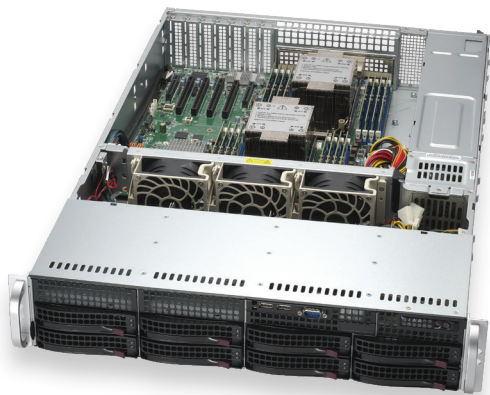# X13 Mainstream

Flexible, Easy-to-Deploy and Cost-Effective Servers for General Compute Applications

Dual processor architectures in 2U rackmount and 4U tower form factors

- Hot-swappable 3.5"or 2.5" storage with optional SAS/SATA/NVMe
- 6 rear PCIe 5.0 expansion slots for high-speed data transmission/networking, acceleration or offload cards depending on workload
- 5th Gen Intel® Xeon® processors are the most powerful ever, providing better general compute
- Front peripheral bays for flexible expansion

Made for SMBs

Supermicro's X13 mainstream family has been specifically designed to deliver balanced compute power and storage flexibility in a cost-effective architecture. Rackmount systems with front-loading SATA bays allow for sufficient storage to handle most enterprise applications, while rear PCIe slots can provide ample networking for day-to-day workloads. For organizations that are not equipped for rackmount servers, the 4U tower form factor provides data center compute power in a compact and portable chassis that can be installed in offices, laboratories or field offices.

Highly Flexible for a Range of Enterprise Workloads

Supermicro Mainstream systems offer flexibility and value for everyday virtualization, enterprise and data serving workloads commonly required by small and medium organizations. Up to 6 rear PCIe 5.0 expansion slots offer flexibility for networking, acceleration or offload cards depending on workload. Up to 16 front-loading storage drives can support SAS or SATA RAID configurations, while optional NVMe drive support can be implemented for high-speed caching.

Optional Peripheral Bays

Both the rackmount and tower form factors feature slim or 5.25" peripheral bays to allow additional expansion for legacy storage devices, or for on-board backups via DVD-RW drives.

Powered by 5th Gen Intel Xeon Processors

5th Gen Intel Xeon processors are the most powerful ever, providing better general compute performance at the same power envelope than the previous generation, which can reduce the total number of systems required to run business applications. 5th Gen Intel Xeon also includes optimizations for storage, cloud or networking workloads as well as built-in accelerator engines. Intel's Data Streaming Accelerator (Intel DSA) offloads common data movement tasks to reduce overhead and increase CPU and memory workload performance, while Intel QuickAssist Technology (Intel QAT) offloads popular compression and cryptographic algorithms, increasing core workload capacity.

WIO	SYS-221P-C9R/C9RT	SYS-621P-TR/TRT	SYS-741P-TR/TRT
Processor Support	Dual 5th/4th Gen Intel® Xeon® Scalable processors up to 300W	Dual 5th/4th Gen Intel® Xeon® Scalable processors up to 300W	Dual 5th/4th Gen Intel® Xeon® Scalable processors up to 300W
Memory Slots & Capacity	16 DIMM slots; Up to 4TB DDR5-5600MT/s	16 DIMM slots; Up to 4TB DDR5-5600MT/s	16 DIMM slots; Up to 4TB DDR5-5600MT/s
I/O Ports	1 RJ45 Dedicated IPMI LAN port 2 1GbE ports (C9R)/2 10GbE ports (C9RT) 2 USB 2.0 ports (front) + 4 USB 3.0 ports (rear) 2 COM ports (front/rear) 1 VGA port (rear)	1 RJ45 Dedicated IPMI LAN port 2 1GbE ports (TR)/2 10GbE ports (TRT) 2 USB 2.0 ports (front) + 4 USB 3.0 ports (rear) 2 COM ports (front/rear) 1 VGA port (rear)	1 RJ45 Dedicated IPMI LAN port 2 1GbE ports (TR)/2 10GbE ports (TRT) 2 USB 3.0 ports (front) + 4 USB 3.0 ports (rear) 1 COM port (rear) 1 VGA port (rear)
Motherboard	X13DEI-T (10GbE)/X13DEI-T (1GbE)	X13DEI-T (10GbE)/X13DEI-T (1GbE)	X13DEI-T (10GbE)/X13DEI-T (1GbE)
Form Factor	2U Rackmount 630mm/24.8" depth	2U Rackmount 647mm/25.5" depth	4U Tower 647mm/25.5" depth
Expansion Slots	1 PCIe 5.0 x8 LP slots 4 PCIe 5.0 x16 LP slots	2 PCIe 5.0 x8 LP slots 4 PCIe 5.0 x16 LP slots	2 PCIe 5.0 x8 FH slots 4 PCIe 5.0 x16 FH slots
Drive Bays	16 hot-swap 2.5" SATA drive bays (optional 8 SAS/4 NVMe) 1 slim/5.25" DVD drive bay (optional)	8 hot-swap 3.5" SATA drive bays (optional SAS/NVMe) 1 slim DVD drive bay (optional)	8 hot-swap 3.5" SATA drive bays (optional 8 SAS/4 NVMe) 3 5.25" DVD drive bays (optional)
Cooling	3 heavy duty 8cm fans	3 center mounted 8cm fans	2 rear/3 middle fans
Power	Redundant 1200W Titanium level (96%)	Redundant 1200W Titanium level (96%)	Redundant 1200W Titanium level (96%)

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