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› [Supermicro](#) /

› [Supermicro H11DSI-NT Motherboard User Manual](#)

Supermicro MBD-H11DSI-NT-B

Supermicro H11DSI-NT Motherboard User Manual

Model: MBD-H11DSI-NT-B

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Supermicro H11DSI-NT motherboard. Please read this manual thoroughly before beginning installation to ensure proper setup and optimal performance.

The Supermicro H11DSI-NT is an EATX motherboard designed for high-performance computing, featuring dual AMD EPYC 7000-series processor support, extensive memory capacity, and robust connectivity options.

PRODUCT OVERVIEW

The H11DSI-NT motherboard is built to support demanding server and workstation applications. Key features include:

- Dual AMD EPYC 7000-series processor sockets (SP3)
- Up to 2TB Registered ECC DDR4 2666Mhz SDRAM across 16 DIMM slots
- Multiple storage interfaces: 10 SATA3, 1 M.2, 2 SATA DOM
- Dual 10GBase-T LAN ports for high-speed networking
- Integrated Speed AST2500 BMC Graphics for remote management

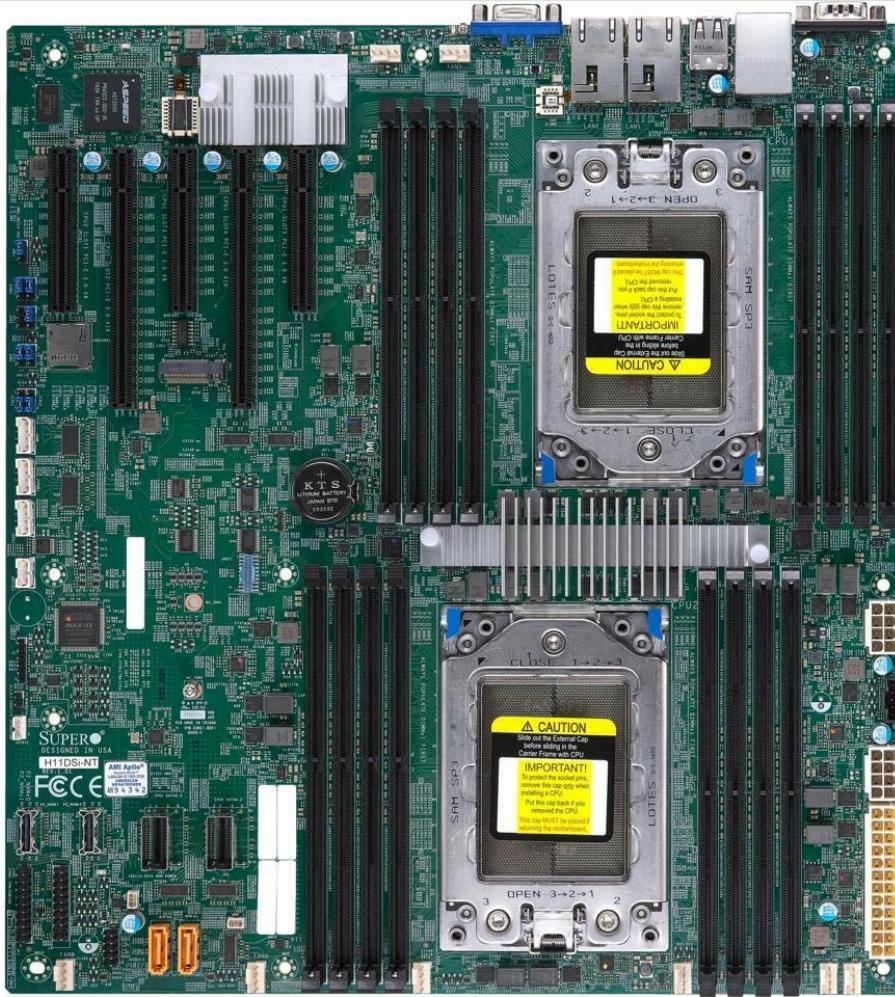


Figure 1: Top-down view of the Supermicro H11DSI-NT motherboard, showcasing the dual CPU sockets, numerous DIMM slots, and various expansion slots.

