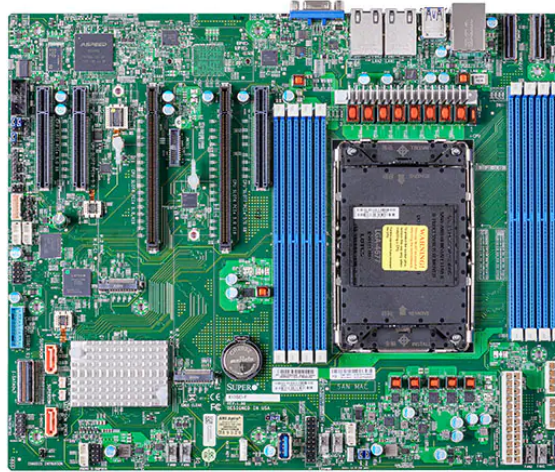# X13SEI-F

Key Features

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, DDR5-4800MT/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
ATX

Dimension
12.3" x 10.3" (31.24cm x 26.16cm)

Processor
CPU

4th Gen Intel® Xeon® Scalable processors

Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP

Core
Up to 60 cores

System Memory
Memory Capacity
8 DIMM slots
Up to 2TB 3DS ECC RDIMM, DDR5-4800MHz

Memory Type
4800/4400/4000MHz ECC DDR5 RDIMM (3DS) Up to 256GB of memory with speeds of up to 4800MT/s (1DPC)

DIMM Sizes
16GB, 32GB, 64GB, 128GB, 256GB
RDIMM: 16GB, 32GB, 64GB, 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

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 port(s) (2 rear)
4 USB 3.2 Gen1 port(s) (2 rear; 1 type A; 1 via header)

Video Output
1 VGA D-Sub Connector port(s)

Serial Port
1 COM Port(s) (1 header)

DOM
2 SATA DOM (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 or later
UEFI 2.8

Management
Software
SuperDoctor® 5, SPM, SUM, SSM, IPMICFG, IPMIView for Linux/Windows, SMCIPMITool, Trusted Platform Module (TPM), Chasis Intrusion Detection

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
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

Parts List

Standard Parts (Bulk Package)

CPU carrier

Part Number	SKT-1333L-0000-FXC	SKT-1424L-001B-FXC
Qty	1	1

Description	CPU carrier for 4th Gen Intel® Xeon® Scalable processors (XCC)	CPU carrier for 4th Gen Intel® Xeon® Scalable processors (MCC)

I/O Shield

Part Number	MCP-260-00042-1N
Qty	1
Description	STD I/O Shield for X13SEI-TF/-F with EMI Gasket

SATA cable

Part Number	CBL-0044L • *e*Store
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

Standard Parts (Retail Package)

CPU carrier

Part Number	SKT-1424L-001B-FXC	SKT-1333L-0000-FXC
Qty	1	1
Description	CPU carrier for 4th Gen Intel® Xeon® Scalable processors (MCC)	CPU carrier for 4th Gen Intel® Xeon® Scalable processors (XCC)

I/O Shield

Part Number	MCP-260-00042-1N
Qty	1
Description	STD I/O Shield for X13SEI-TF/-F with EMI Gasket

QRG

Part Number	MNL-2450-QRG
Qty	1
Description	Quick Reference Guide

SATA cable

Part Number	CBL-0044L • *e*Store
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

Optional Parts

TPM security module

Part Number	AOM-TPM-9670V
Qty	1
Description	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor