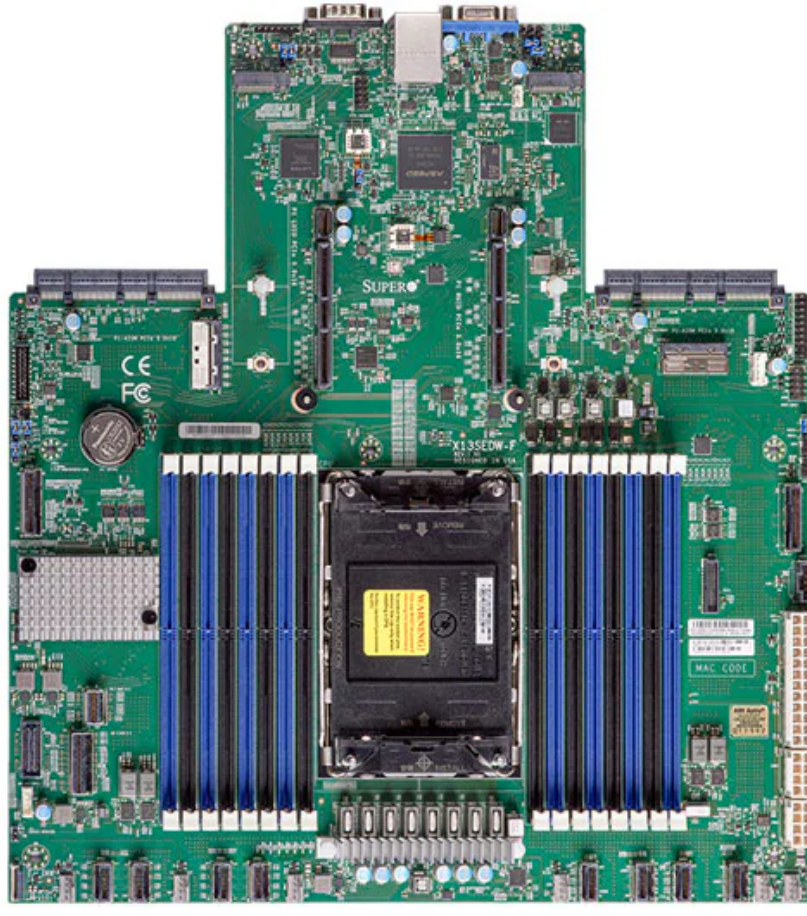# X13SEDW-F (For SuperServer Only)

🖨 **Print**

Key Features

1. 5th/4th Gen Intel® Xeon® Scalable processors, Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP
2. Intel C741® Chipset
3. Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s (1DPC) or DDR5-4400MT/s (2DPC) in 16 DIMM slots
4. 2 PCIe 5.0 x16 4C
   1 PCIe 5.0 x8 AIOM
   1 PCIe 5.0 x0 AIOM
   M.2 Interface: 2 PCIe 3.0 x2
   M.2 Form Factor: 2280, 22110
   M.2 Key: M-Key
5. 8 MCIO PCIe 5.0 x4 connectors
   1 MCIO PCIe 5.0 x8 connectors
6. AIOM for LAN
7. I/O: 1 VGA, 1 COM, 1 TPM header, 1 NC-SI header
8. Intel® C741 controller for 12 SATA3 (6 Gbps) ports
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Optimized Servers

SYS-111C-NR   SYS-521C-NR   SSG-521E-E1CR24H   SSG-521E-E1CR24L

Specifications | Resources | Parts List

Product SKUs

MBD-X13SEDW-F

Physical Stats

Form Factor	Proprietary CloudDC
Dimension	13" x 13" (33.02cm x 33.02cm)

Processor

CPU	5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors Single 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
Core	Up to 64 cores

System Memory

Memory Capacity	16 DIMM slots Up to 4TB 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.
Memory Type	5600/5200/4800/4400/4000 MT/s ECC DDR5 RDIMM (3DS) Up to 256GB of memory with speeds of up to 4400MT/s (2DPC)
DIMM Sizes	16GB, 24GB, 32GB, 48GB, 64GB, 96GB, 128GB, 256GB
Memory Voltage	1.1V
Error Detection	Corrects single-bit errors

On-Board Devices

Chipset	Intel® C741
SATA	Intel® C741 controller for 12 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	ASPEED AST2600 BMC
Graphics	1 Aspeed AST2600 BMC port(s)
Network Controllers	AIOM for LAN

Input / Output

SATA	12 SATA3 (6Gbps) port(s)
LAN	1 AIOM 1 AIOM
USB	2 USB 2.0 port(s) (2 via header) 2 USB 3.2 Gen1 port(s) (2 rear)
Video Output	1 VGA D-Sub Connector port(s)
Serial Port	1 COM Port(s) (1 header)
TPM	1 TPM Header

Expansion Slots

PCIe	1 PCIe 5.0 x8 AIOM, 1 PCIe 5.0 x0 AIOM, 2 PCIe 5.0 x16 4C slots, 8 PCIe 5.0 x4 PCIe5.0 MCIO connector, 1 PCIe 5.0 x8 PCIe5.0 MCIO connector
M.2	M.2 Interface: 2 PCIe 3.0 x2 Form Factor: 2280/22110 Key: M-Key

System BIOS

BIOS Type	AMI UEFI
BIOS Features	ACPI 6.4 SMBIOS 3.5 UEFI 2.8 or above

Management

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

PC Health Monitoring

Voltage	System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V, Memory Voltages
LED	UID/Remote UID CPU / System Overheat LED
Temperature	Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI
FAN	6x 4-pin fan headers (up to 6 fans) Fan speed control 6 fans with tachometer status monitoring Overheat LED indication
Other Features	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

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