X14 WIO

Industry's Widest Variety of I/O Optimized Servers

Single-processor optimized architecture supporting up to 5 PCIe 5.0 devices

- **Single socket Intel® Xeon® 6700 series processors with E-cores**
- **X14 WIO will also support Intel Xeon 6700 with P-cores in Q1'25**
- **8 DIMM slots supporting DDR5-6400**
- **Support for double-width GPUs via top-loading expansion mechanism**
- **Hot-swappable 2.5" or 3.5" SATA/NVMe storage**
- **Up to 8 NVMe hybrid storage drives supported (optional)**

Wide-ranging flexibility for any enterprise workload

Supermicro WIO systems offer a wide range of I/O options to deliver truly optimized systems for specific requirements. Users can optimize the storage and networking alternatives to accelerate performance, increase efficiency and find the perfect fit for their applications. In addition to enabling customizable configurations and optimization for multiple application requirements, the Supermicro WIO family of servers also provides attractive cost advantages and investment protection.

Highly Flexible for a Range of Enterprise Workloads

Supermicro WIO systems offer flexibility and value for everyday virtualization, cloud computing, enterprise and data center workloads. Enhanced PCIe expansion slot configurations with tool-less brackets allow for accelerators and other add-on cards including entry-level GPUs for AI inferencing or DPU modules to maximize networking efficiency.

Do More with Less

The single processor design of the WIO family delivers the perfect balance of performance and value in a mid-range rackmount system, while also reducing power and licensing costs for certain workloads. The increased core count and performance of the new Intel® Xeon® 6 6700 series processors means more applications can be handled with just a single processor, reducing initial outlay and ongoing operating costs.

Top-Loading Expansion

The X14 WIO systems feature a completely redesigned rear window and expansion assembly, with a tool-less design meaning any add-on card can be added or removed without the need for a screwdriver. The updated top-loading expansion allows double-width GPUs to be installed in Supermicro WIO systems for the first time, bringing a new level of accelerated compute to this popular workhorse family.

Powered by Intel Xeon 6 Processors

New Intel Xeon 6700 series processors with E-cores are optimized to deliver ultra-high-density compute in the most power-efficient manner. These processors are performance-per-watt optimized with high core density and high-throughput performance, enabling precise matching of CPU compute requirements with the highly flexible X14 WIO server range for maximum workload optimization and efficiency.

WIO	SYS-112B-WR	SYS-512B-WR	SYS-522B-WR
Processor Support	Single Intel® Xeon® 6700 series processor with E-cores Up to 300W TDP (air cooled)†	Single Intel® Xeon® 6700 series processor with E-cores Up to 300W TDP (air cooled)†	Single Intel® Xeon® 6700 series processor with E-cores Up to 300W TDP (air cooled)†
Memory Slots & Capacity	8 DIMM slots; Up to 1TB DDR5-6400MT/s	8 DIMM slots; Up to 1TB DDR5 6400MT/s	8 DIMM slots; Up to 1TB DDR5 6400MT/s
I/O Ports	2 1GbE RJ45 ports 1 RJ45 dedicated IPMI LAN port 4 USB 3.2 Gen 1 port(s) (2 front/2 rear) 1 VGA port (rear) 1 COM ports (1 rear/1 header)	2 1GbE RJ45 ports 1 RJ45 dedicated IPMI LAN port 4 USB 3.2 Gen 1 port(s) (2 header/2 rear) 1 VGA port (rear) 1 COM ports (1 rear/1 header)	2 1GbE RJ45 ports 1 RJ45 dedicated IPMI LAN port 4 USB 3.2 Gen 1 port(s) (2 header/2 rear) 1 VGA port (rear) 1 COM ports (1 rear/1 header)
Motherboard	X14SBW-F	X14SBW-F	X14SBW-F
Form Factor	1U Rackmount 597mm/23.5″ depth	1U Rackmount 650mm/25.6″ depth	2U Rackmount 647mm/25.5″ depth
Expansion Slots	2 PCIe 5.0 x16 FHFL slots 1 PCIe 5.0 x8 (in x16) LP slot	2 PCIe 5.0 x16 FHFL slots 1 PCIe 5.0 x8 (in x16) LP 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
Drive Bays	Default 8 front hot-swap 2.5″ SATA drive bays Option A 8 front hot-swap 2.5″ SATA drive bays 2 front hot-swap 2.5″ PCIe 5.0 x4 NVMe drive bays Option B 4 front hot-swap 2.5″ PCIe 5.0 x4 NVMe drive bays 6 front hot-swap 2.5″ SATA drive bays Option C 8 front hot-swap 2.5″ PCIe 5.0 x4 NVMe drive bays 2 front hot-swap 2.5″ SATA drive bays Option D 10 front hot-swap 2.5″ SAS* drive bays	Default 4 front hot-swap 3.5″ SATA drive bays Option A 4 front hot-swap 2.5″ PCIe 5.0 x2 NVMe drive bays Option B 4 front hot-swap 3.5″/2.5″ SAS drive bays	Default 8 front hot-swap 3.5″ SATA drive bays Option A 4 front hot-swap 2.5″ PCIe 5.0 x4 NVMe drive bays 4 front hot-swap 3.5″/2.5″ SATA drive bays Option B 8 front hot-swap 3.5″/2.5″ SAS drive bays
Cooling	5 heavy duty 4cm fans (1 optional AOC cooling fan)	5 heavy duty 4cm fans (1 optional AOC cooling fan)	3 heavy duty 8cm fans
Power	Redundant 860W Titanium level (94%)	Redundant 860W Titanium level (94%)	Redundant 1000W Titanium level (96%)

† CPUs with high TDP supported under specific conditions. Contact Technical Support for details.