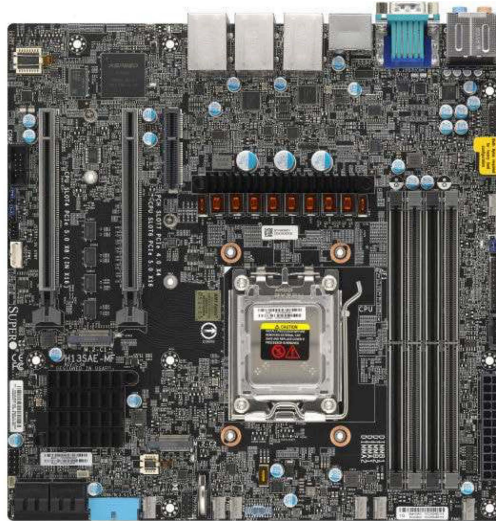# H13SAE-MF

Key Features

AMD EPYC™ 4004 series and Ryzen™ 7000 Series Processors

single socket LGA-1718 (socket AM5), up to 170W.

Up to 192GB ECC/non-ECC Unbuffered DIMM, DDR5-5200MHz, in 4 DIMM slots.

2 PCIe 5.0 x16 (16/NA or 8/8), support up to 2 GPU cards(mechanical is up to 1 triple-width GPU card or 2 double-width GPU cards)

1 PCIe 4.0 x4

2x 1Gbit LAN port(i210 AT); a dedicated Realtek 1Gbit LAN for IPMI.

Micro-ATX form factor

1 USB 3.2 Gen2x2 ports (type C, 20Gb, rear); 5 USB 3.2 Gen2 ports(2 Type C, rear, support DP 1.4 Alt mode)

1 HDMI 2.0 port, 1 DP 1.4a port

M.2 Interface: 2 PCIe 5.0 x4 (RAID 0 & 1)

M.2 Form Factor: 2280/22110

M.2 Key: M-Key

Optimized Servers

AS -1015A-MT (/en/products/system/mainstream/1u/as-1015a-mt)

AS -3015A-I (/en/products/system/mainstream/tower/as-3015a-i)

AS -2015A-TR (/en/products/system/mainstream/2u/as-2015a-tr)

AS -C531i-11102U (/en/products/system/client/mid-tower/as-c531i-11102u)

AS -C531i-11172U (/en/products/system/client/mid-tower/as-c531i-11172u)

Specifications

Product SKUs
MBD-H13SAE-MF

Physical Stats
Form Factor
Micro-ATX
Dimension
9.6" x 9.6" (24.384cm x 24.384cm)

Processor
CPU
AMD EPYC™ 4004 series Processors
Single Socket LGA-1718 (Socket AM5) supported, CPU TDP supports Up to 170W TDP
Core
Up to 16 cores, 32 threads

System Memory
Memory Capacity
4 DIMM slots
Memory Type
5200/4800/3600 MT/s Up to 192GB of memory with speeds of up to 5200MT/s (1DPC) / 3600MT/s (2DPC)
DIMM Sizes
8GB, 16GB, 24GB, 32GB, 48GB
Memory Voltage
1.1V

On-Board Devices
Chipset
B650
SATA
4 SATA3 ports; RAID 0,1,10
IPMI
ASPEED AST2600 BMC
Audio
ALC 888S HD Audio
Network Controllers
Dual LAN with Intel® i210 Gigabit Ethernet Controller
Single LAN with ASPEED AST2600 BMC, Dedicated LAN for IPMI

Input / Output
USB
1 USB 3.2 Gen2x2 port(s) (1 rear type C 20Gb)
5 USB 3.2 Gen2 port(s) (3 rear type A 10Gb; 2 rear type C DP 1.4 Alt mode)
2 USB 3.2 Gen1 port(s) (2 headers 5Gb)
1 USB 2 port(s) (1 via header 2 ports by a header)
Video Output
1 HDMI 2.0 port(s), 1 DP 1.4a port(s), 2 rear type C port(s) DP 1.4 Alt mode
Serial Port
1 COM Port(s) (1 header)
TPM
1 TPM Header

Expansion Slots
PCIe
1 PCIe 4.0 x4,
2 PCIe 5.0 x16 slots (16/NA or 8/8)
M.2
M.2 Interface: 2 PCIe 5.0 x4, RAID 0 & 1
Form Factor: 2280/22110
Key: M-Key

System BIOS
BIOS Type
AMI 32MB SPI Flash EEPROM
BIOS Features
ACPI 6.4
SMBIOS 3.5 or later
UEFI 2.8
Plug and Play (PnP)
USB Keyboard support

Management
Software
Redfish API (/manuals/other/RedfishRefGuide.pdf), Supermicro Server Manager (SSM) (/solutions/SMS_SSM.cfm), Supermicro Update Manager (SUM) (/solutions/SMS_SUM.cfm), Supermicro SuperDoctor® 5 (SD5) (/en/solutions/management-software/superdoctor), Super Diagnostics Offline (SDO) (/en/solutions/management-software/super-diagnostics-offline), KVM with dedicated LAN (/manuals/other/BMC_IPMI_X13_H13.pdf#page=112), IPMI 2.0 (/solutions/IPMI.cfm)
Power Configurations
Power-on mode control for AC power loss recovery, Power button override mechanism, S3/S4/S5

PC Health Monitoring
Voltage
System temperature, PCH temperature, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, CPU thermal trip support
FAN
7x 4-pin fan headers (up to 7 fans)

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)
Operating Relative Humidity Range
10% - 85% (non-condensing)
Non Operating Relative Humidity Range
10% - 95% (non-condensing)