

# WIO SuperServer SYS-112B-WR

1U UP WIO with 10 hot-swap 2.5" NVMe/SAS/SATA bays and 3 PCIe 5.0 slots



More details here

## Key Applications

Virtualization, Cloud Computing, Data Center Optimized, Database/Storage, Storage Headnode, Web Cache, CDN, Video Streaming, AI Inference, 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 3 PCIe 5.0 Expansion (2x FHFL + 1x LP);
- Native SATA drives supported, with option for up to 8 PCIe 5.0 NVMe drives or 10 SAS drives.;
- Trusted Platform Module (TPM) 2.0 onboard.;



Form Factor	1U Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5") Package: 597 x 197 x 800mm (23.5" x 7.75" x 31.5")
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
System Memory	Slot Count: 8 DIMM slots/8 Channels Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM
Drive Bays Configuration	<p>Default: Total 8 bays</p> <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" SAS*/SATA drive bays</li> </ul> <p>Option A: Total 10 bays</p> <ul style="list-style-type: none"> <li>• 2 front hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays</li> <li>• 8 front hot-swap 2.5" SAS*/SATA drive bays</li> </ul> <p>Option B: Total 10 bays</p> <ul style="list-style-type: none"> <li>• 4 front hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays</li> <li>• 6 front hot-swap 2.5" SAS*/SATA drive bays</li> </ul> <p>Option C: Total 10 bays</p> <ul style="list-style-type: none"> <li>• 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays</li> <li>• 2 front hot-swap 2.5" SAS*/SATA drive bays</li> </ul> <p>Option D: Total 10 bays</p> <ul style="list-style-type: none"> <li>• 10 front hot-swap 2.5" SAS* drive bays</li> </ul> <p>(*NVMe/SAS support may require additional storage controller and/or cables, please see the optional parts list for details)</p> <p>M.2: 2 M.2 PCIe 5.0 x2 NVMe slots (M-key 2280/22110; VROC required for RAID)</p>
Expansion Slots	<p>Default</p> <ul style="list-style-type: none"> <li>• 2 PCIe 5.0 x16 FHFL slots</li> <li>• 1 PCIe 5.0 x8 (in x16) LP slot</li> </ul>
On-Board Devices	<p>SATA: SATA (6Gbps)</p> <p>NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)</p> <p>Chipset: System on Chip</p> <p>Network Connectivity: 2 RJ45 1GbE with Intel® I210</p>
Input / Output	<p>LAN: 2 RJ45 1 GbE LAN ports</p> <p>1 RJ45 1 GbE Dedicated BMC LAN port (IPMI shared on LAN port 1)</p> <p>USB: 2 USB 3.2 Gen1 Type-A ports(rear)</p> <p>2 USB 3.2 Gen1 Type-A ports(front)</p> <p>Video: 1 VGA port</p>

Serial: 1 COM port(Rear)  
1 COM port(Header)

TPM: 1 TPM header

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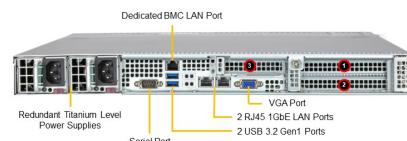
(Front View – System)



Drive Bay	Description
10	Hot-swap 2.5" PCIe 5.0 NVMe/3SAS3/SATA3 Drive Bays

\* NVMe, SAS3, or SATA3 support requires additional parts from the optional parts list.  
\*\* Maximum 8.0 TB/s drives  
† Native SATA3 drives

(Rear View – System)



Slot Description
PCIe 5.0 x16 FHFL
PCIe 5.0 x16 FHFL
PCIe 5.0 x8 (in x16) LP

## System Cooling

Fans: Up to 1 AOC cooling Fan(s) (optional)  
Up to 5 middle cooling PWM 40x40x56mm Fan(s)  
Air Shroud: 1 CPU Air Shroud

## Power Supply

2x 860W 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: 33.5 lbs (15.2 kg)  
Net Weight: 21 lbs (9.53 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-116BTS-R000WNP](#)