ASUS P8P67 EVO

ASUS P8P67 EVO LGA 1155 Motherboard User Manual

Model: P8P67 EVO

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of the ASUS P8P67 EVO LGA 1155 motherboard. Designed for Intel P67 chipset, this ATX motherboard supports LGA 1155 processors and features advanced technologies such as SATA 6Gbps and USB 3.0.

Please read this manual thoroughly before proceeding with installation or operation to ensure proper functionality and to prevent damage to the components.

2. SETUP AND INSTALLATION

2.1 Package Contents

Verify that all components listed in your product's packaging are present. Contact your retailer if any items are missing or damaged.
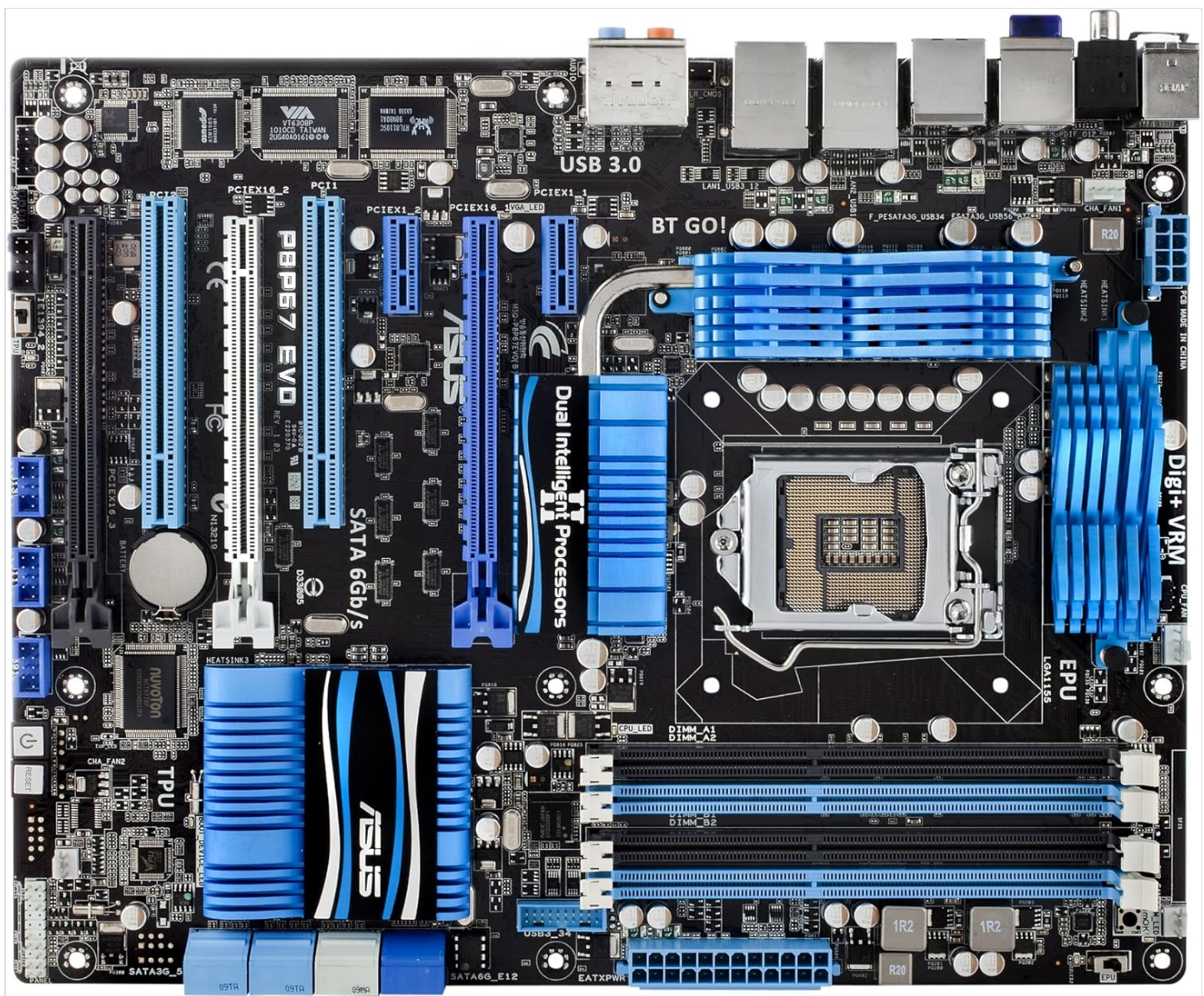
2.2 Motherboard Layout

Figure 2.2.1: Top-down view of the ASUS P8P67 EVO motherboard.

The image above displays the main components of the ASUS P8P67 EVO motherboard, including the LGA 1155 CPU socket, four DDR3 DIMM slots, multiple PCIe x16 and x1 slots, SATA 6Gbps ports, and various headers for front panel connections.

2.3 CPU Installation

1. Carefully open the CPU socket lever.
2. Align the triangular mark on the Intel LGA 1155 CPU with the corresponding mark on the socket.
3. Gently place the CPU into the socket without forcing it.
4. Close the socket lever to secure the CPU.
5. Install the CPU cooler according to its manufacturer's instructions.

2.4 Memory (RAM) Installation

The motherboard supports DDR3 memory modules. For optimal performance, install memory in dual-channel configuration.

1. Open the clips at both ends of the DIMM slot.
2. Align the memory module's notch with the key in the DIMM slot.
3. Press down firmly on both ends of the memory module until the clips snap into place.