SETUP AND INSTALLATION

1. Safety Precautions

- Always wear an anti-static wrist strap when handling the motherboard.
- Ensure the power supply is disconnected from the wall outlet before installation.
- Handle the motherboard by its edges to avoid touching components.

2. Component Identification

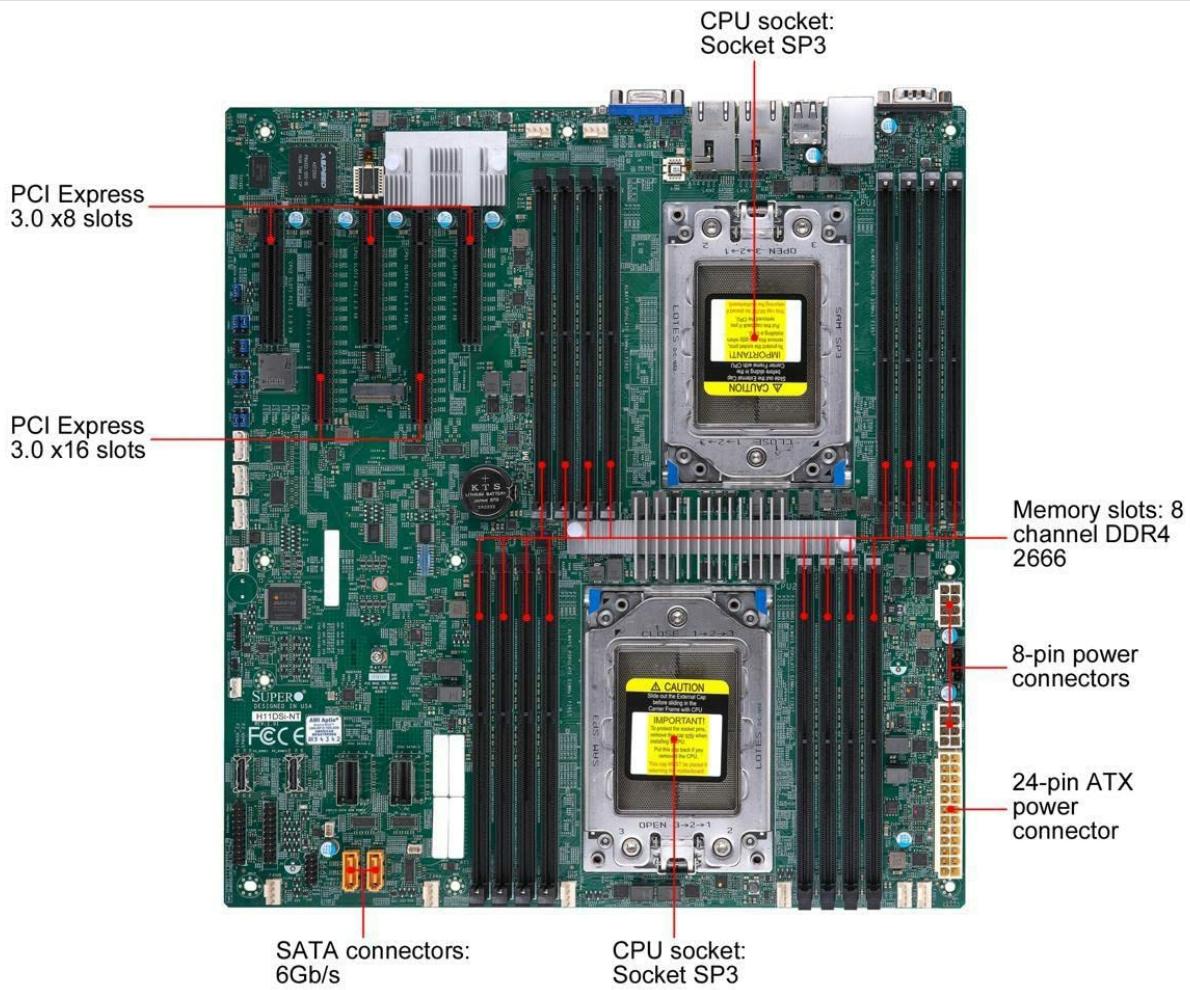


Figure 2: Labeled diagram of the Supermicro H11DSI-NT motherboard, highlighting key components such as CPU sockets (SP3), PCI Express slots (x8 and x16), 8-channel DDR4 2666 memory slots, SATA 6Gb/s connectors, 8-pin power connectors, and the 24-pin ATX power connector.

