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Foxconn H61MX

Foxconn H61MX Motherboard User Manual

Model: H61MX

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Foxconn H61MX LGA1155 Intel H61 DDR3 A&GbE MATX Motherboard. Please read this manual thoroughly before attempting any installation or configuration to ensure proper functionality and to prevent damage to your system components.

The Foxconn H61MX is a Micro-ATX motherboard designed to support Intel Sandybridge processors with an LGA1155 socket. It features the Intel H61 chipset, DDR3 memory support, integrated Gigabit Ethernet, and 5.1-channel high-definition audio.

2. SAFETY INFORMATION

Always observe the following safety precautions when working with computer hardware:

- Disconnect the power cord from the wall outlet before touching any components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to sensitive components.
- Handle components by their edges; avoid touching pins or circuitry.
- Ensure proper ventilation within your computer case to prevent overheating.
- Keep liquids away from your computer and its components.

3. PRODUCT OVERVIEW

The Foxconn H61MX motherboard provides a robust foundation for your computing needs. Below is an image illustrating the general layout of a motherboard, highlighting key areas relevant to the H61MX model.



This image displays the Foxconn H61MX motherboard, showcasing its various components such as the CPU socket, memory slots, expansion slots, and I/O ports. This visual aid helps in identifying the locations for component installation.

Key Components:

- **CPU Socket:** LGA1155 for Intel Sandybridge processors.
- **Chipset:** Intel H61 Express.
- **Memory Slots:** Two 240-pin DDR3 DIMM slots, supporting up to 8GB in dual channel mode.
- **Expansion Slots:** One PCI-Express 2.0 x16 slot, one PCI-Express x1 slot, and two PCI slots.
- **Storage:** Four SATA2 ports.
- **Audio:** Integrated 5.1-Channel High Definition Audio CODEC.
- **LAN:** Integrated Gigabit Ethernet Controller.
- **Rear I/O Ports:** Includes USB 2.0, PS/2, DVI, VGA, RJ45 LAN, and Audio I/O Jacks.

4. SETUP AND INSTALLATION

Follow these steps for proper installation of your motherboard and its components.

4.1. CPU Installation

1. Open the CPU socket lever on the LGA1155 socket.
2. Carefully align the CPU with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket.
3. Gently place the CPU into the socket without forcing it.
4. Close the socket lever to secure the CPU.
5. Apply thermal paste and install the CPU cooler according to its manufacturer's instructions.

4.2. Memory (RAM) Installation

1. Locate the two 240-pin DDR3 DIMM slots on the motherboard.
2. Open the clips at both ends of the memory 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 clips snap into place.

4.3. Expansion Card Installation

1. Identify the appropriate PCI-Express 2.0 x16, PCI-Express x1, or PCI slot for your expansion card.
2. Remove the corresponding metal bracket cover from your computer case.
3. Align the card with the slot and press down firmly until it is fully seated.
4. Secure the card with a screw to the computer case.

4.4. Storage Device Installation

1. Connect SATA data cables from your storage devices (HDD/SSD) to the four SATA2 ports on the motherboard.
2. Connect SATA power cables from your power supply to the storage devices.

4.5. Power Connections

1. Connect the 24-pin ATX main power connector from your power supply to the corresponding header on the motherboard.
2. Connect the 4-pin ATX 12V power connector to the motherboard.

4.6. Front Panel and Rear I/O Connections

1. Connect the front panel headers (power switch, reset switch, HDD LED, power LED, front USB, front audio) to their respective pins on the motherboard. Refer to the motherboard diagram for exact pin locations.
2. Ensure all external peripherals (monitor, keyboard, mouse, network cable) are connected to the appropriate rear I/O ports.

5. OPERATING INSTRUCTIONS

After completing the hardware installation, proceed with the initial boot and software setup.

5.1. Initial Boot and BIOS Setup

1. Power on your computer. During the Power-On Self-Test (POST), press the designated key (usually **DEL** or **F2**) to enter the BIOS/UEFI setup utility.
2. Configure basic settings such as date, time, boot order, and enable/disable integrated peripherals as needed.
3. Save changes and exit the BIOS. The system will restart.

5.2. Operating System and Driver Installation

1. Insert your operating system installation media (USB drive or DVD) and follow the on-screen prompts to install the OS.
2. Once the operating system is installed, install the necessary drivers for the motherboard. These typically include chipset drivers, audio drivers, and LAN drivers. Drivers can usually be found on the Foxconn support website or an included driver CD.
3. Ensure all drivers are up-to-date for optimal performance and stability.

6. MAINTENANCE

Regular maintenance helps ensure the longevity and stable operation of your motherboard.

- **Dust Removal:** Periodically clean dust from inside your computer case, especially from heatsinks and fans, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Cable Management:** Ensure cables are neatly routed to allow for proper airflow and prevent obstruction of components.
- **BIOS Updates:** Check the Foxconn website for BIOS updates. BIOS updates can improve compatibility, stability, and performance. Follow the update instructions carefully to avoid damaging the motherboard.
- **Driver Updates:** Keep your system drivers updated to ensure compatibility and optimal performance with your operating system and applications.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps.

7.1. No Power

- Check if the power supply is connected correctly to the motherboard (24-pin and 4-pin connectors).
- Ensure the power supply switch is in the 'ON' position.
- Verify that the front panel power switch is correctly connected to the motherboard header.
- Test the power supply with another system or a power supply tester.

7.2. No Display

- Ensure the monitor is connected to the correct video output (either integrated VGA/DVI or a discrete graphics card).
- Reseat the graphics card (if applicable) and memory modules.
- Try booting with only one memory module installed.
- Check if the CPU power connector is securely attached.

7.3. System Instability or Crashes

- Check for overheating. Ensure CPU cooler is properly installed and case fans are functioning.
- Run memory diagnostic tools to check for faulty RAM.
- Ensure all drivers are correctly installed and up-to-date.
- Verify that the power supply provides sufficient and stable power to all components.

8. SPECIFICATIONS

Detailed technical specifications for the Foxconn H61MX Motherboard:

Feature	Specification
CPU Socket	LGA1155
Compatible Processors	Intel Sandybridge processors (e.g., Core i3-2100, i5-2400, i7-2600)
Chipset	Intel H61 Express
Memory Slots	2x 240-pin DDR3 DIMMs

Feature	Specification
Memory Type	DDR3-1333/1066, Dual Channel
Max Memory Capacity	8GB
PCI-Express 2.0 x16 Slot	1
PCI-Express x1 Slot	1
PCI Slots	2
SATA Ports	4x SATA2
Audio	Integrated 5.1-Channel High Definition Audio CODEC
LAN	Integrated Gigabit Ethernet Controller
USB 2.0 Ports	10 (4 rear, 6 by headers)
PS/2 Ports	2
Video Output	1x DVI Port, 1x VGA Port
RJ45 LAN Port	1
Audio I/O Jacks	Yes
Form Factor	Micro-ATX
Dimensions	9.6 x 8 x 2 inches
Item Weight	2 pounds

9. WARRANTY AND SUPPORT

For warranty information, technical support, and driver downloads, please visit the official Foxconn website or contact their customer service department. Keep your proof of purchase for warranty claims.

For further assistance, consult the Foxconn support portal or contact their technical support team directly. Always provide your motherboard model (H61MX) and serial number when seeking support.