ASUS P8P67-M PRO

ASUS P8P67-M PRO Motherboard User Manual

Model: P8P67-M PRO

Brand: ASUS

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ASUS P8P67-M PRO Micro ATX Motherboard. This powerful uATX P67 motherboard supports intelligent performance features and SLI technology, designed for robust computing.

Figure 1: ASUS P8P67-M PRO Motherboard and Packaging.

This image displays the ASUS P8P67-M PRO motherboard alongside its retail packaging, highlighting the product's branding and key features.

SETUP AND INSTALLATION

Proper installation is crucial for the stability and performance of your system. Follow these steps carefully.

1. Component Compatibility

- **CPU:** This motherboard supports Intel Core i3, Intel Core i5, and Intel Core i7 processors with an LGA 1155 socket.
- **RAM:** Supports DDR3 2200 memory technology with a maximum capacity of 32 GB. For optimal compatibility and to avoid interference with CPU coolers, consider using low-profile memory modules.
- **Power Supply:** Ensure your power supply unit (PSU) provides sufficient wattage for all components, especially if installing multiple graphics cards (e.g., 550W for one high-end GPU, 650W or more for SLI/CrossFire configurations). Ensure the PSU has adequate PCI connectors.
- **Case:** As a Micro ATX (mATX) motherboard, it is designed for smaller form factor cases. However, ensure your case is wide enough (at least 7.5 inches) to accommodate larger CPU coolers and allow for proper cable management.

2. Motherboard Overview

Figure 2: ASUS P8P67-M PRO Component Layout.

This image provides a top-down view of the motherboard, illustrating the placement of the CPU socket, RAM slots, PCIe slots, SATA ports, and various headers.

Figure 3: ASUS P8P67-M PRO Rear I/O Panel.

This angled view highlights the rear input/output panel, showcasing the various ports available for connecting peripherals, including USB 3.0, audio jacks, and network ports.

3. Installation Steps

1. **Prepare the Case:** Install the I/O shield into the case's rear opening.
2. **Install CPU:** Carefully place the CPU into the LGA 1155 socket, aligning the triangular markers. Secure the CPU retention arm.
3. **Install CPU Cooler:** Mount your CPU cooler. Ensure adequate clearance, especially if using a large cooler, to avoid interference with RAM modules.
4. **Install RAM:** Insert DDR3 memory modules into the DIMM slots. Press down firmly until the clips on both ends lock into place.
5. **Mount Motherboard:** Secure the motherboard into the case using standoffs and screws.
6. **Connect Power:** Connect the 24-pin ATX power connector and the 8-pin CPU power connector from your PSU to the motherboard.
7. **Connect Storage Devices:** Connect SATA data cables to the SATA 6Gbps ports for high-speed storage.
8. **Install Expansion Cards:** Insert graphics cards into the PCIe x16 slots. This motherboard supports AMD CrossFireX for scalable graphics performance.
9. **Connect Front Panel Cables:** Connect the power button, reset button, USB 2.0/3.0, and audio headers from your case to the corresponding pins on the motherboard.

OPERATING INSTRUCTIONS

Once your system is assembled, you can proceed with initial setup and operation.

1. UEFI BIOS

The ASUS P8P67-M PRO features a UEFI BIOS, providing a graphical interface with mouse control for unparalleled configuration options. To access the BIOS, press the `DEL` key during system startup.

- **Navigation:** Use your mouse or keyboard to navigate through the various settings.
- **Boot Options:** Configure boot order for your operating system installation.
- **System Information:** View details about your installed CPU, RAM, and other hardware.
- **Advanced Settings:** Access detailed configurations for CPU, chipset, and peripheral devices.

2. Key Features

- **EPU (Energy Processing Unit):** This system-level energy saving and real-time power management feature optimizes power efficiency.
- **Anti-Surge Protection:** Safeguards your device by providing voltage protection to all major onboard components.
- **MemOK!:** Quickly ensures memory boot compatibility with a mere push of a button, resolving common memory-related boot issues.
- **Quick Boot:** Utilizes features for faster system startup.
- **AMD CrossFireX Support:** Allows for scalable graphics performance by installing multiple AMD graphics cards.

