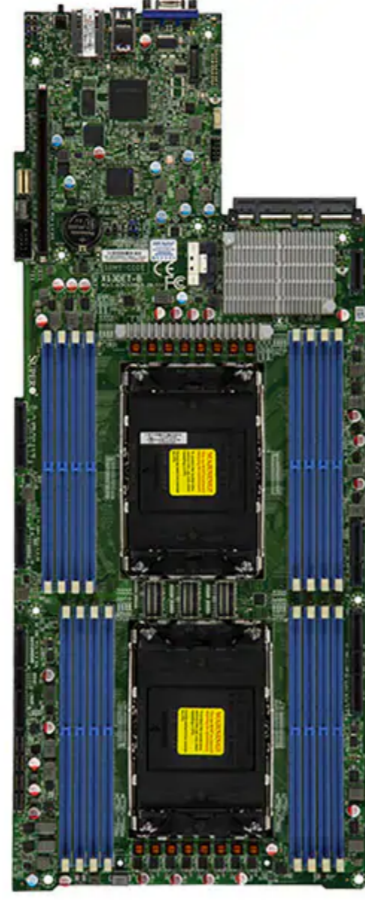


# X13DET-B (For SuperServer Only)



X13 BigTwin

### Key Features

1. Support CXL 1.0, 1.1
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. 2 PCIe 5.0 x16 slots supported by CPU1 (Slot1, Slot2)
6. 1 PCIe 5.0 x16 slots supported by CPU2 (SXB1) for NVMe, SATA, SAS storage card(s)
7. 1 PCIe 5.0 x8 for 2 NVMe M.2 connections on AOC supported by CPU1 (SXB5)
8. 2 PCIe 5.0 x8 slots supported by CPU1 (SXB3, SXB4) for SAS 3.0, NVMe storage card(s)
9. 3 PCIe 5.0 x8 connector supported by CPU1 and CPU2 (NS1, NS2) NVMe storage card(s)
10. 2 SATA headers support 12 SATA 3.0 connections
11. UID/BMC Reset Switch and UID\_LED/BMC LED Indicator
12. Support for TPM (JTPM1)



Contact Us

### Optimized Servers

- [SYS-221BT-HNR](#) [SYS-221BT-HNTR](#) [SYS-221BT-HNC8R](#) [SYS-221BT-HNC9R](#)
- [SYS-221BT-DNTR](#) [SYS-221BT-DNC8R](#) [SYS-621BT-HNTR](#)
- [SYS-621BT-HNC8R](#) [SYS-621BT-DNTR](#) [SYS-621BT-DNC8R](#)

## Specifications Resources Parts List

### Product SKUs

**MBD-X13DET-B**

### Physical Stats

<b>Form Factor</b>	Proprietary
<b>Dimension</b>	7.62" x 18.8" (19.36cm x 47.75cm)

### Processor

<b>CPU</b>	<a href="#">5th Gen Intel® Xeon®</a> / <a href="#">4th Gen Intel® Xeon® Scalable processors</a> and Intel® Xeon® Max Series processors Dual Socket E (LGA-4677) supported, CPU TDP supports Up to 350W TDP SP XCC, SP MCC, and MAX Series (HBM) SKUs are supported
<b>Core</b>	Up to 64 cores

### System Memory

<b>Memory Capacity</b>	16 DIMM slots Up to 4TB 3DS ECC RDIMM, DDR5-5600MT/s
<b>Memory Type</b>	5600/5200/4800/4400/4000 MT/s ECC DDR5 RDIMM (3DS) Up to 256GB of memory with speeds of up to 5600MT/s(1DPC)
<b>DIMM Sizes</b>	16GB, 32GB, 64GB, 96(XCC Only)GB, 128GB, 256GB RDIMM: Up to 256GB
<b>Memory Voltage</b>	1.1V
<b>Error Detection</b>	Corrects single-bit errors Detects double-bit errors (using ECC memory)

### On-Board Devices

<b>Chipset</b>	Intel® C741
<b>SATA</b>	Intel® C741 controller for 4 SATA3 (6 Gbps) ports Intel® C741 controller for 8 SATA3 (6 Gbps) ports
<b>Network Controllers</b>	AIOM for LAN

### Input / Output

<b>USB</b>	2 USB 3.2 Gen1 port(s) (2 rear type A)
<b>Video Output</b>	1 VGA D-Sub Connector port(s)
<b>Serial Port</b>	1 COM Port(s) (1 header)
<b>TPM</b>	1 TPM Header
<b>Others</b>	1 AIOM PCIe 5.0 x16 (10Gbps)

### Expansion Slots

<b>PCIe</b>	1 PCIe 5.0 x16 for Left riser card support, 1 PCIe 5.0 x16 for Right riser card support, 1 PCIe 5.0 x8 connector for SMC add-on cards, 2 PCIe 5.0 x8 Proprietary Storage adapter Slot, 3 PCIe 5.0 x8, NS-HD connector, 1 PCIe 5.0 x16 AIOM Networking Slot, AIOM slots Superset of OCP 3.0 Expansion
<b>M.2</b>	M.2 Interface: 2 PCIe 3.0 x4 Form Factor: 2280, 22110 Key: M-Key SXB5 supports 2 M.2 devices in 22110 form factor with 2x PCIe 4.0x4, or 2 M.2 devices in 2280 form factor with 2x PCIe 3.0x4

### System BIOS

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

### Management

<b>Software</b>	<a href="#">SuperCloud Composer</a> , <a href="#">Supermicro Server Manager (SSM)</a> , <a href="#">Supermicro Power Manager (SPM)</a> , <a href="#">Supermicro Update Manager (SUM)</a> , <a href="#">Supermicro SuperDoctor® 5 (SD5)</a> , <a href="#">Super Diagnostics Offline (SDO)</a> , <a href="#">Supermicro Thin-Agent Service (TAS)</a> , <a href="#">SuperServer Automation Assistant (SAA) New!</a> , <a href="#">Plug-ins for 3rd Party Software</a> , <a href="#">IPMI Utilities</a>
-----------------	---

### PC Health Monitoring

<b>Voltage</b>	VBAT, System level control, Supports system management utility, Monitors CPU voltages, +5V, +3.3V, +12V, 2 fans with tachometer status monitoring, +12V Standby
<b>FAN</b>	2x 4-pin fan headers (up to 2 fans) Node Manager Support
<b>Other Features</b>	UID, M.2 NGFF connector, Control of power-on for recovery from AC power loss, ACPI power management, CPU thermal trip support, Temperature of CPU, PCH, System, DIMM, Peripheral, PECL, Chipset Voltage, UID/Remote UID, CPU / System Overheat LED, Monitoring for CPU and chassis environment

### Operating Environment

<b>Operating Temperature Range</b>	10°C - 35°C (50°F - 95°F)
<b>Non-Operating Temperature Range</b>	-40°C - 70°C (-40°F - 158°F)
<b>Operating Relative Humidity Range</b>	8% - 90% (non-condensing)
<b>Non Operating Relative Humidity Range</b>	5% - 95% (non-condensing)

Certain products may not be available in your region

Global SKU English

### About Us

- Company Profile
- Green Computing
- Investor Relations
- Careers
- Site Map
- Glossary

### News

- Press Releases
- Supermicro in the News
- Product Reviews
- Events
- Webinars

### Resources

- Product Briefs
- Solution Briefs
- Success Stories
- Videos
- White Papers
- Thought Leadership
- MySupermicro
- Data Center Stories

### Connect & Follow

- Locations
- Contact Us
- Newsletter Sign-up

