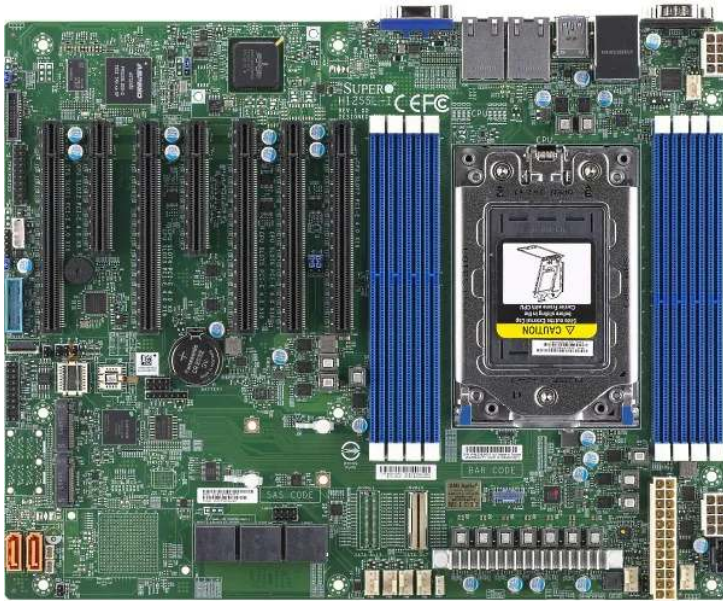


H12SSL-i

Links & Resources



(/a_images/products/Aplus/MB/H12SSL-i_spec.jpg)

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD List](#)
- ▶ [Tested M.2 List \(/en/support/resources/m2ssd?ProductID=87230&ProductName=H12SSL-i\)](#)
- ▶ [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. 8 SATA3, 2 M.2,
8 SATA3 or 2 NVMe via single SlimSAS x8
5. 2 Gigabit Ethernet LAN Ports
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-i

H12SSL-i

MBD-H12SSL-i-O

H12SSL-i (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 gigabit LAN via Broadcom BCM5720

1 Realtek RTL8211F PHY (dedicated IPMI)

VGA

ASPEED AST2500 BMC

Input / Output

SATA

8 SATA3 (6 Gbps) ports

SATA/NVMe Hybrid

8 SATA3 or 2 NVMe via single SlimSAS x8

LAN

2 RJ45 Gigabit Ethernet LAN ports

1 RJ45 Dedicated IPMI LAN port

USB

6 USB 3.0 ports

(4 rear + 2 via header)

VGA

1 VGA port

Chassis (Optimized for H12SSL-i)

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>).

Server(s) (with H12SSL-i)

Model(s)

AS -2014S-TR (</Aplus/system/2U/2014/AS-2014S-TR.cfm>).

AS -3014TS-i (</Aplus/system/Tower/3014/AS-3014TS-i.cfm>).

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

Others

1 COM port (rear)
2 SATA DOM power connectors
1 TPM 2.0 header

Expansion Slots**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

Power Configurations

ACPI Power Management
Power-on mode control for AC power loss recovery

PC Health Monitoring**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)

Parts List

[Global SKU \(/en/products/SMC_global_skus\)](/en/products/SMC_global_skus)
