



**Embedded
High Performance
PCIe 5.0 x16 slot
4 Independent Displays**

Key Features

- 13th/12th Generation Intel® Core™ i9/i7/i5/i3/Pentium/Celeron Processor, Single Socket LGA-1700 supported, CPU TDP supports Up to 125W TDP
- Intel® Q670E
- Up to 128GB Unbuffered non-ECC UDIMM, DDR5-4400MHz, in 4 DIMM slots
- 1 PCIe 5.0 x16 slot,
- 2 PCIe 4.0 x4 slots,
- 1 PCIe 4.0 x4 Oculink port
- M.2 Interface:** 1 PCIe 4.0 x4
- M.2 Form Factor:** 2280/22110
- M.2 Key:** M-Key
- Dual 2.5 Gigabit LAN with Intel® Ethernet i225LM LAN controller [AMT/vPro]
- Intel® Q670E Controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10
- 4 Independent Displays (2 DP++ ports, 1 HDMI 2.0b port, 1 DVI - D port)
- Supports 12V DC power input
- Onboard TPM2.0

Specifications

Product SKUs MBD-X13SAZ-Q
Physical Stats Form Factor Micro-ATX Dimension 9.6" x 9.6" (24.38cm x 24.38cm)
Processor CPU 13th/ 12th Generation Intel Core i9/Core i7/Core i5/Core i3/Pentium/Celeron Processor Single Socket LGA-1700 supported Core Up to 24 cores
System Memory Memory Capacity 4 DIMM slots Up to 128GB Unbuffered non-ECC UDIMM, DDR5-4400MHz *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 Q670E SATA Intel Q670E controller for 4 SATA3 (6 Gbps) ports; RAID 0,1,5,10 Audio ALC 888S HD Audio Network Controllers Dual LAN with Intel® Ethernet i225LM
Input / Output SATA 4 SATA3 (6Gbps) port(s) USB 4 USB 2.0 port(s) (4 via header) 6 USB 3.2 Gen2 port(s) (4 rear type A; 2 via header) 2 USB 3.2 Gen1 port(s) (2 via header) Video Output 1 DVI - D port(s), 1 HDMI 2.0b port(s), 2 DP (DisplayPort) port(s) Serial Port 4 COM Port(s) (2 header RS232/422/485; 2 header RS232) TPM TPM TPM 2.0 onboard

Expansion Slots PCIe 1 PCIe 5.0 x16, 2 PCIe 4.0 x4 (in x8 slot) M.2 M.2 Interface: 1 PCIe 4.0 x4 Form Factor: 2280/22110 Key: M-Key
System BIOS BIOS Type AMI UEFI BIOS Features ACPI 6.1 SMBIOS 3.0 or later PCI FW3.0 UEFI 2.7 RTC (Real Time Clock) Wakeup
Management System Management Software Wake-on-LAN, Watchdog Power Configurations ACPI Power Management, ATX Power connector, +12V DC Power Input
Security Hardware Trusted Platform Module (TPM) 2.0
PC Health Monitoring Voltage VBAT, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, +1.8V, +1.5V, +1.35V, 5 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 5x4-pin fan headers (up to 5 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 5% - 95% (non-condensing)

Parts List

Standard Parts (Bulk Package)

I/O Cables

Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044.html),
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Qty	2
Description	57.5CM SATA FLAT S-S PBF

I/O Shield

Part Number	MCP-260-00177-0N
Qty	1
Description	Standard I/O Shield for X13SAZ with EMI Gasket

Standard Parts (Retail Package)

I/O Cables

Part Number	CBL-0044L • eStore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044.html),
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Qty	4
Description	57.5CM SATA FLAT S-S PBF

I/O Shield

Part Number	MCP-260-00177-0N
Qty	1
Description	Standard I/O Shield for X13SAZ with EMI Gasket

QRG

Part Number	MNL-2477-QRG
Qty	1
Description	Motherboard Quick Reference Guide

Optional Parts

1U I/O Shield

Part Number	MCP-260-00178-0N
Qty	-
Description	1U I/O Shield For SC515/813/815

1U LHS Riser Card for CSE-510

Part Number	RSC-S-6G5
Qty	-
Description	1U LHS Standard Riser card with one PCIe 5.0 X16 slot.,H

4U CPU Heat Sink for Socket H(optional, not included)

Part Number	SNK-P0086AP4 • eStore (https://store.supermicro.com/4u-active-cpu-cooler-x13-snk-p0086ap4.html),
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Qty	-
Description	CPU Active Heatsink for 4U chassis

COM Port Cable

Part Number	CBL-CDAT-0604 • eStore (https://store.supermicro.com/2-9-pin-to-20pin-cable-cbl-cdat-0604.html),
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Qty	-
Description	40CM Dual Serial Port Cable with bracket

Passive heatsink

Part Number	SNK-P0086
Qty	-
Description	CPU Passive Heatsink for 1U chassis

USB Cable

Part Number	CBL-CUSB-0835 • eStore (https://store.supermicro.com/supermicro-usb-3-1-b-key-to-usb-3-0a-female-x2-55cm-cable-cbl-cusb-0835.html),
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Qty	-
Description	Dual 55cm USB 3.2 Type A cable

Global SKU (/de/products/SMC_global_skus)