



Super Micro Computer H12SSL-NT Motherboard User Guide

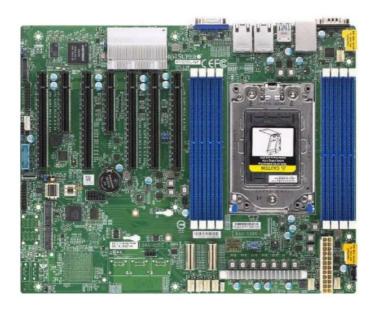
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Super Micro Computer H12SSL-NT Motherboard



Key Features

- Single AMD EPYC[™] 7003/7002 Series Processor
 (The latest AMD EPYC[™] 7003 Series Processor with AMD 3D VCache TM Technology requires BIOS version 2.3 or newer)
- 2. 2T B 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 x4M.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 1 0GBase-T LAN via Broadcom BCM57 416
- 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.

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)

Specifications

Product SKUs

- MBD-HI2SSL-NT
- HI2SSL-NT
- MBD-HI2SSL-NT-O
- HI2SSL-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 tatest AMD EPYC[™] 7003 Series Processor with AMD 3D VCache TM 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 3200M Hz 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 I0GBase-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 IOGBase-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)

• IU

- SC813M FTQC-350CB2 (LproductsfchassisL!U/813/SC813MFTQC-350CB2)
- SC813M FTQC-R407CB (Lproducts/chassisf1U/813/SC813MFTQC-R407CB)

2U

- SC213BAC8-R1K23LPB.(LproductsLchassisL2UL213/SC213BAC8-RIK23LPB).
- ${\tt \circ SC216BE1C4-R1K23LPB.} (Lproducts/chassisf2Uf216/SC216BE1C4-R1K23LPB). \\$
- SC825 M BTQC-R802LP B.(Lproducts/chassisf2U/825/SC825MBTQC-R802LPB).
- SC825TQC-R802LPB.(Lproducts/chassisf2UL825/SC825TQC-R802LPB).
- SC826BE1C4-R1K23LPB.(Lproducts/chassisf2U/826/SC826BE1C4-R1K23LPB).
- SCLA26AC12-R920LP1.(Lproductsfchassisf2U/LA26/SCLA26AC12-R920LP1).

• 3U

- SC835TQC-R802 B.(Lproducts/chassisf3U/835/SC835TQC-R802B).
- SC836BE1C-R1K23B(Lproducts/chassisL3U/836/SC836BE1C-RIK23B)

Mid-Tower

SC732i-903B

Tower/4U

- SC745BAC-R1K23B (Lprod ucts/chassisL 4U/7 45/SC7 45BAC-R1K23B)
- SC846BE1C-R1K23B (Lproducts/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
- SM BIOS 3.1.1

Management

Software

- Supere Doctor 5 (Lproducts/nfo/SMS SDS.cfm).
- Watch Dog
- NMI
- SUM (Lproducts/nfoLSMS SUM.cfm).
- IPMI 2.0 (Lproducts/nfoLSMS IPMI.cfm)., KVM with dedicated LAN

• Power Configurations

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

PCI-Express

- S 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, +SV, +SV 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

Operating Environment/ Compliance

Environmental Specifications

- Operating Temperature: 10° c to 3s0 c (so° F to 9S° F)
- Non-operating Temperature: -40°C to 10° c (-40° F to 1ss° F)
- Operating Relative Humidity: 8% to 90% (non-condensing)
- Non-operating Relative Humidity: So/o to 9S% (non-condensing)

Documents / Resources



<u>Super Micro Computer H12SSL-NT Motherboard</u> [pdf] User Guide H12SSL-NT Motherboard, H12SSL-NT, Motherboard

References

• User Manual

Manuals+, Privacy Policy

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