» Products » Motherboards

B13DET (For SuperServer Only)

🖶 Print

8U SuperBlade

Key Features

1. Support HBM and CXL
2. 5th/4th Gen Intel® Xeon® Scalable processors, Dual Socket LGA-4677 (Socket E) supported, 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. 3 SATA3 Ports or 2 NVME + 1 SATA3 ports
6. 1 M.2
7. Dual LAN with 25GbE with Mellanox ConnectX-4 Lx EN

...

Optimized Servers

[SBI-421E-1T3N](#)   [SBI-421E-5T3N](#)

Contact Us

Specifications	Resources	Parts List

Product SKUs

MBD-B13DET

Physical Stats

Form Factor	Proprietary
Dimension	6.3" x 18.3" (16cm x 46.48cm)

Processor

CPU	[5th Gen Intel® Xeon®](#) / [4th Gen Intel® Xeon® Scalable processors](#) and Intel® Xeon® Max Series processors Dual Socket Socket E (LGA-4677) supported, CPU TDP supports Up to 350W TDP SP XCC, SP MCC, and MAX Series (HBM) SKUs are supported
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 2 SATA3 ports
IPMI	ASPEED AST2600 BMC
Graphics	1 Aspeed AST2600 BMC port(s)
Network Controllers	Dual LAN with 25GbE with Mellanox ConnectX-4 Lx EN

Input / Output

USB	1 USB 3 port(s) (1 type A)
TPM	1 TPM Header

Expansion Slots

PCIe	2 PCIe 5.0 x16 Mezzanine card connector
M.2	M.2 Interface: 1 PCIe 5.0 x4 Form Factor: 2280 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](#)

Security

Hardware	Trusted Platform Module (TPM) 2.0

PC Health Monitoring

Voltage	VBAT, System level control, Supports system management utility, Monitors CPU voltages, Chipset Voltage, Chassis intrusion header, 5 -fan status, +5V standby, +5V, +3.3V, +12V, Memory Voltages
LED	UID/Remote UID CPU / System Overheat LED
Temperature	CPU thermal trip support Thermal Monitor 2 (TM2) support PECI
FAN	Overheat LED indication
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, Temperature of CPU, PCH, System, DIMM, Peripheral

Operating Environment

Operating Temperature Range	10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range	-40°C - 60°C (-40°F - 140°F)
Operating Relative Humidity Range	8% - 90% (non-condensing)
Non Operating Relative Humidity Range	5% - 95% (non-condensing)

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