



Key Features

- 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)
- 2TB Registered ECC DDR4 3200MHz SDRAM in 8 DIMMs
- 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
- 8 SATA3, 2 M.2,
8 SATA3 or 2 NVMe via single SlimSAS x8
- 2 Gigabit Ethernet LAN Ports
- ASPEED AST2500 BMC graphics
- Up to 6 USB 3.0 ports
(4 rear + 2 via header)
- 8 PWM 4-pin Fans with tachometer status monitoring

- ▶ [Tested Memory List](#)
- ▶ [Tested HDD List](#)
- ▶ [Tested M.2 List](#)
- ▶ [Tested AOC List](#)
- ▶ [Motherboard Manual](#)
- ▶ [Update Your BIOS](#)
- ▶ [IPMI Firmware](#)
- ▶ [Download the Latest Drivers and Utilities](#)
- ▶ [Download Driver CD](#)
- ▶ [OS Compatibility](#)



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

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
- 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

Specifications

Chassis (Optimized for H12SSL-i)

- 1U**
[SC813MFTQC-350CB2](#)
[SC813MFTQC-R407CB](#)
- 2U**
[SC213BAC8-R1K23LPB](#)
[SC216BE1C4-R1K23LPB](#)
[SC825MBTQC-R802LPB](#)
[SC825TQC-R802LPB](#)
[SC826BE1C4-R1K23LPB](#)
[SCLA26AC12-R920LP1](#)
- 3U**
[SC835TQC-R802B](#)
[SC836BE1C-R1K23B](#)
- Mid-Tower**
SC732i-903B
- Tower/4U**
[SC745BAC-R1K23B](#)
[SC846BE1C-R1K23B](#)

Server(s) (with H12SSL-i)

- Model(s)**
[AS-2014S-TR](#)
[AS-3014TS-i](#)

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](#)
Watch Dog
NMI
- SUM**
[IPMI 2.0](#), KVM with dedicated LAN
- 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 Tx Fan connectors
iC 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)