



X13SEM-TF



Key Features

1. 5th/4th Gen Intel® Xeon® Scalable processors, Single Socket LGA-4677 (Socket E) supported, CPU TDP supports Up to 350W TDP
2. Intel C741® Chipset
3. Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s (1DPC) in 8 DIMM slots
4. 8 NVMe ports PCIe 5.0 x4 via 4 MCIO connectors
5. 1 PCIe 5.0 x8,
2 PCIe 5.0 x16,
4 PCIe 5.0 x8 MCIO connectors
- M.2 Interface:** 2 PCIe 4.0 x2
- M.2 Form Factor:** 2280, 22110
- M.2 Key:** M-Key
- ...

Optimized Servers

[SYS-211E-FRN2T](#)

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Specifications		Resources	Parts List
Product SKUs			
MBD-X13SEM-TF			
Physical Stats			
	Form Factor	microATX	
	Dimension	9.6" x 9.6" (24.38cm x 24.38cm)	
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 64 cores	
System Memory			
	Memory Capacity	8 DIMM slots Up to 2TB 3DS ECC RDIMM, DDR5-5600MT/s **24GB & 48GB DIMM only support 1 DPC. *24GB/48GB/96GB DDR5 DIMMs with 24Gb chip are only supported by 5th and 4th XCC Gen Intel® Xeon-SP CPU.	
	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, 24GB, 32GB, 48GB, 64GB, 96GB, 128GB, 256GB	
	Memory Voltage	1.1V	
	Error Detection	Corrects single-bit errors	
On-Board Devices			
	Chipset	Intel® C741	
	SATA	Intel® C741 controller for 10 SATA3 (6 Gbps) ports; RAID 0,1,5,10	
	IPMI	ASPEED AST2600 BMC	
	Graphics	1 Aspeed AST2600 BMC port(s)	
	Network Controllers	Dual LAN with 10GBase-T with Intel® X550	
Input / Output			
	SATA	10 SATA3 (6Gbps) port(s)	
	LAN	2 RJ45 10 Gigabit Ethernet LAN ports 1 RJ45 Dedicated IPMI LAN port	
	USB	6 USB 2.0 port(s) (4 via header; 2 rear) 5 USB 3.2 Gen1 port(s) (2 via header; 2 rear; 1 type A)	
	Video Output	1 VGA D-Sub Connector port(s)	
	Serial Port	1 COM Port(s) (1 rear)	
	DOM	2 SATA DOM (Disk on Module) power connector support	
	TPM	1 TPM Header	

Expansion Slots	
PCIe	2 PCIe 5.0 x16, 1 PCIe 5.0 x8, 4 PCIe 5.0 x8 MCIO connector
M.2	M.2 Interface: 2 PCIe 4.0 x2 Form Factor: 2280/22110 Key: M-Key
System BIOS	
BIOS Type	AMI UEFI
BIOS Features	ACPI 6.4 SMBIOS 3.5 UEFI 2.8 or above
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
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	5x 4-pin fan headers (up to 5 fans) Fan speed control 5 fans with tachometer status monitoring Overheat LED indication
Other Features	WOL, UID, Node Manager Support, M.2 NGFF connector, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ACPI power management

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