MOUGOL MG-X99

MOUGOL X99 Motherboard Upgrade Kit User Manual

Model: MG-X99 | Brand: MOUGOL

Introduction

This user manual provides detailed instructions for the installation, operation, and maintenance of your MOUGOL X99 Motherboard Upgrade Kit. This kit is designed to provide a robust and efficient computing foundation, featuring an LGA 2011-3 socket motherboard, an Intel Xeon E5-2650 V3 CPU, and 16GB (2x8GB) of DDR4 2133MHz memory. Please read this manual carefully before proceeding with installation to ensure proper setup and optimal performance.

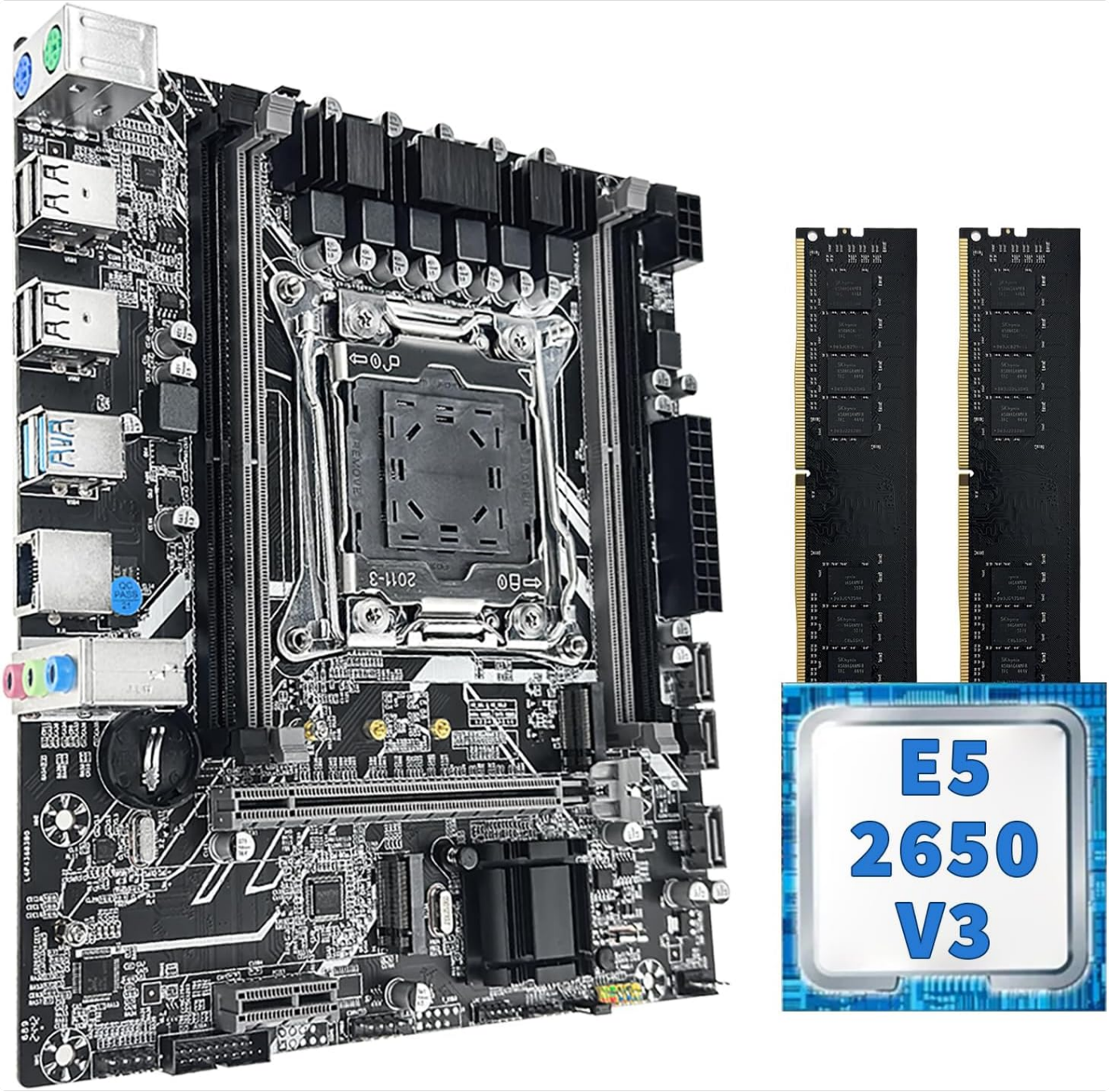


Figure 1: MOUGOL X99 Motherboard Upgrade Kit components.

