

Bewinner B75M

Bewinner B75M Motherboard User Manual

Model: B75M

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Bewinner B75M Motherboard. Please read this manual thoroughly before proceeding with installation or use to ensure proper functionality and to prevent damage.

2. KEY FEATURES

- **DDR3 Memory Support:** Equipped with 2 DDR3 memory slots, supporting Intel Core i7, i5, and i3 (LGA1155) processors.
- **High-Speed Network:** Features a 100M Ethernet interface for reliable network connectivity.
- **Durable Construction:** Manufactured with PCB material for enhanced stability and performance.
- **Digital HD Video Output:** Includes VGA and High Definition Multimedia Interface (HDMI) for clear visual output.
- **Stable Power Delivery:** Designed with a multi-phase power supply for stable and accurate power distribution, optimizing CPU performance and thermal management.

3. PRODUCT OVERVIEW

Familiarize yourself with the components and layout of your Bewinner B75M Motherboard.



Figure 3.1: Bewinner B75M Motherboard highlighting LGA1155 socket, DDR3 slots, HDMI/VGA ports, and M-ATX form factor.

B75-MS Structural Diagram

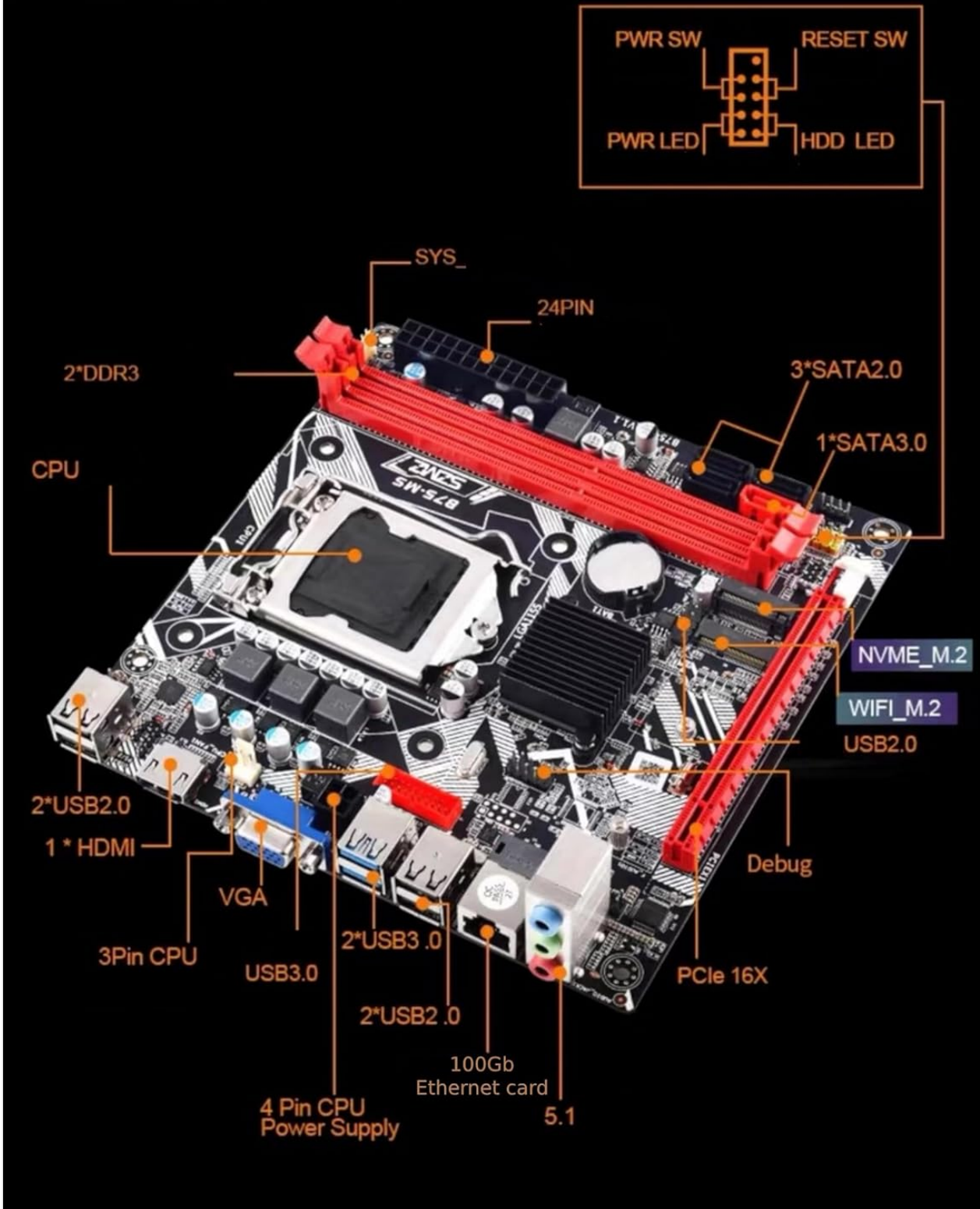


Figure 3.2: Structural diagram of the B75M motherboard, detailing the location of various connectors and components such as CPU socket, RAM slots, SATA ports, USB headers, and I/O panel connectors.

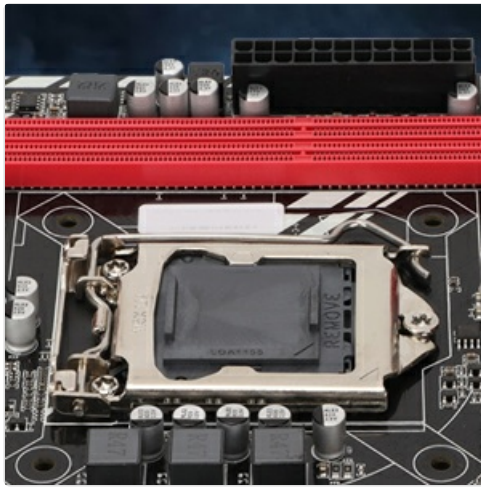


Figure 3.3: Close-up of the LGA1155 CPU socket, where the processor is installed.



Figure 3.4: Detailed view of the rear I/O panel, including USB ports, Ethernet port, and audio jacks.



Figure 3.5: Close-up of the VGA and HDMI ports for connecting display devices.

Package List :



Figure 3.6: The package typically includes the B75M motherboard, an I/O shield, and a SATA data cable.

4. SETUP AND INSTALLATION

Follow these steps to properly install your Bewinner B75M Motherboard into your computer system.

