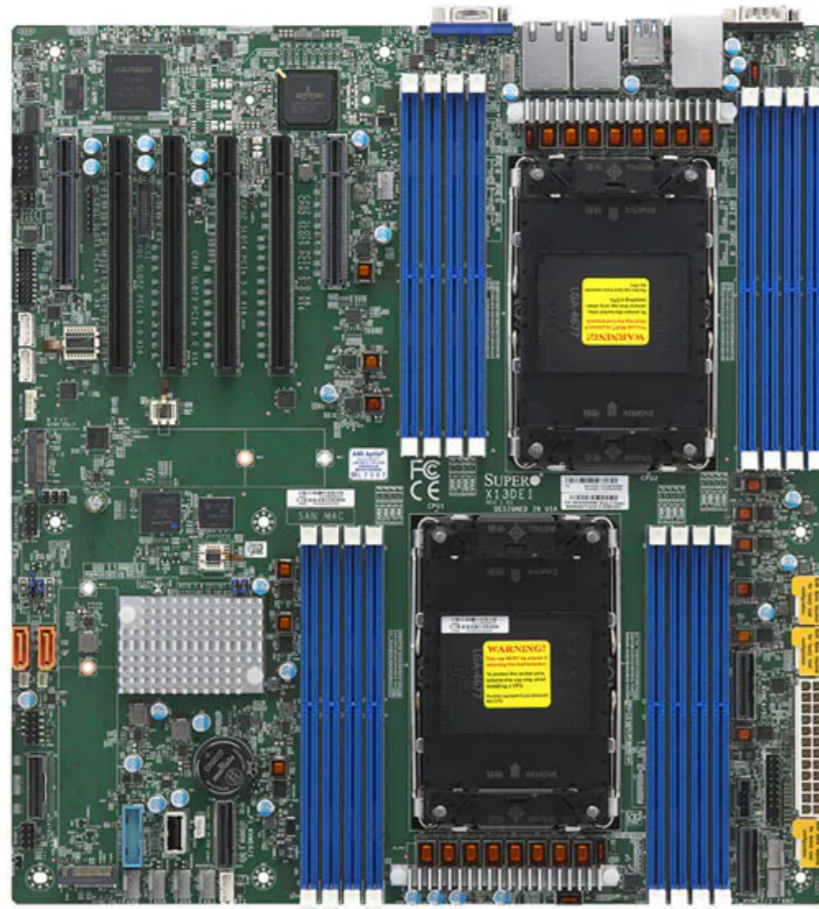» Products » Motherboards

X13DEI

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X13 Mainstream

Key Features

1. Support CXL
2. 5th/4th Gen Intel® Xeon® Scalable processors, Dual Socket LGA-4677 (Socket E) , CPU TDP supports up to 350W TDP
3. Intel® C741 Chipset
4. Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s in 16 DIMM slots
5. 4 PCIe 5.0 x16
6. 2 PCIe 5.0 x8
7. Broadcom BCM5720 Dual ports 1G LAN
8. 6 USB3.0 and 3 USB2.0
9. 2 SATA DOM ports
10. 2 M.2
11. 6 NVMe ports PCIe 5.0 x4 via 3 MCIO connectors
12. 8 SATA3.0 ports

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Optimized Servers

[SYS-621P-TR](#)   [SYS-741P-TR](#)   [SYS-221P-C9R](#)

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Specifications | Resources | Parts List

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®](#) / [4th Gen Intel® Xeon® Scalable processors](#) Dual Socket E (LGA-4677) 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, DDR5-5600MT/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, 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	[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	System temperature, PCH temperature, Memory temperature, CPU temperature, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support, +3.3V standby, Vcore, 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)

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