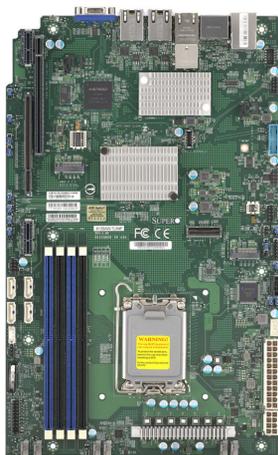» Products » Motherboards

X13SAW-TLN4F **New**

🖶 **Print**

**Embedded
14th/13th/12th Gen CPU, DDR5, PCIe 5.0, Dual 10G LAN, Dual 2.5G LAN**

Key Features

1. 14th/13th/12th Generation Intel® Core™ i9/i7/i5/i3/Pentium/Celeron Processor, Single Socket LGA-1700 supported, CPU TDP supports Up to 125W TDP
2. Intel® R680E
3. Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR5-4400MHz, in 4 DIMM slots
4. 1 PCIe 5.0 x16 slot,
   1 PCIe 4.0 x4 slots,
   2 PCIe 4.0 x4 MCIO
   1 M.2 M-Key 2280 (PCIe 3.0 x4)
   1 M.2 M-Key 2280/22110 (PCIe 4.0 x4)
5. Dual 2.5 Gigabit LAN with Intel® Ethernet i226 LAN controller,
   Dual 10 Gigabit LAN with Intel® Ethernet X550-AT2 LAN controller
6. Intel® R680E Controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
7. 2 Independent Display Ports (2 DP1.4)
8. Supports 12V DC power input
9. Onboard TPM2.0

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Specifications	Resources	Parts List

Product SKUs

MBD-X13SAW-TLN4F

Physical Stats

Form Factor	Proprietary Embedded
Dimension	8" x 13" (20.32cm x 33.02cm)

Processor

CPU	14th/13th/ 12th Generation Intel Core i9/Core i7/Core i5/Core i3/Pentium/Celeron Processor Single Socket V0 supported
Core	Up to 24 cores

System Memory

Memory Capacity	4 DIMM slots Up to 128GB Unbuffered ECC/non-ECC UDIMM, DDR5-4400MT/s *Supports up to 128GB of DDR5 UDIMM with speeds of up to 4400MT/s with one DIMM, or 4000MT/s with two DIMM single rank, or 3600MT/s with two DIMM dual rank in four memory slots
Memory Type	4400/4000/3600 MT/s
DIMM Sizes	4GB, 8GB, 16GB, 32GB
Memory Voltage	1.1V

On-Board Devices

Chipset	Intel R680E
SATA	Intel R680E controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
Network Controllers	Dual LAN with 10GBase-T with Intel® X550 Dual LAN with Intel® i226

Input / Output

SATA	4 SATA3 port(s)
USB	2 USB 2.0 port(s) (2 via header) 4 USB 3.2 Gen1 port(s) (2 via header; 2 rear type A) 1 USB 3.2 Gen2 port(s) (1 via header)
Video Output	1 VGA port(s), 2 DP (DisplayPort) port(s)
Serial Port	1 COM Port(s) (1 header)
TPM	TPM TPM 2.0 onboard

Expansion Slots

PCIe	1 PCIe 5.0 x16, 1 PCIe 4.0 x4
M.2	M.2 Interface: 1 PCIe 4.0 x4; 1 PCIe 3.0 x4 Form Factor: 22110, 2280, 2280 Key: M-Key, M-Key

System BIOS

BIOS Type	AMI UEFI
BIOS Features	ACPI 6.1 SMBIOS 3.0 or later PCI FW 3.0 UEFI 2.7 RTC (Real Time Clock) Wakeup

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, Memory temperature, CPU temperature, Chipset Voltage, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.8V, +1.5V, +1.35V, BMC/IPMI Heartbeat LED, Dual Cooling Zone, UID, 6 fans with tachometer status monitoring
LED	Power LED
Temperature	Monitoring for CPU and chassis environment CPU thermal trip support
Other Features	RoHS, M.2 NGFF connector, Chassis intrusion detection, ATX Power connector, ACPI power management, 12V DC or ATX Power Source
FAN	6x 4-pin fan headers (up to 6 fans)

Operating Environment

Operating Temperature Range	0°C - 60°C (32°F - 140°F)
Non-Operating Temperature Range	-40°C - 85°C (-40°F - 185°F)
Operating Relative Humidity Range	10% - 85% (non-condensing)
Non Operating Relative Humidity Range	10% - 95% (non-condensing)

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