4.1. Preparing for Installation

- Ensure your computer is powered off and unplugged from the wall outlet.
- Discharge any static electricity by touching a grounded metal object.
- Gather necessary tools: Phillips-head screwdriver, zip ties (optional for cable management).

4.2. CPU Installation

1. Locate the LGA1155 CPU socket on the motherboard (refer to Figure 3.3).
2. Open the CPU socket lever and lift the metal retention plate.
3. Carefully align the CPU with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket. Do not force the CPU into place.
4. Lower the retention plate and secure it with the lever.
5. Apply a thin, even layer of thermal paste to the top of the CPU (if not pre-applied to the cooler).
6. Install the CPU cooler according to its manufacturer's instructions.

4.3. Memory (RAM) Installation

1. Locate the DDR3 memory slots on the motherboard.
2. Open the clips at both ends of the memory slot.
3. Align the notch on the DDR3 memory module with the key in the memory slot.
4. Press down firmly on both ends of the memory module until the clips snap into place.

4.4. Storage Device Installation

1. Connect your SATA storage devices (HDDs/SSDs) to the SATA 3.0 or SATA 2.0 ports on the motherboard using SATA data cables (refer to Figure 3.2).
2. Connect the 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 port on the motherboard.
2. Connect the 4-pin or 8-pin CPU power connector (EPS12V) from your power supply to the CPU power port near the CPU socket.

4.6. Graphics Card Installation (Optional)

1. Locate the PCIe x16 slot on the motherboard.
2. Remove the corresponding expansion slot cover from your computer case.
3. Align the graphics card with the PCIe slot and press down firmly until it is seated correctly and the retention clip locks.
4. Secure the graphics card to the case with a screw.
5. Connect any necessary PCIe power cables from your power supply to the graphics card.

