

## ASUS M2N-SLI DELUXE

# ASUS M2N-SLI Deluxe Motherboard Instruction Manual

Model: M2N-SLI DELUXE

Brand: ASUS

## 1. INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of the ASUS M2N-SLI Deluxe Motherboard. The NVIDIA nForce® 570 SLI™ MCP (media and communications processors) is designed for high-performance gaming, featuring AMD Socket AM2 processor support, a 1 GHz HyperTransport link, and revolutionary NVIDIA SLI™. It includes 6 Serial ATA ports enabled through the SATA 3Gb/s RAID controller, Dual Gigabit LAN controllers, and a High Definition Audio Interface, delivering exceptional performance.

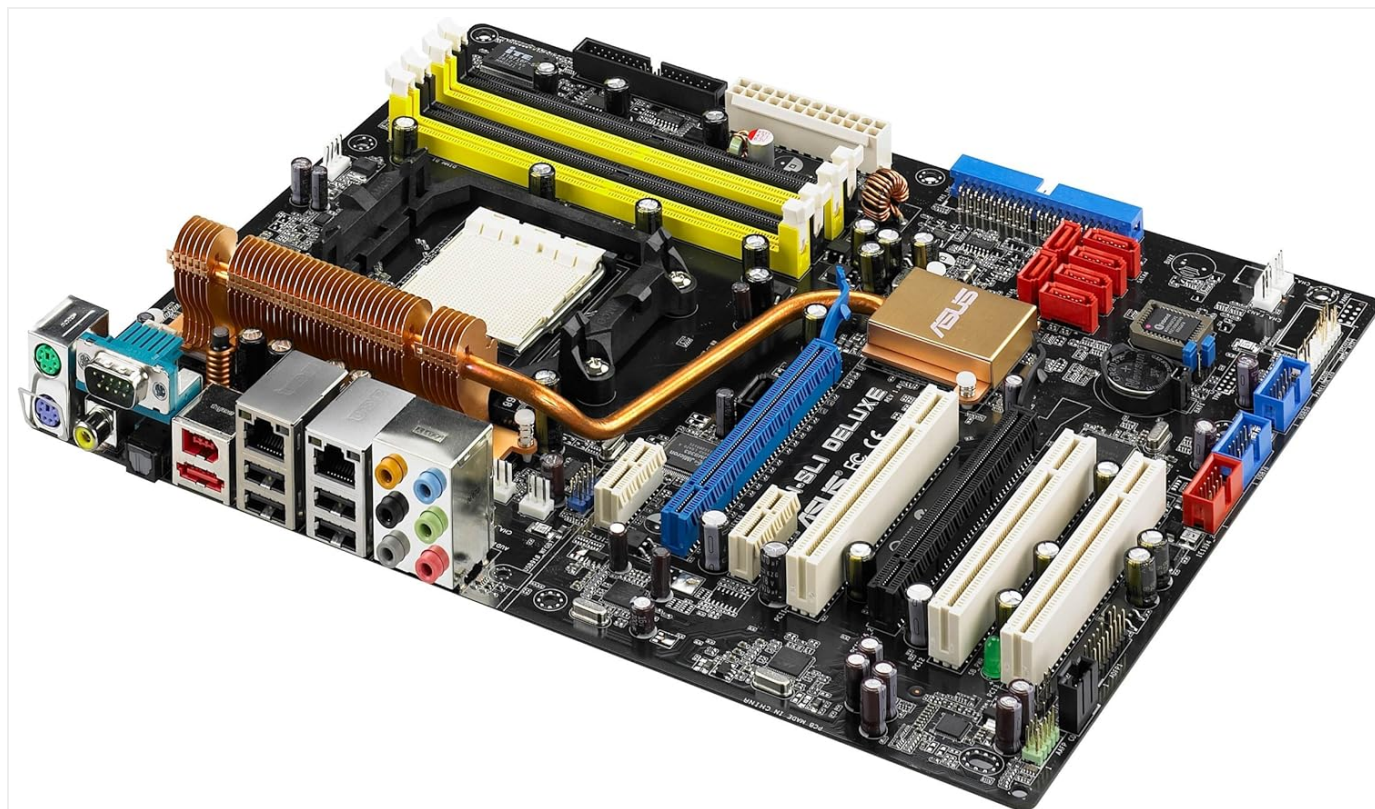


Figure 1: ASUS M2N-SLI Deluxe Motherboard. An overhead view of the ASUS M2N-SLI Deluxe motherboard, showcasing its various components including the CPU socket, RAM slots, PCIe slots, and I/O panel.