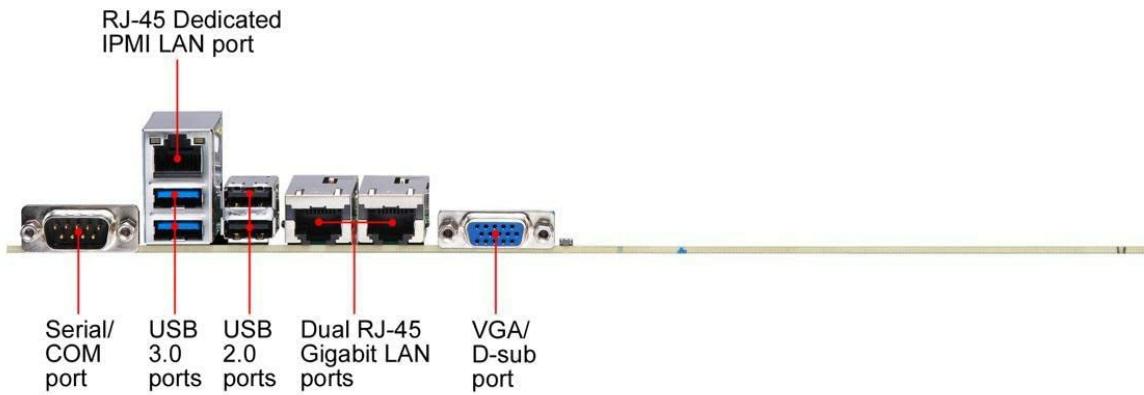


Figure 3: Rear I/O panel of the Supermicro H11DSI-NT motherboard, showing the Serial/COM port, USB 3.0 ports, USB 2.0 ports, Dual Gigabit LAN ports, VGA/D-sub port, and the RJ-45 Dedicated IPMI LAN port.

3. Processor Installation

1. Carefully open the CPU socket retention mechanism.
2. Align the AMD EPYC processor with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket.
3. Gently place the processor into the socket without forcing it.
4. Close the retention mechanism to secure the CPU.
5. Apply thermal paste and install the appropriate CPU cooler.

4. Memory Installation

1. Locate the 16 DDR4 DIMM slots.
2. Open the retention clips on both ends of the DIMM slot.
3. Align the memory module with the slot, ensuring the notch on the module matches the key in the slot.
4. Press down firmly on both ends of the memory module until the retention clips snap into place.
5. For optimal performance, populate DIMM slots according to the motherboard's memory population guidelines (refer to the full manual for specific configurations).

5. Power Connections

- Connect the 24-pin ATX power connector from your power supply to the corresponding header on the motherboard.
- Connect the 8-pin CPU power connectors (EPS12V) to the motherboard. Ensure both are connected for dual

CPU configurations.

OPERATING INSTRUCTIONS

1. Initial Boot-up

After all components are installed and connected, connect the power supply to a wall outlet and power on the system. The system should initiate POST (Power-On Self-Test) and display information on the connected monitor.

2. BIOS/UEFI Configuration

During POST, press the designated key (usually DEL or F2) to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, enable/disable integrated peripherals, and adjust performance settings. Refer to the Supermicro website for detailed BIOS/UEFI guides and firmware updates.

3. Operating System Installation

Once BIOS/UEFI is configured, proceed with the installation of your preferred operating system (e.g., Windows Server, Linux distributions). Ensure all necessary drivers for the motherboard's chipsets, LAN, and other integrated components are installed after the OS is set up.

