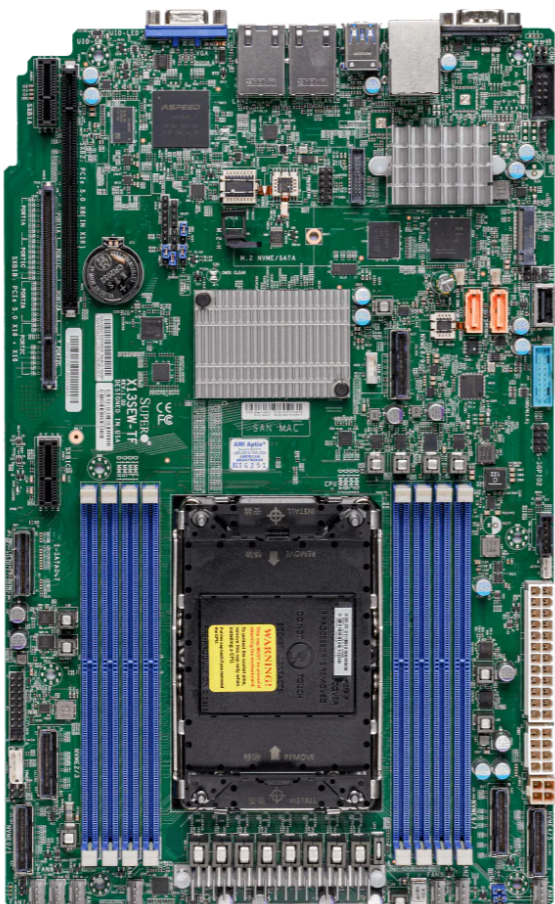» Products » Motherboards

X13SEW-TF-OS1 (For SuperServer Only)

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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 2TB 3DS ECC RDIMM, DDR5-5600MT/s (1DPC) in 8 DIMM slots
4. 1 PCIe 5.0 x8 (in x16)
   1 PCIe 5.0 x32
   M.2 Interface: 1 PCIe 3.0 x2
   M.2 Form Factor: 2280, 22110
   M.2 Key: M-Key
5. 10 NVMe ports PCIe 5.0 x8 via 5 MCIO connectors
6. Dual LAN with 10GBase-T with Intel® X550
7. 2 SuperDOM with built-in power
8. I/O: 1 VGA, 2 COM, 1 TPM header
9. 4 USB 3.2 Gen1 (2 rear, 2 via header), 3 USB 2.0 (2 rear, 1 via Type
10. Intel® C741 controller for 10 SATA3 (6 Gbps) ports

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Optimized Servers

SYS-111E-FDWTR-OS1   SYS-111E-FWTR-OS1

Specifications	Resources	Parts List

Product SKUs

MBD-X13SEW-TF-OS1

Physical Stats

Form Factor	Proprietary WIO
Dimension	8" x 13" (20.32cm 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
Core	Up to 64 cores

System Memory

Memory Capacity	8 DIMM slots Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s
Memory Type	5600/5200/4800/4400/4000 MT/s ECC DDR5 RDIMM (3DS) Up to 256GB of memory with speeds of up to 5600MT/s(1DPC)
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 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10
IPMI	ASPEED AST2600 BMC
Graphics	1 Aspeed AST2600 BMC port(s)
Network Controllers	Dual LAN with 10GBase-T with Intel® X550

Input / Output

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

Expansion Slots

PCIe	1 PCIe 5.0 x8 Right Riser (in x16) slot, 1 PCIe 5.0 x32 Left Riser Slot, 5 PCIe 5.0 x8 PCIe5.0 MCIO connector
M.2	M.2 Interface: 1 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	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 6 -fan status, +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, ACPI power management

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