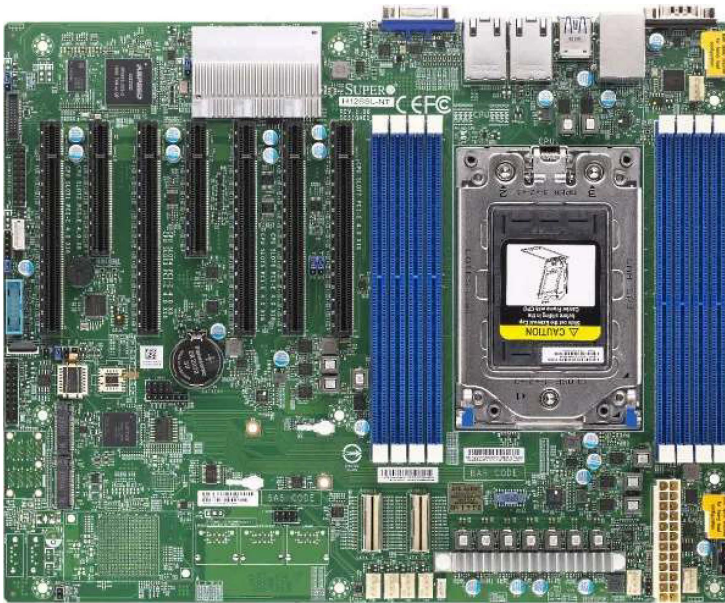


H12SSL-NT

Links & Resources



- ▶ [Tested Memory List](#)
- ▶ [Tested HDD List](#)
- ▶ [Tested M.2 List \(/en/support/resources/m2ssd?ProductID=87233&ProductName=H12SSL-NT\)](#)
- ▶ [Tested AOC List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)

OS Compatibility

[\(/Aplus/support/resources/OS/OS Comp_H12_EPYC7002_7003-UP-1.cfm\)](#)

Key Features

1. Single AMD EPYC™ 7003/7002 Series Processor
(The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer)
2. 2TB Registered ECC DDR4 3200MHz SDRAM in 8 DIMMs
3. Expansion slots:
 - 5 PCI-E 4.0 x16
 - 2 PCI-E 4.0 x8
 - M.2 Interface:** 2 PCI-E 4.0 x4
 - M.2 Form Factor:** 2280, 22110
 - M.2 Key:** M-key
4. 2 M.2,
 - 2 SlimSAS x8 (**each:** 8 SATA3 or 2 NVMe)
5. Dual 10GBase-T LAN via Broadcom BCM57416
6. ASPEED AST2500 BMC graphics
7. Up to 6 USB 3.0 ports
(4 rear + 2 via header)
8. 7 PWM 4-pin Fans with tachometer status monitoring

Note: Image above may show a varied configuration of optional parts. Please refer to parts list for standard parts included.

Specifications

Product SKUs

MBD-H12SSL-NT

H12SSL-NT

MBD-H12SSL-NT-O

H12SSL-NT (Retail Pack)

Physical Stats

Form Factor

ATX

Dimensions

12" x 9.6" (30.5cm x 24.4cm)

Processor/Chipset

CPU

Single AMD EPYC™ 7003/7002 Series Processor
(The latest AMD EPYC™ 7003 Series Processor with AMD 3D V-Cache™ Technology requires BIOS version 2.3 or newer)

Socket SP3

Cores

Up to 64 Cores

Chipset

System on Chip

System Memory

Memory Capacity

8 DIMM slots

Supports up to 2TB Registered ECC DDR4 3200MHz SDRAM

8-channel memory bus

Memory Type

DDR4 3200 MHz Registered ECC, 288-pin gold-plated DIMMs

DIMM Sizes

8GB, 16GB, 32GB, 64GB, 128GB, 256GB

Memory Voltage

1.2V

Error Detection

Corrects single-bit errors

Detects double-bit errors (using ECC memory)

On-Board Devices

SATA

SATA3 (6 Gbps)

