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ASUS Prime H370-Plus

ASUS Prime H370-Plus Motherboard User Manual

Model: Prime H370-Plus

1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your ASUS Prime H370-Plus motherboard. The ASUS Prime H370-Plus is designed to support 8th Generation Intel Core processors, offering a stable and feature-rich platform for your computing needs. It incorporates various technologies to enhance performance, reliability, and connectivity.



Figure 1.1: Overview of the ASUS Prime H370-Plus Motherboard. This image displays the general layout of the motherboard, including the CPU socket, RAM slots, PCIe slots, and various connectors.

2. Features

The ASUS Prime H370-Plus motherboard includes several features designed for system stability and performance:

- **LGA1151 Socket:** Supports 8th Generation Intel Core processors.
- **Intel H370 Chipset:** Provides a robust foundation for system operations.
- **Dual M.2 Slots:** Offers high-speed storage options with Intel Optane Memory compatibility.
- **USB 3.1 Gen2:** Delivers fast data transfer speeds for compatible peripherals.
- **5X Protection III:** Incorporates hardware-level safeguards for component longevity and reliability.
- **FanXpert 2+:** Provides advanced fan control for dynamic system cooling.
- **ASUS OptiMem:** Enhances memory stability and performance by improving signal integrity.
- **Multi-GPU Support:** Features CrossFireX for multiple graphics card configurations.

3. Setup and Installation

Before beginning installation, ensure your workspace is clean and static-free. Always wear an anti-static wrist strap to prevent damage to components. Refer to the detailed installation guide provided with your motherboard for comprehensive instructions.

3.1. Preparing the Motherboard

1. Unpack the motherboard and place it on an anti-static surface.
2. Install the CPU into the LGA1151 socket, ensuring correct orientation and securing the retention arm.
3. Install the CPU cooler according to its manufacturer's instructions.
4. Insert DDR4 memory modules into the DIMM slots. Ensure they are fully seated until the clips lock.
5. If using M.2 SSDs, install them into the M.2 slots and secure with the provided screws.

3.2. Installing into the PC Case

1. Install the I/O shield into the rear opening of your PC case.
2. Carefully place the motherboard into the case, aligning the screw holes with the standoffs.
3. Secure the motherboard with screws.
4. Install your graphics card(s) into the PCIe x16 slot(s) and secure them.
5. Connect the main 24-pin ATX power connector and the 8-pin CPU power connector from your power supply to the motherboard.
6. Connect front panel headers (power button, reset button, USB ports, audio jacks) to their respective pins on the motherboard. Refer to the motherboard diagram for pin locations.
7. Connect SATA data cables from your storage drives to the SATA ports on the motherboard.



Figure 3.1: Rear I/O Panel of the ASUS Prime H370-Plus Motherboard. This image shows the various external ports available for connecting peripherals, including USB, video outputs (HDMI, DVI, VGA), LAN, and audio jacks.

4. Operating System and Drivers

4.1. Initial Boot-up and BIOS Setup

After completing hardware installation, connect a monitor, keyboard, and mouse. Power on your system. Press the **DEL** or **F2** key during startup to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, and other advanced settings. Save and exit the BIOS after making any necessary changes.

4.2. Operating System Installation

Insert your operating system installation media (USB drive or DVD) and follow the on-screen prompts to install your preferred operating system. Ensure your boot order is set correctly in the BIOS to boot from the installation media.

4.3. Driver Installation

After installing the operating system, install the necessary drivers for your motherboard components. These typically include:

- Chipset drivers
- LAN (Ethernet) drivers
- Audio drivers
- USB drivers
- Graphics drivers (if using integrated graphics or a dedicated GPU)

Drivers can be found on the ASUS support website for your specific motherboard model.

5. Maintenance

Regular maintenance helps ensure the longevity and optimal performance of your motherboard and system.

- **Dust Removal:** Periodically clean dust from inside your PC case, especially from fans and heatsinks, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Check the ASUS support website for the latest BIOS updates. BIOS updates can improve compatibility, stability, and performance. Follow the update instructions carefully to avoid system damage.
- **Driver Updates:** Keep your system drivers updated to ensure compatibility with new software and hardware, and to benefit from performance improvements and bug fixes.
- **Connection Checks:** Occasionally check all internal cable connections (power, SATA, front panel) to ensure they are secure.

6. Troubleshooting

If you encounter issues with your system, consider the following basic troubleshooting steps:

- **No Power:** Ensure the power supply is connected correctly to the motherboard (24-pin and 8-pin connectors) and that the power supply switch is on. Check the front panel power button connection.
- **No Display (No POST):** Verify that the monitor is connected and powered on. Reseat the graphics card and memory modules. If using integrated graphics, ensure no dedicated GPU is installed or that the BIOS is configured to use integrated graphics.
- **System Instability/Crashes:** Check for proper CPU cooler installation and thermal paste application. Ensure RAM modules are correctly seated. Update BIOS and drivers. Test memory modules individually.
- **Peripheral Not Detected:** Ensure the peripheral is properly connected. Try a different port. Install or update relevant drivers.

For more advanced troubleshooting or persistent issues, consult the comprehensive user manual available on the ASUS support website or contact ASUS technical support.

7. Specifications

Component	Specification
Brand	ASUS
Model Number	Prime H370-Plus
CPU Socket	LGA 1151

Component	Specification
Compatible Processors	8th Generation Intel Core
Chipset Type	Intel H370
RAM Memory Technology	DDR4
Memory Clock Speed	2666 MHz
Memory Slots Available	4
Maximum Memory Capacity	64 GB
Graphics Card Interface	Integrated (via CPU)
Total Number of HDMI Ports	1
Total USB Ports	4 (Rear I/O) + Internal Headers
System Bus Standard Supported	SATA 3
Item Weight	16 ounces (approx. 453g)

8. Warranty and Support

8.1. Warranty Information

The ASUS Prime H370-Plus motherboard typically comes with a **3-year manufacturer's warranty**. Please retain your proof of purchase for warranty claims. The warranty covers defects in materials and workmanship under normal use. For specific terms and conditions, refer to the warranty card included with your product or visit the official ASUS website.

8.2. Technical Support

For technical assistance, driver downloads, BIOS updates, and additional documentation, please visit the official ASUS support website:

https://www.asus.com/support/

You can also contact ASUS customer service through the channels provided on their support page for direct assistance.

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