H13SSL-NT New

ATX

Key Features

AMD EPYC™ 9004 series Processors

System on Chip

Up to 3TB 3DS ECC RDIMM, DDR5-4800MHz in 12 DIMM slots

3 PCIe 5.0 x16 2 PCIe 5.0 x8

2x 10GBase-T LAN Ports via Broadcom BCM57416

Up to 6 USB 3.0 ports(4 rear + 2 via header)

8 SATA3

ASPEED AST2600 BMC graphics

6 PWM 4-pin Fans with tachometer status monitoring

M.2 Interface: 2 PCIe 4.0 x4 **M.2 Form Factor:** 2280, 22110

Specifications

Product SKUs
MBD-H13SSL-NT

Physical Stats
Form Factor
ATX
Dimension
12" x 10.1" (30.48cm x 25.65cm)

Processor
CPU
AMD EPYC™ 9004 series Processors
Single Socket SP5 supported, CPU TDP supports Up to 400W TDP
Core
Up to 128 cores, 256 threads

System Memory
Memory Capacity
12 DIMM slots
Up to 3TB 3DS ECC Registered RDIMM, DDR5-4800MHz
Memory Type
4800 MT/s ECC DDR5 RDIMM (3DS) Up to 256GB of memory with speeds of up to 4800MHz (1DPC)
DIMM Sizes
16GB, 24GB, 32GB, 40GB, 48GB, 64GB, 80GB, 96GB, 128GB, 192GB, 256GB
Memory Voltage
1.1V
Error Detection
Corrects single-bit errors
Detects double-bit errors (using ECC memory)

On-Board Devices
Chipset
System on Chip
Network Controllers
Dual LAN with Broadcom BCM57416 10GBase-T

Input / Output
SATA
8 SATA3 (6Gbps) port(s)
LAN
1 RJ45 Dedicated IPMI LAN port
USB
6 USB 3.0 port(s) (4 USB; 2 via header)
Video Output
1 VGA port(s)
Serial Port
1 COM Port(s) (1 header)
TPM
1 TPM Header
Others
1 MCIO (PCIe 5.0 x8/SATA3) Port(s)
2 MCIO (PCIe 5.0 x8) Port(s)

Expansion Slots
PCIe
3 PCIe 5.0 x16 (in x16 slot),
2 PCIe 5.0 x8
M.2
M.2 Interface: 2 SATA/PCIe 4.0 x4
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, Supermicro Server Manager (SSM), Supermicro Update Manager (SUM), SuperDoctor® 5, Super Diagnostics Offline , KVM with dedicated LAN , IPMI 2.0

Security
Hardware
Trusted Platform Module (TPM) 2.0
Silicon Root of Trust (RoT) – NIST 800-193 Compliant
Features
Cryptographically Signed Firmware
Secure Boot
Secure Firmware Updates
Automatic Firmware Recovery
Supply Chain Security: Remote Attestation
Runtime BMC Protections
System Lockdown

PC Health Monitoring
Voltage
VBAT, Memory temperature, CPU temperature, 3.3V standby, +5V standby, +5V, +3.3V, +12V, VRM temperature, CPU thermal trip support, 1.8V standby
LED
UID/Remote UID
BMC/IPMI Heartbeat LED
Other Features
RoT
FAN
6x 4-pin fan headers (up to 6 fans)

Operating Environment
Operating Temperature Range
10°C - 35°C (50°F - 95°F)
Non-Operating Temperature Range
-40°C - 70°C (-40°F - 158°F)
Operating Relative Humidity Range
8% - 90% (non-condensing)
Non Operating Relative Humidity Range
5% - 95% (non-condensing)

Parts List

Optional Parts

TPM security module (optional, not included)

Part Number	AOM-TPM-9670V
Qty	1
Description	SPI capable TPM 2.0 with Infineon 9670 controller with horizontal form factor