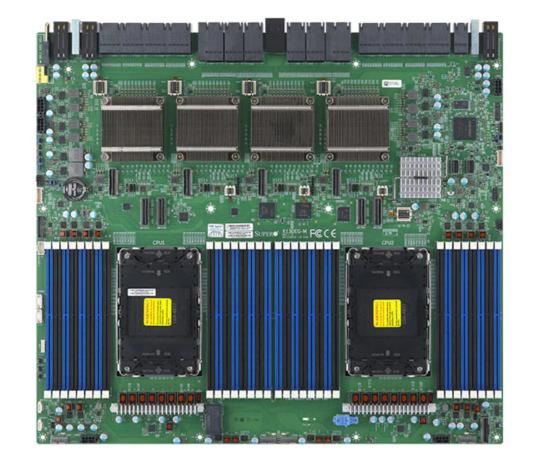» Products » Motherboards

X13DEG-M (For SuperServer Only)

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X13 Delta Next

Key Features

1. Support HBM
2. 5th/4th Gen Intel® Xeon® Scalable processors and Intel® Xeon® Max series processors, Dual Sockets LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP
3. Intel C741® Chipset
4. Up to 8TB 3DS ECC RDIMM, DDR5-5600MT/s in 32 DIMM slots
5. 12 PCIe 5.0 MCIO x8

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Optimized Servers

SYS-421GE-TNHR2-LCC

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Specifications | Resources | Parts List

Product SKUs

MBD-X13DEG-M

Physical Stats

Form Factor	Proprietary
Dimension	15" x 17" (38.1cm x 43.18cm)

Processor

CPU	5th Gen Intel® Xeon® / 4th Gen Intel® Xeon® Scalable processors 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
Core	Up to 64 cores

System Memory

Memory Capacity	32 DIMM slots Up to 8TB 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) or 4400 MT/s (2DPC)
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 ports
Network Controllers	N/A

Expansion Slots

PCIe	1 PCIe 5.0 x16 AIOM, 12 PCIe 5.0 x8 PCIe5.0 MCIO connector
M.2	M.2 Interface: 2 PCIe 3.0 x2 Form Factor: 22110, 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

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	Monitoring for CPU and chassis environment CPU thermal trip support Thermal Monitor 2 (TM2) support PECI
FAN	2x 4-pin fan headers (up to 2 fans) Fan speed control 5 fans with tachometer status monitoring 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

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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