3. Overclocking

The motherboard is designed with overclocking capabilities. While ASUS provides tools like AI Suite for automatic overclocking, for maximum stability and performance, manual overclocking through the UEFI BIOS is recommended. Exercise caution and ensure adequate cooling when overclocking.

MAINTENANCE

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

- **Dust Removal:** Periodically clean dust from inside your computer case, especially from fans and heatsinks, to maintain proper airflow and prevent overheating. Use compressed air for best results.
- **BIOS Updates:** Keep your UEFI BIOS updated to the latest version available from the ASUS support website. BIOS updates can improve compatibility, stability, and add new features. Follow ASUS's official update procedures carefully to avoid issues.
- **Driver Updates:** Ensure all system drivers (chipset, graphics, audio, network) are kept up-to-date for optimal performance and stability.

TROUBLESHOOTING

This section addresses common issues you might encounter.

- **System Instability (BSOD/Lockups):**

  - Verify all power connections are secure.
  - Check RAM modules are properly seated. Use the MemOK! button if experiencing memory-related boot failures.
  - Ensure CPU cooler is correctly installed and making good contact with the CPU.
  - If overclocking, revert to default settings to check for stability.
  - Check for updated drivers and BIOS.

- **No Display/No Boot:**

  - Confirm monitor is connected and powered on.
  - Reseat graphics card and RAM modules.
  - Check CPU power connection.
  - If a recent BIOS flash occurred, attempt to use the ASUS CrashFree BIOS 3 feature for recovery (refer to ASUS documentation for specific steps).

- **Peripheral Recognition Issues:**

  - Ensure devices are properly connected to the correct ports (e.g., USB 3.0 devices to USB 3.0 ports).
  - Install or update relevant drivers for the peripheral.
  - Check BIOS settings for port enablement.

SPECIFICATIONS

Feature	Detail
Model Name	P8P67-M PRO
Brand	ASUS
CPU Socket	LGA 1155
Compatible Processors	Intel Core i3, Intel Core i5, Intel Core i7
Chipset Type	Intel P67
RAM Memory Technology	DDR3 2200
Memory Clock Speed	1333 MHz
Memory Storage Capacity (Max)	32 GB
Product Dimensions	2.33 x 11.3 x 11.1 inches
Item Weight	2.3 pounds
Manufacturer	ASUS Computer International Direct
Date First Available	February 27, 2011

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the warranty card included with your product or visit the official ASUS website. ASUS provides comprehensive support resources, including FAQs, driver downloads, and contact information for technical assistance.
ASUS Official Support: https://www.asus.com/support/

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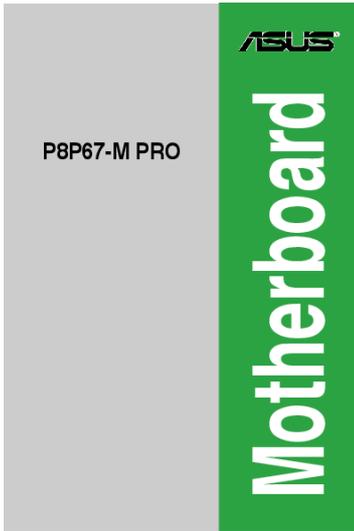
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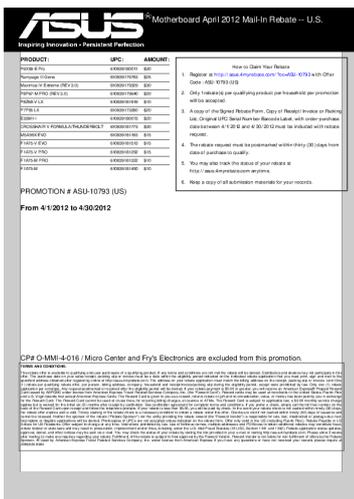
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[Intel CPU Socket Compatibility Guide: LGA1156, LGA1155, LGA1366 Motherboard Lists](#)

A comprehensive compatibility guide detailing motherboards from manufacturers like ASRock, Asus, Biostar, Elitegroup, EVGA, Foxconn, Gigabyte, Intel, and MSI for Intel CPU sockets LGA1156, LGA1155, and LGA1366, including model numbers and socket specifications.

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