1. Setup Guide

1.1. Unpacking the Kit

Carefully unpack all components from the box. Verify that all items listed below are present and undamaged. If any item is missing or damaged, please contact MOUGOL customer support immediately.

- MOUGOL X99 Motherboard
- Intel Xeon E5-2650 V3 CPU
- 2 x 8GB DDR4 2133MHz MOUGOL Memory Modules
- CPU Cooler Mounting Bracket
- SATA Data Cable

- I/O Shield



Figure 2: What's included in the box.

1.2. Motherboard Overview

Familiarize yourself with the layout and various ports of the MOUGOL X99 motherboard. Understanding the placement of key components will assist in the installation process.



Figure 3: Motherboard port layout, showing PS/2, USB 2.0, USB 3.0, Network, Audio, M.2, PCIe, SATA, and power interfaces.



Figure 4: Detailed specification diagram of the MOUGOL X99 Motherboard, highlighting 2*DDR4 slots, 6-phase power, LGA2011-3 socket, PCIeX16, PCIeX1, M.2, SATA2, SATA3, and rear I/O ports.

1.3. Component Installation

1.3.1. CPU Installation (LGA 2011-3)

The kit includes an Intel Xeon E5-2650 V3 CPU. Handle the CPU by its edges to avoid touching the gold contacts or the top surface. Open the CPU socket retention arm, align the triangular marker on the CPU with the corresponding marker on the socket, and gently place the CPU into the socket. Close the retention arm to secure the CPU.



Figure 5: Specifications for the included Intel Xeon E5-2650 V3 CPU (10 cores, 20 threads, 2.3GHz, 25MB L3 Cache, 105W TDP, LGA 2011-3) and MOUGOL DDR4 2133MHz 8GB memory module.

1.3.2. RAM Installation

The motherboard supports dual-channel DDR4 memory and has 4 DIMM slots. Insert the two 8GB DDR4 memory modules into the designated slots (refer to your motherboard manual for specific dual-channel slot configurations, typically alternating slots). Press down firmly on both ends of the memory module until the clips on the DIMM slots snap into place.

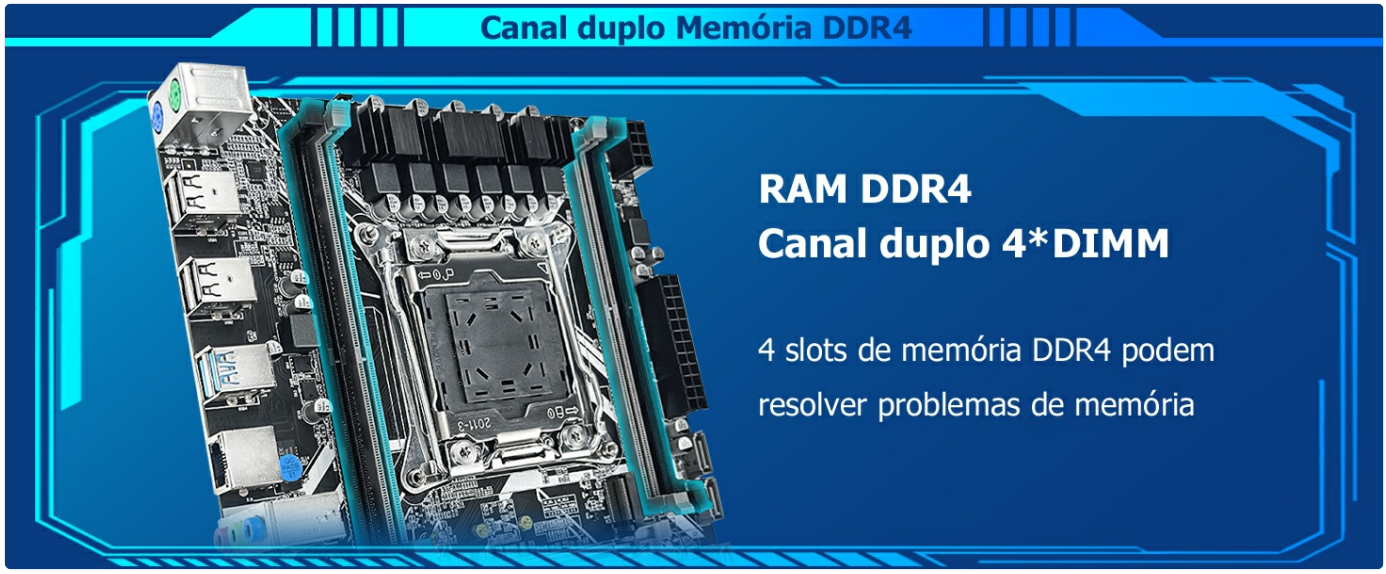


Figure 6: The MOUGOL X99 Motherboard features 4 DDR4 DIMM slots for dual-channel memory configuration.

