

# 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

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

## 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.;



<b>Form Factor</b>	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")
<b>Processor</b>	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
<b>GPU</b>	Max GPU Count: Up to 1 double-width or 2 single-width GPUs Supported GPU: NVIDIA PCIe: RTX 4000 Ada Generation CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect
<b>System Memory</b>	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
<b>Drive Bays Configuration</b>	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) 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
<b>Expansion Slots</b>	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>
<b>On-Board Devices</b>	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
<b>Input / Output</b>	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

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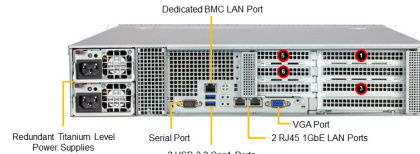
(Front View – System)



Drive Bay	Description
1 - 7	3.5" Hot-swap SAS/SATA3 Drive Bays
8 - 10	3.5" Hot-swap PCIe 5.0 NVMe* Hybrid Drive Bays

\*NVMe or SAS3 support requires additional parts from the optional parts kit

(Rear View – System)



Slot	Description
1	PCIe 5.0 x16 FH/FL
2	PCIe 5.0 x16 FH/FL
3	PCIe 5.0 x8 LP
4	PCIe 5.0 x8 LP

System Cooling	Fans: 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	<a href="#"><b>Super X14SBW-F</b></a>
Chassis	<b>CSE-825B2TS-R0WNP</b>