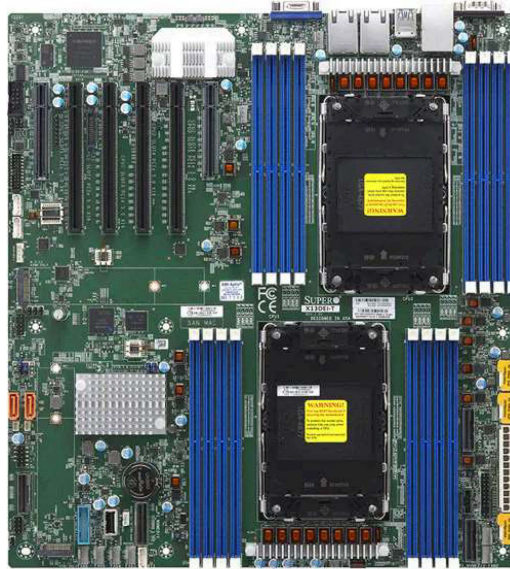# X13DEI-T



**X13 Mainstream**

## Key Features

Support CXL

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

Intel® C741 Chipset

Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s in 16 DIMM slots

4 PCIe 5.0 x16

2 PCIe 5.0 x8

Broadcom BCM57416 Dual ports 10G 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

# Specifications

**Product SKUs**
**MBD-X13DEI-T**

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

**Processor**
**CPU**

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

Dual Socket V0 (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 BCM57416 10GBase-T

**Input / Output**
**SATA**
8 SATA3 (6Gbps) port(s)
2 SATA3 (6Gbps) port(s)
**LAN**
1 RJ45 Dedicated IPMI LAN port
**USB**
3 USB 2 port(s) (2 via header; 1 Type A)
6 USB 3 port(s) (2 via header; 4 rear)
**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), 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**
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)