

### X13 Mainstream

### **Key Features**

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

Support CXL

Intel® C741 Chipset

Up to 4TB 3DS ECC RDIMM, DDR5-4800MT/s(1DPC) in 16 DIMM slots

4 PCIe 5.0 x16

2 PCIe 5.0 x8

Broadcom BCM5720 Dual ports 1G LAN

6 USB3.0 and 3 USB2.0

2 SATA DOM ports

2 M 2

6 NVMe ports PCIe 5.0 x4 via 3 MCIO connectors

8 SATA3.0 ports

## **Optimized Servers**

 $\underline{SYS-621P-TR.(/de/products/system/mainstream/2u/sys-621p-tr)}. \underline{SYS-741P-TR.(/de/products/system/mainstream/2u/sys-741p-tr)}. \underline{SYS-221P-C9R.(/de/products/system/mainstream/2u/sys-221p-c9r)}. \underline{SYS-221P-C9R.(/de/products/sys-221p-c9r)}. \underline{SYS-221P-C9R.(/de/products/sys-221p-c9r)}. \underline{SYS-221P-C9R.(/de/products/sys-221p-c9r)}.$ 

# **Specifications**

Physical Stats

Form Factor EATX

Dimension

12.1" x 13.05" (30.74cm x 33.15cm)

Processor CPU

4th Gen Intel® Xeon® Scalable

processors (/de/support/resources/cpu-4th-

gen-intel-xeon-scalable)

Dual Socket LGA-4677 (Socket E)

supported, CPU TDP supports Up to 350W

Core Up to 60 cores

Up to 60 cores
System Memory
Memory Capacity
16 DIMM slots
Up to 4T8 3D5 ECC RDIMM, DDR5-4800MHz
Memory Type
4800/4400/4000 MT/5 ECC DDR5 RDIMM
(3D5) Up to 256GB of memory with speeds of up to 4800MT/5 (LDPC)
DIMM Sizes
16GB, 32GB, 64GB, 128GB, 256GB
RDIMM: 16GB, 32GB, 64GB, 128GB, 256GB
MemoryVoltage
1.1V

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 with Broadcom BCM5720 1GBase-T

**Dual LAN** 

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) (4 rear; 2 via header) 3 USB 2 port(s) (1 Type A; 2 via header)

3 USB 2 port(s) (1 Type A; 2 via h 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/managementsoftware/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

PC Health Monitoring
Voltage
System temperature, PCH temperature,
Memory temperature, PCH temperature,
Systamd with Systam

8x 4-pin fan headers (up to 8 fans)

8x4-pin ran neaders (up to 8 rans)
Fan speed control
Overheat LED indication
Skrans 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

management

Operating Environment
Operating Temperature Range
10°C - 35°C (50°F - 95°F)

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)

Qty Description

CPU carrier Part Number SKT-1424L-001B-LTS SKT-1333L-0000-FXC

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-260-00042-3N

Qty Description

SATA cable Part Number

CBL-0044L • @Store (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)

Description 57.5 cm SATA FLAT S-S PBF

Standard Parts (Retail Package)

CPU carrier Part Number SKT-1424L-001B-LTS

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

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

SKT-1333L-0000-FXC

Qty Description

I/O Shield Part Number MCP-260-00042-3N

QRG Part Number

MNL-2509-QRG

Qty Description Motherboard Quick Reference Guide

SATA cable Part Number

CBL-0044L • @Store (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)

Qty 57.5 cm SATA FLAT S-S PBF Description

Optional Parts

TPM security module (optional, not included)
Part Number AOM-TPM-9670V

Qty Description

SPI capable TPM 2.0 with Infineon 9670 controller with vertical form factor

Global SKU (/de/products/SMC\_global\_skus)