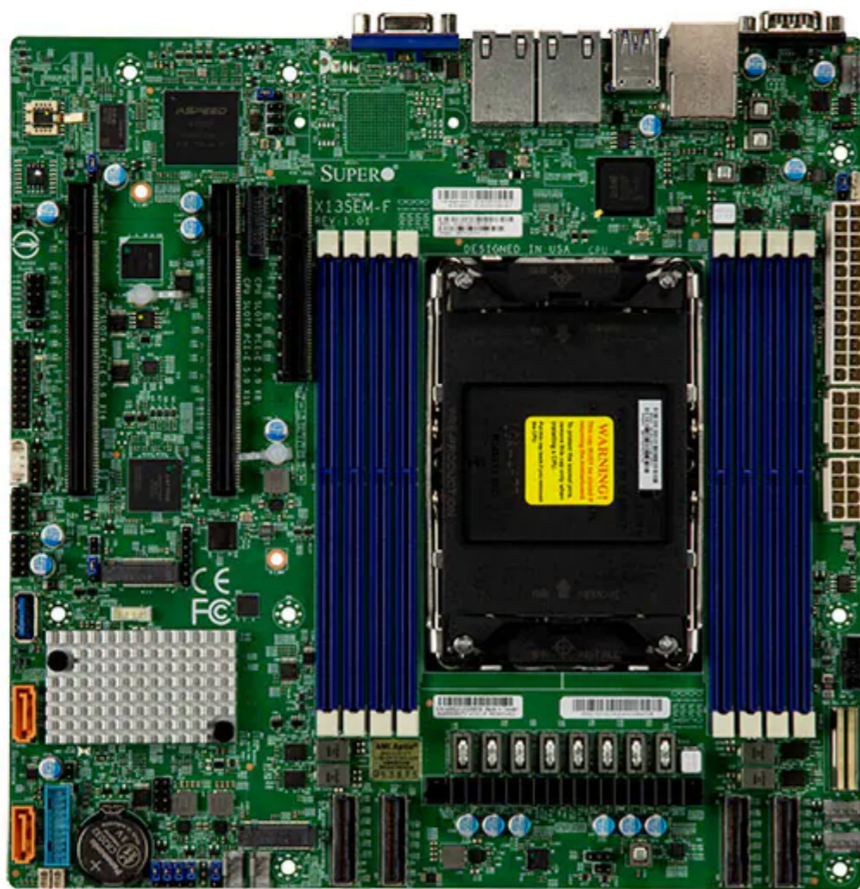


# X13SEM-F



## Key Features

- 5th/4th Gen Intel® Xeon® Scalable processors, Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP
- Intel C741® Chipset
- Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s (1DPC) in 8 DIMM slots
- 8 NVMe ports PCIe 5.0 x4 via 4 MCIO connectors
- 1 PCIe 5.0 x8,  
2 PCIe 5.0 x16,  
4 PCIe 5.0 x8 MCIO connectors
- M.2 Interface:** 2 PCIe 4.0 x2
- M.2 Form Factor:** 2280, 22110
- M.2 Key:** M-Key
- Dual LAN with 1GbE with Intel® I350
- 5 USB 3.2 Gen1 (2 rear, 1 Type-A, 2 via header), 6 USB 2.0 (2 rear, 4 via headers)
- Intel® C741 controller for 10 SATA3 (6 Gbps) ports or 2 PCIe 3.0 x4 SATA3 ports; RAID (SATA) 0,1,5,10

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## Specifications

## Resources

## Parts List

### Product SKUs

**MBD-X13SEM-F**

### Physical Stats

<b>Form Factor</b>	microATX
<b>Dimension</b>	9.6" x 9.6" (24.38cm x 24.38cm)

### Processor

<b>CPU</b>	<a href="#">5th Gen Intel® Xeon®</a> / <a href="#">4th Gen Intel® Xeon® Scalable processors</a> Single Socket Socket E (LGA-4677) supported, CPU TDP supports Up to 350W TDP *BIOS 2.1 or above is required to support 5th Gen Intel® Xeon® Scalable processors
<b>Core</b>	Up to 64 cores

### System Memory

<b>Memory Capacity</b>	8 DIMM slots Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s **24GB & 48GB DIMM only support 1 DPC. *24GB/48GB/96GB DDR5 DIMMs with 24Gb chip are only supported by 5th and 4th XCC Gen Intel® Xeon-SP CPU.
<b>Memory Type</b>	5600/5200/4800/4400/4000 MT/s ECC DDR5 RDIMM (3DS) Up to 256GB of memory with speeds of up to 5600MT/s(1DPC)
<b>DIMM Sizes</b>	16GB, 24GB, 32GB, 48GB, 64GB, 96GB, 128GB, 256GB
<b>Memory Voltage</b>	1.1V
<b>Error Detection</b>	Corrects single-bit errors

### On-Board Devices

<b>Chipset</b>	Intel® C741
<b>SATA</b>	Intel® C741 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
<b>IPMI</b>	ASPEED AST2600 BMC
<b>Graphics</b>	1 Aspeed AST2600 BMC port(s)
<b>Network Controllers</b>	Dual LAN with 1GbE with Intel® I350

### Input / Output

<b>SATA</b>	10 SATA3 (6Gbps) port(s)
<b>LAN</b>	2 RJ45 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port
<b>USB</b>	6 USB 2.0 port(s) (4 via header; 2 rear) 5 USB 3.2 Gen1 port(s) (2 via header; 2 rear; 1 type A)
<b>Video Output</b>	1 VGA D-Sub Connector port(s)
<b>Serial Port</b>	1 COM Port(s) (1 rear)
<b>DOM</b>	2 SATA <a href="#">DOM</a> (Disk on Module) power connector support
<b>TPM</b>	1 TPM Header

### Expansion Slots

<b>PCIe</b>	2 PCIe 5.0 x16, 1 PCIe 5.0 x8, 4 PCIe 5.0 x8 MCIO connector
<b>M.2</b>	M.2 Interface: 2 PCIe 4.0 x2 Form Factor: 2280/22110 Key: M-Key

### System BIOS

<b>BIOS Type</b>	AMI UEFI
<b>BIOS Features</b>	ACPI 6.4 SMBIOS 3.5 UEFI 2.8 or above

### Management

<b>Software</b>	<a href="#">SuperCloud Composer</a> , <a href="#">Supermicro Server Manager (SSM)</a> , <a href="#">Supermicro Power Manager (SPM)</a> , <a href="#">Supermicro Update Manager (SUM)</a> , <a href="#">Supermicro SuperDoctor® 5 (SD5)</a> , <a href="#">Super Diagnostics Offline (SDO)</a> , <a href="#">Supermicro Thin-Agent Service (TAS)</a> , <a href="#">SuperServer Automation Assistant (SAA) New!</a> , <a href="#">Plug-ins for 3rd Party Software</a> , <a href="#">IPMI Utilities</a>
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### Security

<b>Hardware</b>	Trusted Platform Module (TPM) 2.0
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### PC Health Monitoring

<b>Voltage</b>	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 5 -fan status, +5V standby, +5V, +3.3V, +12V
<b>LED</b>	UID/Remote UID CPU / System Overheat LED
<b>Temperature</b>	Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI
<b>FAN</b>	5x 4-pin fan headers (up to 5 fans) Fan speed control 5 fans with tachometer status monitoring Overheat LED indication
<b>Other Features</b>	WOL, UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management

Certain products may not be available in your region

Global SKU **English**

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