

Workstation

Key Features

 $12 th/13 th~Generation~Intel ^{\tiny{\texttt{0}}}~Core^{\texttt{TM}}~i3/i5/i7/i9~Processors,~Single~Socket~LGA-1700~supported,~Up~to~150W~TDP~Intelligent to 150 the contract of the contrac$

Intel® W680

128GB Unbuffered ECC/non-ECC UDIMM, DDR5-4400MT/s, 4 DIMM Slots

2 PCIe 5.0 x16 slots (16/NA or 8/8), 2 PCIe 3.0 x4 1 5V PCI 32bit

M.2 Interface: 3 PCIe 4.0 x4 (RAID 0, 1, 5) **M.2 Form Factor:** 2280 **M.2 Key:** M-Key

 $Single\ LAN\ with\ Intel^{\scriptsize @}\ Ethernet\ i225V\ Single\ LAN\ with\ Intel^{\scriptsize @}\ PHY\ I219LM\ LAN\ controller\ for\ AMT/vPro$

8 SATA3 (6 Gb, RAID 0, 1, 5, 10)

1 DP 1.4a, 1 HDMI 2.0b, 1 VGA, 1 DVI-D, 1 Dedicated IPMI LAN Port

IPMI Supported

Specifications

Product SKUs MBD-X13SAE-F

Physical Stats

Form Factor

Dimension

12" x 9.6" (30.48cm x 24.38cm)

Processor

CPU 12th/13th Gen Intel® Core™ i3/i5/i7/i9

Processors Single Socket LGA-1700 (Socket VO)

supported, CPU TDP supports Up to 150W

Core

Up to 24 (8+16) cores System Memory

Memory Capacity
4 DIMM slots
Up to 192GB Unbuffered ECC/non-ECC
UDIMM, DDR5-4400MHz

Memory Type 4400/4000/3600 MT/s 192GB DIMM Sizes 8GB, 16GB, 24GB, 32GB, 48GB

UDIMM: 8GB, 16GB, 24GB, 32GB, 48GB

Memory Voltage

On-Board Devices

Chipset Intel® W680

SATA
Intel® W680 controller for 8 SATA3 (6 Gbps)
ports; RAID 0, 1, 5, 10

IPMI

ASPEED AST2600 BMC

Audio ALC 888S HD Audio **Network Controllers**

Single LAN with Intel® PHY I219LM LAN controller, for AMT/vPro
Single LAN with Intel® Ethernet i225LM Single LAN with Realtek RTL8211F PHY

(Dedicated for IPMI), Dedicated LAN for IPMI

Input / Output LAN 1 RJ45 Dedicated IPMI LAN port

1 RJ45 Gigabit Ethernet LAN ports

1 RJ45 2.5 Gigabit Ethernet LAN port USB 4 USB 2.0 port(s) (2 rear; 2 via header)

2 USB 3.2 Gen2x2 port(s) (1 rear type C; 1

via header)
3 USB 3.2 Gen2x1 port(s) (3 rear type A)
3 USB 3.2 Gen1x1 port(s) (2 via header; 1

Vertical Type A)

Video Output

1 VGA port(s), 1 DVI - D port(s), 1 DP 1.4a
port(s), 1 HDMI 2.0b port(s)

Serial Port

1 COM Port(s) (1 header)

1 TPM Header

2 PCIe 5.0 x16 slots (16/NA or 8/8), 2 PCle 3.0 x4

M.2 Interface: 3 PCIe 4.0 x4, RAID 0, 1, 5 Form Factor: 2280

Key: M-Key

1 5V PCI 32bit

System BIOS BIOS Type 256MB SPI Flash with AMI BIOS

BIOS Features

ACPI 6.0 Plug and Play (PnP)

BIOS rescue hot keys

Riser card auto-detection support

SMBIOS 3.0 or later

Management Software

Redfish API

(/manuals/other/RedfishRefGuide. pdf), Supermicro Server Manager

(SSM) (/solutions/SMS_SSM.cfm),

Supermicro Update Manager

(SUM) (/solutions/SMS_SUM.cfm),

SuperDoctor® 5

(/en/solutions/managementsoftware/superdoctor), Super

<u>Diagnostics Offline</u>

(/en/solutions/managementsoftware/super-diagnostics-

offline), KVM with dedicated LAN

(/manuals/other/BMC IPMI X13

H13.pdf#page=112), IPMI 2.0

(/solutions/IPMI.cfm)

System Management Soft

SuperDoctor 5
Power Configurations

Power-on mode for AC power recovery, ACPI Power Management, Power button override mechanism, Wake-on-LAN

Security

Hardware Trusted Platform Module (TPM) 2.0

PC Health Monitoring Voltage

VBAT. System temperature, CPU

vbA, system temperature, 3.3V standby, 1.05 (PCH), +5V standby, +5V, +3.3V, +12V, CPU thermal trip support, +1.8V PCH LED

Power LED
Catastrophic Error LED
FAN

5x4-pin fan headers (up to 5 fans)

Fan speed control Overheat LED indication

Other Features CPU thermal trip support for processor protection, Control of power-on for recovery from AC power loss, Chassis intrusion detection, ATX Power conne

ACPI power management, 8-pin 12v DC power connector

Operating Environment

Operating Temperature Range 0°C - 50°C (32°F - 122°F) Non-Operating Temperature Range

-20°C - 60°C (-4°F - 140°F)

Parts List

Standard Parts (Bulk Package)

I/O Shield

Part Number MCP-260-00151-0N

Qty Description

IO shield

SATA Cables Part Number

CBL-0044L-05tore (https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)

Qty

Description SATA Cables

Standard Parts (Retail Package)

Part Number MCP-260-00151-0N Qty Description IO shield

Quick Reference Guide

Part Number MNL-2425-QRG

Qty

Quick Reference Guide

Description SATA Cables Part Number

CBL-0044L • **€Store**

(https://store.supermicro.com/supermicro-sata-flat-straight-straight-57-5cm-cable-cbl-0044l.html)

Qty Description SATA Cables

Optional Parts

TPM security module (optional, not included) Part Number AOM-TPM-9670V

Description

TPM for Intel Core CPU

Global SKU (/de/products/SMC_global_skus)