MAINTENANCE

- Dust Removal:** Periodically clean dust from the motherboard and cooling components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- Firmware Updates:** Check the Supermicro support website regularly for the latest BIOS/UEFI and BMC firmware updates to ensure optimal performance, stability, and security. Follow the provided instructions carefully when performing updates.
- Cable Management:** Ensure internal cables are neatly routed to promote proper airflow and prevent overheating.

TROUBLESHOOTING

Problem	Possible Cause	Solution
System does not power on.	Power cables not connected properly; faulty power supply; faulty power button.	Check 24-pin ATX and 8-pin CPU power connections. Test power supply. Verify front panel power button connection.
No display output.	Monitor not connected; faulty GPU; incorrect display output selected; memory issues.	Ensure monitor is connected and powered on. Reseat memory modules. Test with a known good GPU (if applicable). Check BIOS settings for display output.

Problem	Possible Cause	Solution
System reboots unexpectedly.	Overheating; unstable power; faulty components (CPU, RAM).	Check CPU cooler installation and thermal paste. Ensure adequate case airflow. Test memory with diagnostic tools. Verify power supply stability.
Operating system not detected.	Incorrect boot order; faulty storage drive; corrupted OS installation.	Check boot order in BIOS/UEFI. Verify SATA/M.2 connections. Reinstall OS if necessary.

SPECIFICATIONS

Feature	Detail
Model Name	H11DSI-NT (MBD-H11DSI-NT-B)
CPU Socket	Dual Socket SP3
Compatible Processors	AMD EPYC 7000-series processors
Chipset	System on Chip (SoC)
RAM Memory Technology	DDR4 Registered ECC
Memory Slots	16 DIMM slots
Max Memory Capacity	Up to 2TB
Memory Clock Speed	2666 MHz
SATA Ports	10 x SATA3 (6Gb/s)
M.2 Slots	1 x M.2
SATA DOM	2 x SATA DOM
LAN Ports	Dual 10GBase-T LAN ports
Graphics	Speed AST2500 BMC Graphics
PCI Express Slots	Multiple PCI Express 3.0 x8 and x16 slots
USB Ports	USB 3.0, USB 2.0
Dimensions	12 x 2 x 13 inches (EATX Form Factor)
Operating Temperature	10°C to 35°C (50°F to 95°F)

WARRANTY AND SUPPORT

Warranty Information

For detailed warranty information regarding your Supermicro H11DSI-NT motherboard, please refer to the warranty card included with your product or visit the official Supermicro website. Warranty terms and conditions may vary by region and purchase date.

Technical Support

If you encounter any issues not covered in this manual or require further assistance, please contact Supermicro Technical Support. You can find contact information and additional resources, including drivers, BIOS updates, and FAQs, on the official Supermicro support website:

[Supermicro Official Support Website](#)

When contacting support, please have your motherboard model number (MBD-H11DSI-NT-B) and serial number ready.

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Related Documents - MBD-H11DSI-NT-B

 SUPER P3TSSA SUPER P3TSSR SUPER P3TSSE USER'S MANUAL Revision 1.0c	<p>Supermicro P3TSSA/P3TSSR/P3TSSE User's Manual: Installation, BIOS, and Troubleshooting Guide</p> <p>Comprehensive user's manual for Supermicro P3TSSA, P3TSSR, and P3TSSE motherboards. Covers installation, system configuration, BIOS settings, troubleshooting, and technical support from Supermicro.</p>
 X9SPV-F X9SPV-LN4F USER'S MANUAL Revision 1.0b	<p>Supermicro X9SPV-F/LN4F Motherboard User's Manual</p> <p>Comprehensive user's manual for the Supermicro X9SPV-F and X9SPV-LN4F motherboards, detailing installation, configuration, troubleshooting, and BIOS settings for Intel QM77 Express chipset-based systems.</p>
 SUPER X6DHR-X8G SUPER X6DHR-XiG USER'S MANUAL Revision 1.0	<p>SUPER X6DHR-X8G/X6DHR-XiG User's Manual</p> <p>User's Manual for the SUPER X6DHR-X8G and X6DHR-XiG motherboards, detailing installation, features, BIOS setup, and troubleshooting for Intel Xeon processor-based systems.</p>