## 2. PRODUCT FEATURES

- Supports AMD Socket AM2 Athlon 64 X2 / Athlon 64 FX / Athlon 64 / Sempron processors.
- Equipped with NVIDIA nForce 570 SLI MCP chipset.
- Features 2000 / 1600 MT/s HyperTransport link.
- Supports DDR2-800/667/533 memory, with a maximum capacity of 8GB.
- Includes ASUS Crystal Sound technology to enhance speech-centric applications like Skype, online gaming, video conferencing, and recording.
- Integrated SATA 3Gb/s RAID controller with 6 Serial ATA ports.
- Dual Gigabit LAN controllers for robust network connectivity.
- High Definition Audio Interface for superior sound quality.

## 3. SETUP GUIDE

### 3.1 Safety Precautions

Before beginning installation, ensure your workspace is clean and free of static electricity. Always wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity. Disconnect the power supply from the wall outlet before handling any components.

### 3.2 Component Installation

#### 1. CPU Installation:

Locate the Socket AM2 on the motherboard. Open the CPU retention lever. Carefully align the CPU with the socket, ensuring the golden triangle on the CPU matches the triangle on the socket. Gently lower the CPU into place without forcing it. Close the retention lever to secure the CPU.

#### 2. CPU Cooler Installation:

Apply a thin, even layer of thermal paste to the top of the CPU. Place the CPU cooler onto the CPU, aligning it with the mounting holes around the socket. Secure the cooler using the provided clips or screws, ensuring even pressure. Connect the CPU fan cable to the "CPU\_FAN" header on the motherboard.

#### 3. Memory (RAM) Installation:

Identify the DDR2 DIMM slots (typically yellow and black). Open the clips at both ends of the DIMM slot. Align the memory module with the slot, ensuring the notch on the module matches the key in the slot. Press down firmly on both ends of the module until the clips snap into place. For dual-channel operation, install modules in matching colored slots (e.g., both yellow or both black).

#### 4. Motherboard Mounting:

Install standoffs into your computer case at the locations corresponding to the motherboard's mounting holes. Carefully place the motherboard into the case, aligning the I/O ports with the case's I/O shield. Secure the motherboard with screws, ensuring not to overtighten.

#### 5. Connecting Power Supply:

Connect the 24-pin ATX main power connector and the 4-pin ATX 12V power connector from your power supply to the corresponding ports on the motherboard. Ensure all connections are firm.

#### 6. Connecting Storage Devices:

Connect your SATA hard drives or SSDs to the SATA 3Gb/s ports on the motherboard using SATA data cables. Connect the power cables from your power supply to the storage devices.

#### 7. Connecting Front Panel Connectors:

Connect the power switch, reset switch, HDD LED, power LED, and USB/audio headers from your computer case's front panel to the corresponding pins on the motherboard. Refer to the motherboard's manual for the exact pin layout, as incorrect connections can cause issues.

#### 8. Installing Expansion Cards:

Insert graphics cards into the PCI Express x16 slots (for SLI, use both). Insert other expansion cards (e.g., sound cards, network cards) into the appropriate PCIe x1 or PCI slots. Secure cards with case screws.

## 4. OPERATING INSTRUCTIONS

### 4.1 First Boot and BIOS Setup

After assembling all components, connect your monitor, keyboard, and mouse. Power on your system. During the Power-On Self-Test (POST), press the **DEL** key (or **F2**, depending on BIOS version) repeatedly to enter the BIOS Setup Utility. In the BIOS, you can configure boot order, system time, and various hardware settings. Save changes and exit to proceed with operating system installation.

### 4.2 Driver Installation

After installing your operating system (e.g., Windows Vista), install the necessary drivers for the motherboard's chipset, audio, LAN, and other integrated components. These drivers are typically provided on a support CD/DVD or can be downloaded from the ASUS official website.

### 4.3 NVIDIA SLI Configuration

For users with two compatible NVIDIA graphics cards, install both cards into the PCI Express x16 slots. Connect the SLI bridge connector between the two cards. After installing the NVIDIA graphics drivers, open the NVIDIA Control Panel and enable SLI mode for enhanced graphics performance in supported applications and games.

## 5. MAINTENANCE

### 5.1 Dust Cleaning

Regularly clean dust from inside your computer case, especially from the motherboard, CPU cooler, and fan vents. Use compressed air to blow away dust. Ensure the system is powered off and unplugged before cleaning.

### 5.2 BIOS Updates

Periodically check the ASUS support website for updated BIOS versions. BIOS updates can improve system stability, compatibility, and performance. Follow the instructions provided by ASUS carefully when performing a BIOS update to avoid system damage.

