

WIO SuperServer SYS-112B-WR

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



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	<p>1U</p> <p>Enclosure: 437 x 43 x 597mm (17.2" x 1.7" x 23.5")</p> <p>Package: 597 x 197 x 800mm (23.5" x 7.75" x 31.5")</p>
Processor	<p>Single Socket E2 (LGA-4710)</p> <p>Intel® Xeon® 6700/6500 series processors with P-cores or 6700 series processors with E-cores</p> <p>P-cores: Up to 86C/172T; Up to 336MB Cache</p> <p>E-cores: Up to 144C/144T; Up to 108MB Cache</p>
GPU	<p>Max GPU Count: Up to 1 double-width or 2 single-width GPUs</p> <p>Supported GPU:</p> <p>NVIDIA PCIe: L4, NVIDIA RTX PRO 2000 Blackwell, NVIDIA RTX PRO 4000 Blackwell SFF Edition, RTX 2000 Ada</p> <p>NVIDIA: RTX A400</p> <p>CPU-GPU Interconnect: PCIe 5.0 x16 CPU-to-GPU Interconnect</p>
System Memory	<p>Slot Count: 8 DIMM slots/8 Channels</p> <p>Max Memory (1DPC): Up to 2TB 6400MT/s ECC DDR5 RDIMM</p>
Drive Bays Configuration	<p>Default: Total 8 bays</p> <ul style="list-style-type: none"> • 8 front hot-swap 2.5" SAS*/SATA drive bays <p>Option A: Total 10 bays</p> <ul style="list-style-type: none"> • 2 front hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays • 8 front hot-swap 2.5" SAS*/SATA drive bays <p>Option B: Total 10 bays</p> <ul style="list-style-type: none"> • 4 front hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays • 6 front hot-swap 2.5" SAS*/SATA drive bays <p>Option C: Total 10 bays</p> <ul style="list-style-type: none"> • 8 front hot-swap 2.5" PCIe 5.0 x4 NVMe* drive bays • 2 front hot-swap 2.5" SAS*/SATA drive bays <p>Option D: Total 10 bays</p> <ul style="list-style-type: none"> • 10 front hot-swap 2.5" SAS* drive bays <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"> • 2 PCIe 5.0 x16 FHFL slots • 1 PCIe 5.0 x8 (in x16) LP slot
On-Board Devices	<p>SATA: SATA (6Gbps)</p> <p>NVMe: NVMe; RAID 0/1/5/10 support(Intel® VROC RAID key required)</p> <p>Network Connectivity: 2 RJ45 1GbE with Intel® I210</p>

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 Type-A ports(front)

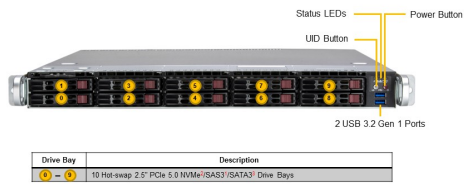
Video: 1 VGA port

Serial: 1 COM port(header)

1 COM port(rear)

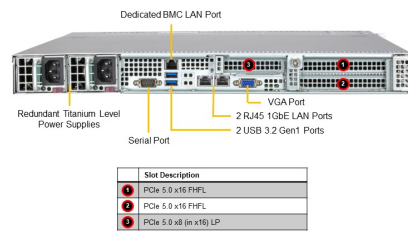
TPM: 1 TPM header

(Front View – System)



NVMe, SAS3, or SATA3 support requires additional parts from the optional parts list
 *Maximum 8 NVMe drives
 †6 native SATA3 drives

(Rear View – System)



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® (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: 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	<u>Super X14SBW-F</u>
Chassis	<u>CSE-116BTS-R000WNP</u>