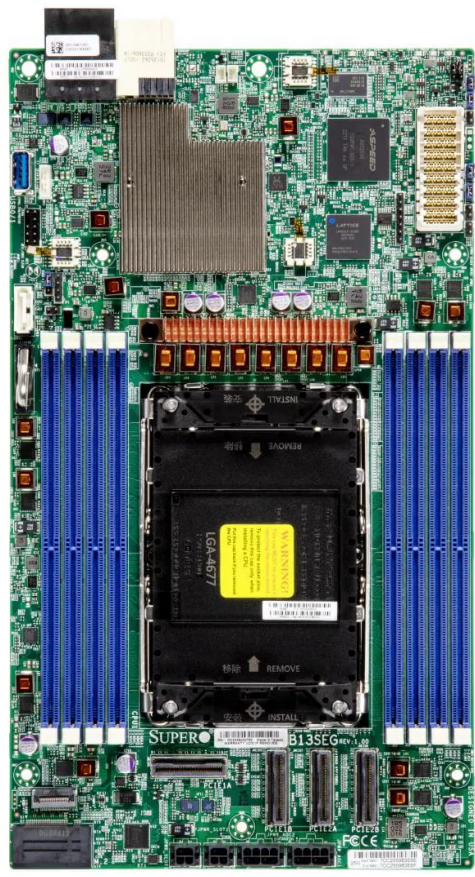# B13SEG (For SuperServer Only)

🖨 **Print**

8U SuperBlade

Key Features

1. 5th/4th Gen Intel® Xeon® Scalable processors, Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 270W (air-cooled) or 350W (liquid-cooled)
2. Intel C741® Chipset
3. Up to 2TB ECC RDIMM/RDIMM 3DS DDR5-5600MT/s in 8 DIMM slots
4. 4x PCIe 5.0 x8 MCIO connectors for GPU Riser/E1S/NVMe/AIOM add on module
5. Dual LAN with 25GbE with Mellanox ConnectX-4 Lx EN
6. Dual M.2 M-Key 2280 PCIe 5.0 Connector
7. Mezzanine PCIe 5.0 x16 connector for Mezzanine Daughter Card

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Optimized Servers

[SBI-411E-1G](#)   [SBI-411E-5G](#)

Contact Us

Specifications	Resources	Parts List

Product SKUs

MBD-B13SEG

Physical Stats

Form Factor	Proprietary
Dimension	6.3" x 11.169" (16cm x 28.37cm)

Processor

CPU	[5th Gen Intel® Xeon®](#) / [4th Gen Intel® Xeon® Scalable processors](#) Single Socket Socket E (LGA-4677) supported, CPU TDP supports Up to 350W TDP *BIOS 2.1 or above is required to support 5th Gen Intel® Xeon® Scalable processors
Core	Up to 60 cores

System Memory

Memory Capacity	8 DIMM slots Up to 2TB 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, 128GB, 256GB RDIMM: 16GB, 32GB, 64GB, 128GB, 256GB
Memory Voltage	1.1V
Error Detection	Corrects single-bit errors Detects double-bit errors (using ECC memory)

On-Board Devices

Chipset	Intel® C741
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	1 PCIe 5.0 x16 Mezzanine card connector, 4 PCIe 5.0 x8 MCIO connector, For GPU Riser/E1S/NVMe/AIOM add on module
M.2	M.2 Interface: 2 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	System temperature, PCH temperature, Memory temperature, CPU temperature, +5V standby, +3.3V, +12V, +3.3V standby, Vmem, Peripheral temperature, +12V Standby, Vcore, Temperature of GPU, NvMe, SAS HDD
LED	UID/Remote UID Power LED CPU / System Overheat LED LAN activity LED HDD Activity LED
Temperature	CPU thermal trip support Platform Environment Control Interface (PECI)/(TSI)

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)

Certain products may not be available in your region

Global SKU 🌐 English