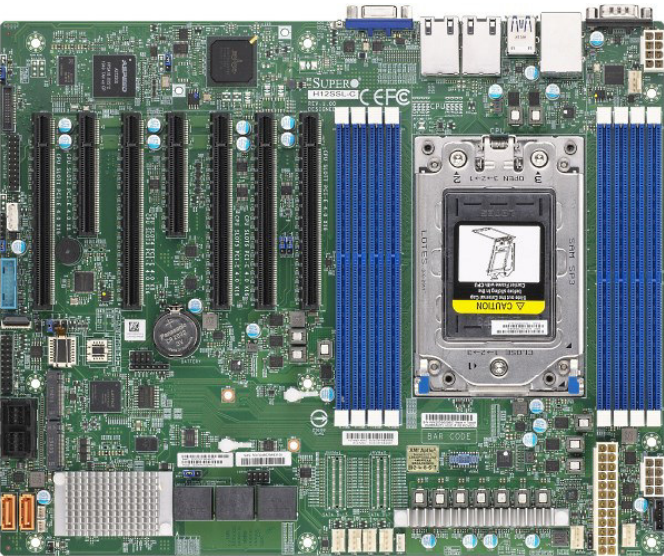




Key Features

- | |
|---|
| 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, Broadcom 3008 SAS3 (12 Gbps) controller for 8 SAS3 ports, 2 M.2 |
| 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 PWM4-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.

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](#)



Product SKUs	
MBD-H12SSL-C	H12SSL-C
MBD-H12SSL-C-O	H12SSL-C (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)
SAS	- Broadcom 3008 SAS3 (12 Gbps) controller - RAID 0, 1, 10
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
SAS	8 SAS3 (12 Gbps) ports
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 PCIe 4.0 x16 2 PCIe 4.0 x8
M.2	- Interface: 2 PCIe 4.0 x4 - Form factor: 2280, 22110 - Key: M-key

Chassis (Optimized for H12SSL-C)	
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
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	<u>Super Doctor 5</u> - Watch Dog - NMI <u>SUM</u> <u>IPMI 2.0</u>, 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 7x Fan connectors - PC 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)

Bulk Pack List			
	Part Number	Qty	Description
H12SSL-C	MBD-H12SSL-C-B	1	H12SSL-C Motherboard
I/O Cable	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Shield	MCP-260-00042-0N	1	STD I/O SHIELD FOR X9 SOCKET R SERVER MB

Retail Pack List			
	Part Number	Qty	Description
H12SSL-C	MBD-H12SSL-C-O	1	H12SSL-C Motherboard
I/O Cable	CBL-0044L	2	57.5CM SATA FLAT S-S PBF
I/O Cable	CBL-SAST-0658	2	INT Mini-SAS HD CBL for PCIe SSD NVMe 12Gb/s 60cm 30AWG
I/O Shield	MCP-260-00042-0N	1	STD I/O SHIELD FOR X9 SOCKET R SERVER MB

Optional Parts List			
	Part Number	Qty	Description
I/O Cable	CBL-SAST-0699	-	MINI SAS HD-4 SATA ,12G,INT,75/75/90/90CM,75CM SB,28/30AWG,Ro
TPM security module	<u>AOM-TPM-9655V</u>	-	TPM 1.2 module w ith Infineon 9655, RoHS/REACH,PBF;
	<u>AOM-TPM-9665V</u>	-	TPM 2.0 module w ith Infineon 9665, RoHS/REACH,PBF;