### 5.3 CMOS Battery Replacement

If your system consistently loses its time and date settings or BIOS configurations, the CMOS battery (CR2032 coin cell) may need replacement. Power off and unplug the system, locate the battery on the motherboard, gently remove it, and insert a new one with the positive side facing up.

## 6. TROUBLESHOOTING

- **System Does Not Power On:**

Check all power connections, including the 24-pin ATX and 4-pin 12V connectors to the motherboard, and power connections to all components. Ensure the power supply switch is in the ON position and the wall outlet is functional.

- **No Display Output:**

Verify that the monitor is connected correctly and powered on. Ensure the graphics card is properly seated in its slot and has adequate power. Try reseating RAM modules, as improper memory installation can prevent POST.

- **Memory Recognition Issues:**

Ensure RAM modules are fully seated in their slots. Verify that the memory modules are compatible with the motherboard (DDR2-800/667/533). Refer to the ASUS Qualified Vendor List (QVL) for tested compatible memory modules on the ASUS support website.

- **System Instability or Crashes:**

Check CPU and GPU temperatures to ensure they are within safe operating limits. Verify that all drivers are correctly installed and up to date. Run memory diagnostic tools to check for faulty RAM modules.

- **Peripheral Not Detected:**  
Ensure the peripheral is properly connected to the correct port. Install necessary drivers for the peripheral. Check BIOS settings to ensure the port (e.g., SATA, USB) is enabled.

## 7. SPECIFICATIONS

Feature	Detail
Product Dimensions	13 x 10.25 x 2.75 inches
Item Weight	3.9 pounds
Item Model Number	M2N-SLI DELUXE
Date First Available	May 25, 2006
Manufacturer	Asus
Brand	ASUS
CPU Socket	Socket AM2
Compatible Devices	Personal Computer
RAM Memory Technology	DDR2 800
Compatible Processors	AMD Athlon, AMD Sempron
Chipset Type	NVIDIA nForce 570 SLI MCP
Memory Clock Speed	1000 MHz (HyperTransport Link)
Platform	Windows Vista (and compatible operating systems)
Memory Storage Capacity (Max)	8 GB

## 8. WARRANTY AND SUPPORT

The ASUS M2N-SLI Deluxe Motherboard is manufactured by ASUS. For detailed warranty information, technical support, driver downloads, and further assistance, please visit the official ASUS support website. You can also find more information and resources on the [ASUS Store on Amazon](#).

Always refer to the latest documentation available on the manufacturer's website for the most up-to-date information regarding your product.



<div> X99-DELUXE II Series </div> <div>  </div>	<p><a href="#">ASUS X99-DELUXE II Series Motherboard User Manual: Installation, BIOS Setup, and Specifications</a></p> <p>Comprehensive user manual for the ASUS X99-DELUXE II Series Motherboard, covering detailed installation procedures, BIOS setup configurations, RAID support, and full product specifications. Essential guide for PC builders and enthusiasts.</p>
<div> PRIME X370-PRO </div> <div>  </div>	<p><a href="#">ASUS PRIME X370-PRO Motherboard User Manual</a></p> <p>This user manual provides detailed information on the ASUS PRIME X370-PRO motherboard, including installation, configuration, BIOS setup, RAID support, and specifications. Learn about its features, components, and safety guidelines.</p>
<div> A7N8X-E Deluxe </div> <div> User Guide </div> <div>  </div>	<p><a href="#">ASUS A7N8X-E Deluxe Motherboard User Guide</a></p> <p>This user guide provides comprehensive information for installing, configuring, and operating the ASUS A7N8X-E Deluxe motherboard, including hardware setup, BIOS settings, and software support.</p>
<div> P9X79 DELUXE </div> <div>  </div>	<p><a href="#">ASUS P9X79 DELUXE Motherboard User Manual</a></p> <p>Detailed user manual for the ASUS P9X79 DELUXE motherboard, covering installation, hardware information, BIOS setup, software support, and multi-GPU technology. Includes safety notices and specifications.</p>
<div> TUF B450-PLUS GAMING </div> <div>  </div>	<p><a href="#">ASUS TUF B450-PLUS GAMING Motherboard User Manual and Specifications</a></p> <p>Comprehensive user manual and technical specifications for the ASUS TUF B450-PLUS GAMING motherboard, covering package contents, detailed specifications, motherboard layout, connector descriptions, BIOS settings, and installation guides.</p>
<div> TUF B450-PRO GAMING </div> <div>  </div>	<p><a href="#">ASUS TUF B450-PRO GAMING Motherboard User Manual and Specifications</a></p> <p>Official user manual for the ASUS TUF B450-PRO GAMING motherboard. Find detailed specifications, installation guides for CPU, RAM, and components, BIOS setup instructions, safety information, and connectivity details.</p>

