay |
| Expansion Slots          | Default <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 FHFL double-width slot</li> <li>• 1 PCIe 5.0 x16 FHFL slot</li> <li>• 2 PCIe 5.0 x8 LP slots</li> </ul> Option A* <ul style="list-style-type: none"> <li>• 1 PCIe 5.0 x16 FHFL double-width slot</li> <li>• 2 PCIe 5.0 x8 (in x16) FHFL slots</li> <li>• 2 PCIe 5.0 x8 LP slots</li> </ul>                                                                                                                                                                                                                    |
| On-Board Devices         | SATA: SATA (6Gbps)<br>NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)<br>Chipset: System on Chip<br>Network Connectivity: 2 RJ45 1GbE with Intel® I210                                                                                                                                                                                                                                                                                                                                                                                                       |
| Input / Output           | LAN: 2 RJ45 1 GbE LAN ports<br>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

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| System Cooling        | <p>Fans: Up to 3 heavy duty PWM 80x80x38cm Fan(s)</p> <p>Air Shroud: 1 CPU Air Shroud</p>                                                                                                                                                                                                                                                              |
| Power Supply          | <p>2x 1000W Redundant (1 + 1) Titanium Level (96%) power supplies</p>                                                                                                                                                                                                                                                                                  |
| System BIOS           | <p>BIOS Type: AMI 64MB SPI Flash EEPROM</p>                                                                                                                                                                                                                                                                                                            |
| Management            | <p>SuperCloud Composer®; Supermicro Server Manager (SSM); Super Diagnostics Offline (SDO); Supermicro Thin-Agent Service (TAS); SuperServer Automation Assistant (SAA) New!</p>                                                                                                                                                                        |
| PC Health Monitoring  | <p>CPU: 8 Phase-switching voltage regulator</p> <p>Monitors for CPU Cores, Chipset Voltages, Memory</p> <p>FAN: Fans with tachometer monitoring</p> <p>Pulse Width Modulated (PWM) fan connectors</p> <p>Status monitor for speed control</p> <p>Temperature: Monitoring for CPU and chassis environment</p> <p>Thermal Control for fan connectors</p> |
| Dimensions and Weight | <p>Weight: Gross Weight: 59 lbs (26.76 kg)</p> <p>Net Weight: 34 lbs (15.42 kg)</p> <p>Available Color: Black</p>                                                                                                                                                                                                                                      |
| Operating Environment | <p>Operating Temperature: 10°C to 35°C (50°F to 95°F)</p> <p>Non-operating Temperature: -30°C to 60°C (-22°F to 140°F)</p> <p>Operating Relative Humidity: 8% to 80% (non-condensing)</p> <p>Non-operating Relative Humidity: 8% to 90% (non-condensing)</p>                                                                                           |
| Motherboard           | <p><a href="#">Super X14SBW-F</a></p>                                                                                                                                                                                                                                                                                                                  |
| Chassis               | <p>CSE-825B2TS-R0WNP</p>                                                                                                                                                                                                                                                                                                                               |