4.7. Front Panel Connections

Connect the front panel cables (power button, reset button, USB ports, audio jacks, power LED, HDD LED) from your computer case to the corresponding headers on the motherboard. Refer to the structural diagram (Figure 3.2) for header locations.

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Video 4.1: Overview of a B75 Motherboard, demonstrating its LGA 1155 Socket and DDR3 Memory Support. This video provides a visual guide to the motherboard's layout and key features.

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Video 4.2: A brief demonstration of handling a desktop computer motherboard, showcasing its various ports and overall design. Useful for understanding physical interaction with the board.

5. OPERATING INSTRUCTIONS

5.1. First Boot

1. After completing all hardware connections, connect your monitor, keyboard, and mouse.
2. Plug in the power cord and turn on your power supply.
3. Press the power button on your computer case.
4. The system should power on and display the BIOS/UEFI splash screen.

5.2. BIOS/UEFI Configuration

To enter the BIOS/UEFI setup utility, press the **DEL** or **F2** key during the boot process (before the operating system loads). In the BIOS/UEFI, you can configure system settings such as boot order, date/time, and hardware parameters.

5.3. Operating System and Driver Installation

1. Install your preferred operating system (e.g., Windows 10) from a bootable USB drive or DVD.
2. After the operating system is installed, install the necessary drivers for the motherboard components (chipset, audio, LAN, etc.). These drivers are typically provided on a driver CD or can be downloaded from the manufacturer's website.

6. MAINTENANCE

6.1. Cleaning

- Regularly clean dust from inside your computer case, especially around the motherboard, CPU cooler, and fan vents.
- Use compressed air and a soft brush. Ensure the system is powered off and unplugged before cleaning.

6.2. BIOS Updates

Periodically check the Bewinner support website for BIOS updates. BIOS updates can improve system stability, add support for new hardware, or fix bugs. Follow the instructions provided with the BIOS update utility carefully to avoid damaging your motherboard.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common problems and solutions:

- **No Power/No Boot:**
 - Check all power connections (24-pin ATX, 4/8-pin CPU, graphics card).
 - Ensure the power supply is switched on.
 - Verify front panel power button connection.
- **No Display:**
 - Ensure the monitor is connected to the correct video output (motherboard or graphics card).
 - Reseat the graphics card and memory modules.
 - Test with a different monitor or cable.
- **System Instability/Crashes:**
 - Check CPU and GPU temperatures.
 - Ensure all drivers are correctly installed and up to date.
 - Run memory diagnostic tools to check for RAM errors.
- **Peripheral Not Detected:**
 - Try connecting the device to a different port.
 - Install or update relevant drivers.
 - Check BIOS/UEFI settings for port enablement.

8. SPECIFICATIONS

Feature	Specification
Brand	Bewinner
Model Name	B75M
CPU Socket	LGA 1155
Compatible Processors	Intel Core i3, Intel Core i5, Intel Core i7 (LGA1155)

Feature	Specification
Chipset Type	Intel B75 Express
RAM Memory Technology	DDR3
Memory Slots Available	2
Memory Clock Speed	1333 MHz
Maximum RAM Memory Size	16 GB
Graphics Card Interface	PCI, PCI Express
Total PCIe Ports	8
Total SATA Ports	4 (SATA 3.0 x1, SATA 2.0 x3)
System Bus Standard Supported	SATA 3
Total USB Ports	4 (USB 2.0)
Number of Ethernet Ports	1 (100M)
Total Number of HDMI Ports	1
Main Power Connector Type	24-Pin
Compatible Devices	Personal Computer, Desktop
Platform	Windows 10
Parcel Dimensions	21.49 x 19.51 x 5.51 cm
Item Weight	522 g
Country of Origin	China

9. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official Bewinner website. Keep your proof of purchase for any warranty claims. Bewinner is committed to providing quality products and a pleasant shopping experience. For further assistance, please contact customer service.