IPMI

Support for Intelligent Platform Management Interface v.2.0

IPMI 2.0 with virtual media over LAN and KVM-over-LAN support

ASPEED AST2500 BMC

Network Controllers

Dual 10GBase-T LAN via Broadcom BCM57416

1 Realtek RTL8211F PHY (dedicated IPMI)

VGA

ASPEED AST2500 BMC

Input / Output

SATA/NVMe Hybrid

2 SlimSAS x8 (each: 8 SATA3 or 2 NVMe)

LAN

Dual 10GBase-T LAN ports

1 RJ45 Dedicated IPMI LAN port

USB

6 USB 3.0 ports

(4 rear + 2 via header)

VGA

1 VGA port

Others

1 COM port (rear)

1 TPM 2.0 header

Expansion Slots

Chassis (Optimized for H12SSL-NT)

1U

[SC813MFTQC-350CB2](#)

[\(/products/chassis/1U/813/SC813MFTQC-350CB2\)](#)

[SC813MFTQC-R407CB](#)

[\(/products/chassis/1U/813/SC813MFTQC-R407CB\)](#)

2U

[SC213BAC8-R1K23LPB](#)

[\(/products/chassis/2U/213/SC213BAC8-R1K23LPB\)](#)

[SC216BE1C4-R1K23LPB](#)

[\(/products/chassis/2U/216/SC216BE1C4-R1K23LPB\)](#)

[SC825MBTQC-R802LPB](#)

[\(/products/chassis/2U/825/SC825MBTQC-R802LPB\)](#)

[SC825TQC-R802LPB](#)

[\(/products/chassis/2U/825/SC825TQC-R802LPB\)](#)

[SC826BE1C4-R1K23LPB](#)

[\(/products/chassis/2U/826/SC826BE1C4-R1K23LPB\)](#)

[SCLA26AC12-R920LP1](#)

[\(/products/chassis/2U/LA26/SCLA26AC12-R920LP1\)](#)

3U

[SC835TQC-R802B](#)

[\(/products/chassis/3U/835/SC835TQC-R802B\)](#)

[SC836BE1C-R1K23B](#)

[\(/products/chassis/3U/836/SC836BE1C-R1K23B\)](#)

Mid-Tower

[SC732i-903B](#)

Tower/4U

[SC745BAC-R1K23B](#)

[\(/products/chassis/4U/745/SC745BAC-R1K23B\)](#)

[SC846BE1C-R1K23B](#)

[\(/products/chassis/4U/846/SC846BE1C-R1K23B\)](#)

System BIOS

BIOS Type

AMI 256Mb SPI Flash EEPROM

BIOS Features

Plug and Play (PnP)

DMI 2.3

PCI 2.2

ACPI 5.1

USB Keyboard Support

SMBIOS 3.1.1

Management

Software

[Super Doctor 5 \(/products/nfo/SMS_SD5.cfm\)](#)

Watch Dog

NMI

[SUM \(/products/nfo/SMS_SUM.cfm\)](#)

[IPMI 2.0 \(/products/nfo/SMS_IPMI.cfm\)](#), KVM with dedicated LAN

Power Configurations

ACPI Power Management

Power-on mode control for AC power loss recovery

PCI-Express

5 PCI-E 4.0 x16

2 PCI-E 4.0 x8

M.2

Interface: 2 PCI-E 4.0 x4

Form factor: 2280, 22110

Key: M-key

CPU

Monitors CPU Core Voltages, +3.3V, +5V, +5V standby, +3.3V standby

CPU switching voltage regulator

Supports system management utility

VBAT

FAN

Up to 7-fan status tachometer monitoring

Up to 7 4-pin fan headers

Dual Cooling Zone

Status monitor for speed control

Pulse Width Modulated (PWM) fan connectors

Temperature

Monitoring for CPU and chassis environment

CPU Thermal Trip Support

Thermal control for 7x Fan connectors

I²C Temperature Sensing Logic

LED

CPU / System Overheat LED

Other Features

Chassis Intrusion Detection

Chassis Intrusion Header

UID

Operating Environment / Compliance**Environmental Specifications**

Operating Temperature:

10°C to 35°C (50°F to 95°F)

Non-operating Temperature:

-40°C to 70°C (-40°F to 158°F)

Operating Relative Humidity:

8% to 90% (non-condensing)

Non-operating Relative Humidity:

5% to 95% (non-condensing)