X13DEI

X13 Mainstream

Key Features

Support

5th/4th (350W TDP

Intel® C7

Up to 4T

4 PCIe 5.

2 PCIe 5.

Broadco

6 USB3.0

2 SATA D

2 M.2

6 NVMe p

8 SATA3.
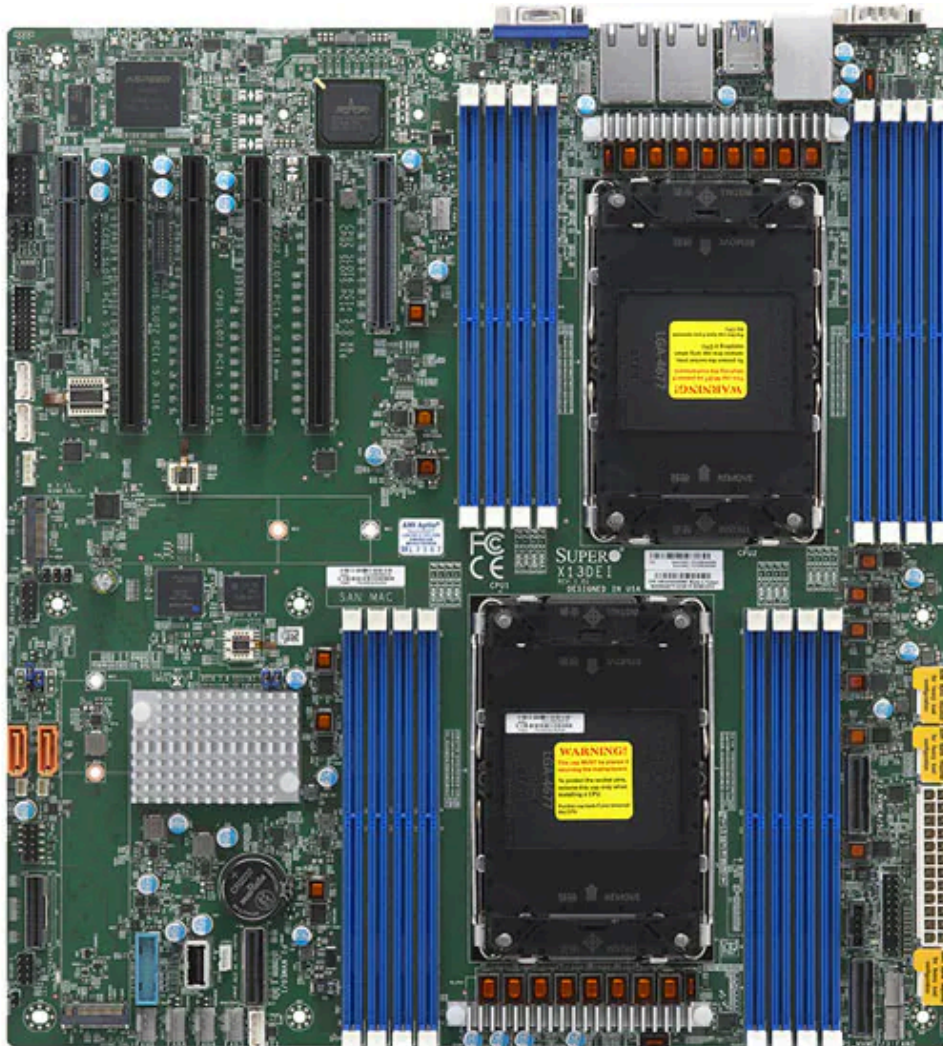
Optimize

SYS-621P-TR

SYS-741P-TR

SYS-221P-C9

Specifica

Product SKUs
MBD-X13DEI

Physical Stats
Form Factor
EATX
Dimension
12.1" x 13.05" (30.74cm x 33.15cm)

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)

Dual Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP
Core
Up to 64 cores

System Memory
Memory Capacity
16 DIMM slots
Up to 4TB 3DS ECC RDIMM, DDR5-5600MHz
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, 32GB, 64GB, 96(XCC Only)GB, 128GB, 256GB
RDIMM: Up to 256GB
Memory Voltage
1.1V
Error Detection
Corrects single-bit errors
Detects double-bit errors (using ECC memory)

On-Board Devices
Chipset
Intel® C741
SATA
Intel® C741 controller for 8 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Intel® C741 controller for 2 SATA3 (6 Gbps) ports; RAID 0,1
IPMI
ASPEED AST2600 BMC
Network Controllers
Dual LAN
Dual LAN with Broadcom BCM5720 1GBase-T

Input / Output
SATA
8 SATA3 (6Gbps) port(s)
2 SATA3 (6Gbps) port(s)
LAN
1 RJ45 Dedicated IPMI LAN port
USB
6 USB 3 port(s) (2 via header; 4 rear)
3 USB 2 port(s) (2 via header; 1 Type A)
Video Output
1 VGA D-Sub Connector port(s)
Serial Port
2 COM Port(s) (1 header; 1 rear)
TPM
1 TPM Header
Others
3 MCIO PCIe 5.0 x8

Expansion Slots
PCIe
2 PCIe 5.0 x8,
4 PCIe 5.0 x16
M.2
M.2 Interface: 2 PCIe 4.0 x2
Form Factor: 2280/22110
Key: M-Key

System BIOS
BIOS Type
AMI 32MB AMI UEFI
BIOS Features
ACPI 6.4
SMBIOS 2.8/3.5
UEFI 2.8A
Plug and Play (PnP)
PCI FW 3.2

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), SuperDoctor® 5 (/en/solutions/management-software/superdoctor), Super Diagnostics Offline (/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)

Security
Hardware
Trusted Platform Module (TPM) 2.0

PC Health Monitoring
Voltage
System temperature, PCH temperature, Memory temperature, CPU temperature, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support, +3.3V standby, Veore, Vmem, Peripheral temperature, Platform Environment Control Interface (PECI)/(TSI)
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
8x 4-pin fan headers (up to 8 fans)
Fan speed control
Overheat LED indication
8x fans with tachometer monitoring
Other Features
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
10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range
-40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range
8% - 90% (non-condensing)
Non Operating Relative Humidity Range
5% - 95% (non-condensing)

Parts List

Standard Parts (Bulk Package)

CPU carrier

Part Number	SKT-1333L-0000-FXC	SKT-1424L-001B-LTS
Qty	2	2
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-260-00042-3N
Qty	1
Description	-

SATA cable

Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

Standard Parts (Retail Package)

CPU carrier

Part Number	SKT-1333L-0000-FXC	SKT-1424L-001B-LTS
Qty	2	2
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-260-00042-3N
Qty	1
Description	-

QRG

Part Number	MNL-2509-QRG
Qty	1
Description	Motherboard Quick Reference Guide

SATA cable

Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)
Qty	2
Description	57.5 cm SATA FLAT S-S PBF

Optional Parts

TPM security module (optional, not included)

Part Number	AOM-TPM-9670V	AOM-TPM-9672V-FIPS	AOM-TPM-9672V (/products/accessori es/addon/AOM-TPM- 9672V.php)
Qty	1	1	1
Description	SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor	SPIcapable TPM 2.0 with Infineon 9672 controller with vertical form factor	SPIcapable TPM 2.0 with Infineon 9672 controller with vertical form factor

Global SKU (/en/products/SMC_global_skus)