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)
- 2. 2TB Registered ECC DDR4 3200MHz SDRAM in 8
- 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

Links & Resources

- 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

Product SKUs

- MBD-H12SSL-N1
- MBD-H12SSL-NT-O H12SSL-NT (Retail Pack)

Physical Stats

Form Factor

Dimensions

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

Processor/Chipset

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

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)

ASPEED AST2500 BMC

Input / Output

SATA/NVMe Hybrid

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

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

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-NT)

SC813MFTQC-350CB2

SC813MFTQC-R407CB 2U

SC213BAC8-R1K23LPB SC216BE1C4-R1K23LPB

SC825MBTQC-R802LPB

SC825TQC-R802LPB

SC826BE1C4-R1K23LPB

SCLA26AC12-R920LP1

311

SC835TOC-R802B SC836BE1C-R1K23B

Mid-Tower SC732i-903B

SC745BAC-R1K23B

SC846BE1C-R1K23B

System BIOS

BIOS Type

AMI 256Mb SPI Flash EEPROM BIOS Features Plug and Play (PnP)

DMI 2 3

PCI 2.2 ACPIS 1

USB Keyboard Support SMBIOS 3.1.1

Management

Software

Super Doctor 5

SUM

IPMI 2.0, KVM with dedicated LAN

Power Configurations
ACPI Power Management

Power-on mode control for AC power loss

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

FΔN

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

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

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)