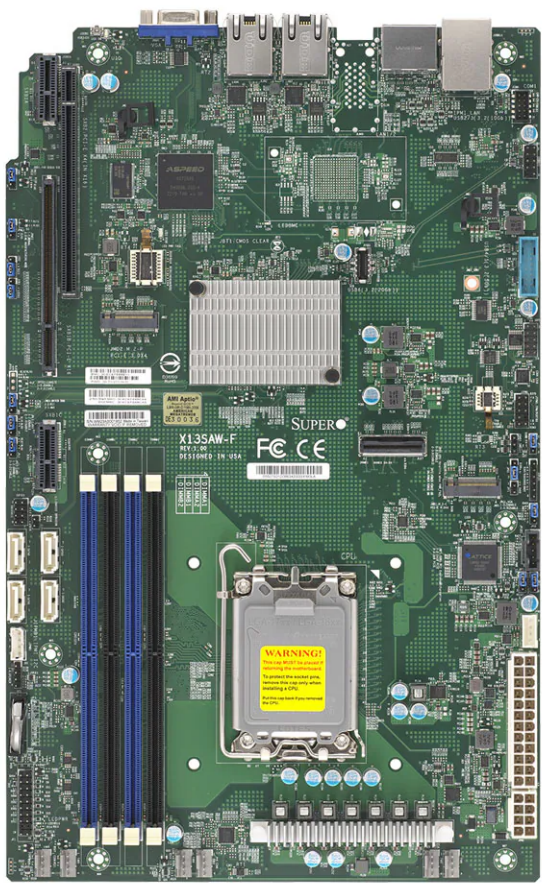




X13SAW-F

New



Embedded

14th/13th/12th Gen CPU, DDR5, PCIe 5.0, 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
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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Optimized Servers

[SYS-111AD-WRN2](#)

Specifications		Resources	Parts List
Product SKUs			
MBD-X13SAW-F			
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		
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 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		
System Management Software	Wake-on-LAN, Watchdog, KVM with dedicated LAN		
Power Configurations	ACPI Power Management, ATX Power connector, +12V DC Power Input		
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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