1.3.3. Power Supply Connection

Connect the 24-pin ATX power connector and the 8-pin CPU power connector from your power supply unit (PSU) to the corresponding ports on the motherboard. A power supply of at least 500W from a reputable brand is recommended for stable operation.



Figure 7: The motherboard features a stable 6-phase power design and requires a 24+8 pin power connection.

1.3.4. Storage Devices (M.2, SATA)

The motherboard includes M.2 slots for NVMe/NGFF SSDs and SATA 2.0/3.0 ports for traditional hard drives or SSDs. Connect your storage devices using the appropriate cables and secure them within your PC case.

1.3.5. Peripheral Connections

Connect your peripherals such as keyboard, mouse, monitor, and network cable to the appropriate ports on the motherboard's rear I/O panel. The motherboard provides USB 2.0, USB 3.0, 1GB Ethernet, and audio ports.

2. Operating Instructions

2.1. First Boot and BIOS Setup

After assembling all components, connect your system to a power source and turn it on. The system should display the BIOS/UEFI screen. You may need to press a specific key (commonly DEL, F2, or F10) during startup to enter the BIOS setup. In the BIOS, you can configure boot order, system time, and other hardware settings. Save changes and exit the BIOS to proceed with operating system installation.

2.2. Driver Installation

Once the operating system is installed, it is crucial to install the latest drivers for the motherboard chipset, network adapter, audio, and any other integrated components. Drivers are typically available on the manufacturer's website or included on a driver CD/USB with the motherboard (if applicable). Installing correct drivers ensures optimal performance and stability.

3. Maintenance

3.1. Cleaning and Care

Regular cleaning of your computer system is essential for longevity and performance. Use compressed air to remove dust from the motherboard, CPU cooler, and case fans. Ensure the system is powered off and unplugged before cleaning. Avoid using liquid cleaners directly on components.

3.2. BIOS Updates

Periodically check the MOUGOL official website for BIOS updates. BIOS updates can improve system stability, add support for new hardware, or fix known issues. Follow the instructions provided by MOUGOL carefully when performing a BIOS update to avoid system damage.

4. Troubleshooting

This section provides solutions to common issues you might encounter.

- **No Power/No Boot:** Ensure all power cables (24-pin ATX, 8-pin CPU) are securely connected. Verify your power supply unit (PSU) is sufficient (minimum 500W recommended) and functioning correctly. Check the power button connection to the motherboard.
- **No Display:** Confirm the monitor is connected to the graphics card (if dedicated) or motherboard (if integrated graphics are used and supported by the CPU). Reseat the RAM modules. Try booting with only one RAM module.
- **Memory Errors:** If you experience frequent crashes or blue screens, reseat the memory modules. Test each memory module individually. Ensure memory is installed in the correct dual-channel slots.
- **Peripheral Not Detected:** Check USB, SATA, or other peripheral connections. Ensure drivers are installed for the respective devices.
- **System Instability:** Ensure all drivers are up to date. Check CPU and system temperatures to prevent overheating. Verify PSU stability.

For more complex issues, refer to the MOUGOL official support resources.

5. Technical Specifications

Below are the detailed technical specifications for the MOUGOL X99 Motherboard Upgrade Kit.



Figure 8: Key parameters of the MOUGOL X99 Motherboard.

Feature	Specification
Brand	MOUGOL
Model Number	MG-X99
Processor Socket	LGA 2011-3
Compatible Processors	Intel Xeon E5-2600 v3, Intel Xeon E5-2600 v4
Memory Technology	DDR4
Memory Slots	4 (Dual Channel)
Included Memory	2 x 8GB DDR4 2133MHz
Memory Clock Speed	2133 MHz
Storage Interfaces	M.2 (NVMe/NGFF), SATA 2.0, SATA 3.0
USB Ports	USB 2.0, USB 3.0
Ethernet	1GB Ethernet Port
Audio	Audio Port
Power Interface	24 + 8 Pin
Recommended PSU	Minimum 500W

Feature	Specification
Form Factor	M-ATX
Dimensions	215mm x 188mm (approx.)

6. Warranty and Support

MOUGOL provides warranty and customer support for products purchased directly from the official MOUGOL store. To ensure you receive valid warranty coverage and access to customer services, please verify that your purchase was made from the authorized MOUGOL seller. Purchases from unauthorized sellers may not be eligible for MOUGOL's warranty or support services.

For technical assistance, troubleshooting, or warranty claims, please contact MOUGOL customer support through the official channels provided on the MOUGOL website or your purchase platform.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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