2.5 Connecting Storage Devices

Connect your SATA 6Gbps storage devices (HDDs, SSDs) to the designated SATA ports on the motherboard using

SATA data cables. Ensure power cables from the power supply are also connected to the devices.

2.6 Power Connections

Connect the 24-pin ATX power connector and the 8-pin ATX 12V power connector from your power supply to the corresponding ports on the motherboard.

2.7 Front Panel and Peripheral Connections

Connect the front panel headers (power button, reset button, HDD LED, power LED) to their respective pins on the motherboard. Connect USB 2.0, USB 3.0, and audio headers as needed. Install expansion cards (graphics card, sound card, etc.) into the appropriate PCIe slots.

Figure 2.7.1: Rear I/O Panel of the ASUS P8P67 EVO motherboard.

The image above illustrates the rear input/output panel, featuring ports for USB 2.0, USB 3.0, Ethernet, audio, and legacy PS/2 connectors for keyboard and mouse.

3. OPERATING INSTRUCTIONS

3.1 Initial Boot and BIOS/UEFI Setup

Upon first power-on, the system will typically enter the BIOS/UEFI setup utility. The ASUS P8P67 EVO features an EFI BIOS with a graphical interface and mouse support, allowing for intuitive navigation and configuration.

- Press the designated key (usually DEL or F2) during startup to enter the BIOS/UEFI setup.
- Configure boot order, system time, and other essential settings.
- Save changes and exit to proceed with operating system installation.

3.2 Key Features and Technologies

- **DIGI+VRM:** Digital power design for enhanced system stability and power efficiency.
- **EPU:** System-level energy saving and real-time power management for superb platform power efficiency.
- **TPU:** Increases platform performance instantly with self-optimized settings while retaining full system stability.
- **MemOK!:** Ensures memory compatibility by automatically adjusting memory settings to allow the system to boot. Press the MemOK! button if memory-related boot issues occur.
- **BT GO!:** Integrated Bluetooth functionality for wireless connectivity.
- **iGPU Level Up:** Enhances integrated graphics performance.
- **Intel Gb LAN:** High-performance, high-bandwidth data transfers with Intel's network stability.

3.3 Driver Installation

After installing your operating system, install the necessary drivers from the provided support DVD or the ASUS website. This includes chipset drivers, audio drivers, LAN drivers, and USB 3.0 drivers to ensure all components function correctly.

4. MAINTENANCE

4.1 System Cleaning

Regularly clean your computer's interior to prevent dust buildup, which can lead to overheating and reduced performance. Use compressed air to remove dust from fans, heatsinks, and motherboard components.

4.2 BIOS/UEFI Updates

Periodically check the ASUS support website for updated BIOS/UEFI versions. Updates can provide improved compatibility, stability, and new features. Follow the instructions provided by ASUS for safe BIOS/UEFI flashing.

4.3 Driver Updates

Keep your system drivers updated to ensure optimal performance and compatibility with new software and hardware. Download the latest drivers from the ASUS official website.

5. TROUBLESHOOTING

This section addresses common issues you might encounter with your ASUS P8P67 EVO motherboard.

5.1 No Power or No POST (Power-On Self-Test)

- **Check Power Connections:** Ensure the 24-pin ATX and 8-pin ATX 12V power connectors are securely seated.
- **Verify Components:** Confirm CPU, RAM, and graphics card are correctly installed and seated.
- **Clear CMOS:** Refer to your motherboard's specific instructions for clearing the CMOS (BIOS settings reset). This can resolve boot issues caused by incorrect settings.
- **Test with Minimal Components:** Remove all non-essential components (extra drives, expansion cards) and try booting with only CPU, one RAM stick, and graphics card.

5.2 Memory Related Issues

If the system fails to boot or experiences instability due to memory, try the following:

- **Use MemOK! Button:** Press the MemOK! button on the motherboard (if available) to automatically adjust memory settings for compatibility.
- **Reseat Memory:** Remove and reinsert memory modules to ensure proper contact.
- **Test Single Stick:** Test each memory module individually in different slots to identify a faulty stick or slot.
- **Check QVL:** Refer to the Qualified Vendor List (QVL) on the ASUS website for compatible memory modules.

5.3 Peripheral Detection Problems

- **Check Connections:** Ensure all cables (SATA, USB, etc.) are securely connected.
- **Update Drivers:** Install or update relevant drivers (e.g., USB 3.0 drivers).
- **BIOS/UEFI Settings:** Verify that the ports are enabled in the BIOS/UEFI settings.

6. SPECIFICATIONS

Feature	Specification
Brand	ASUS
Model	P8P67 EVO
CPU Socket	LGA 1155
Chipset Type	Intel P67

Feature	Specification
RAM Memory Technology	DDR3 DIMM
Memory Slots Available	4
Memory Storage Capacity (Max)	32 GB
Memory Clock Speed	1333 MHz (Supports higher via OC)
SATA Ports	SATA 6Gbps supported
USB Ports	USB 3.0 supported
Platform	Windows 10 (Compatible)
Product Dimensions	3.32 x 11.9 x 14.37 inches
Item Weight	9.6 ounces
Date First Available	February 27, 2011

7. WARRANTY AND SUPPORT

7.1 Warranty Information

ASUS products are covered by a limited warranty. For specific warranty terms and conditions, please refer to the warranty card included with your product or visit the official ASUS website. Warranty coverage typically includes defects in materials and workmanship under normal use.

7.2 Technical Support

For technical assistance, driver downloads, or further product information, please visit the official ASUS support website:

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

You may also contact ASUS customer service directly through the contact information provided on their website.