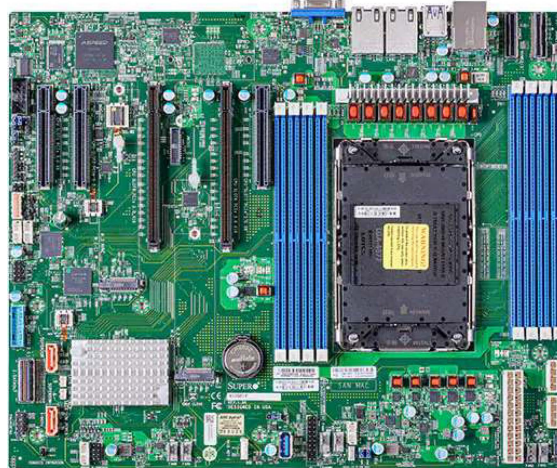# X13SEI-F

Key Features

5th/4th Gen Intel® Xeon® Scalable processors, Single Socket LGA-4677 (Socket E), CPU TDP supports up to 350W TDP

Intel C741® Chipset

Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s (1DPC) in 8 DIMM slots

2 MCIO (PCIe5.0 x8) connectors for 4 NVMe SSDs

3 PCIe 5.0 x8,

2 PCIe 5.0 x16,

M.2 Interface: 2 PCIe 5.0 x4

M.2 Form Factor: 2280, 22110

M.2 Key: M-Key

Dual LAN with 1GbE with Intel® I210

4 USB 3.2 Gen1 (2 rear, 1 Type-A, 1 via header), 2 USB 2.0 (2 rear)

Intel® C741 controller for 10 SATA3 (6 Gbps) ports

Specifications

Product SKUs
MBD-X13SEI-F

Physical Stats
Form Factor
EATX
Dimension
12.3" x 10.1" (31.24cm x 25.65cm)

Processor
CPU

5th Gen Intel® Xeon® (/en/support/resources/cpu-5th-gen-intel-xeon-scalable) / 4th Gen Intel® Xeon® Scalable processors (/en/support/resources/cpu-4th-gen-intel-xeon-scalable)

Single Socket E (LGA-1700) 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
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.
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 1GbE with Intel® I210

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

Expansion Slots
PCIe
2 PCIe 5.0 x16,
3 PCIe 5.0 x8,
2 PCIe 5.0 x8 PCIe5.0 MCIO connector
M.2
M.2 Interface: 2 PCIe 5.0 x4
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
Redfish API (/manuals/other/RedfishRefGuide.pdf), Supermicro Server Manager (SSM) (/solutions/SMS_SSM.cfm), Supermicro Power Manager (SPM) (/solutions/SMS_SPM.cfm), Supermicro Update Manager (SUM) (/solutions/SMS_SUM.cfm), Supermicro SuperDoctor® 5 (SD5) (/en/solutions/management-software/superdoctor), Super Diagnostics Offline (SDO) (/en/solutions/management-software/super-diagnostics-offline), KVM with dedicated LAN (/manuals/other/BMC_IPMI_X13_H13.pdf#page=112), IPMI 2.0 (/solutions/IPMI.cfm)

PC Health Monitoring
Voltage
VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, +5V standby, +5V, +3.3V, +12V, Memory Voltages, 7-fan status
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
7x 4-pin fan headers (up to 7 fans)
Fan speed control
Overheat LED indication
7 fans with tachometer status monitoring
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

Operating Environment
Operating Temperature Range
0°C - 50°C (32°F - 122°F)
Non-Operating Temperature Range
-20°C - 60°C (-4°F - 140°F)
Operating Relative Humidity Range
10% - 85% (non-condensing)
Non Operating Relative Humidity Range
10% - 95% (non-condensing)