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Diyeeni B75

Diyeeni B75 LGA1155 Motherboard User Manual

Model: B75

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Diyeeni B75 LGA1155 Motherboard. This Micro ATX motherboard is designed to support 2nd and 3rd generation Intel Core i3, i5, i7, E3/V2 series, Celeron G series, and Pentium G series processors. It features DDR3 memory support, PCIe 3.0, NVME M.2, SATA3.0 6Gbs, VGA, HDMI, and 10 Mbps LAN connectivity.

2. PRODUCT OVERVIEW

The Diyeeni B75 motherboard offers a robust platform for building a reliable computer system. Below are some key features and a visual overview of the product.

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Video 1: Product Overview - This video provides a general overview of the Diyeeni B75 LGA1155 Motherboard, highlighting its design and key components.

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Video 2: Product Demonstration - This video demonstrates various aspects of the motherboard, offering a closer look at its features and functionality.

B75 MOTHERBOARD WITH M.2 INTERFACE

The B75 desktop motherboard features a high speed M.2 interface, complete with jumper support for double mode NVME and NGFF connections, allowing users to switch between PCIe and ATA3.0 (6GB/s) channels for optimal storage performance.



Figure 1: B75 Motherboard with M.2 Interface. The B75 desktop motherboard features a high-speed M.2 interface, complete with jumper support for double mode NVME and NGFF connections, allowing users to switch between PCIe and ATA3.0 (6GB/s) channels for optimal storage performance.

DOUBLE CHANNEL 2x8GB DDR3 MEMORY SLOTS

This motherboard supports two 240 pin DDR3 SDRAM slots, allowing for a maximum capacity of 16GB in a double channel architecture, with effective frequencies of 1066, 1333, and 1600 MHz, enhancing performance for gaming and multitasking needs.

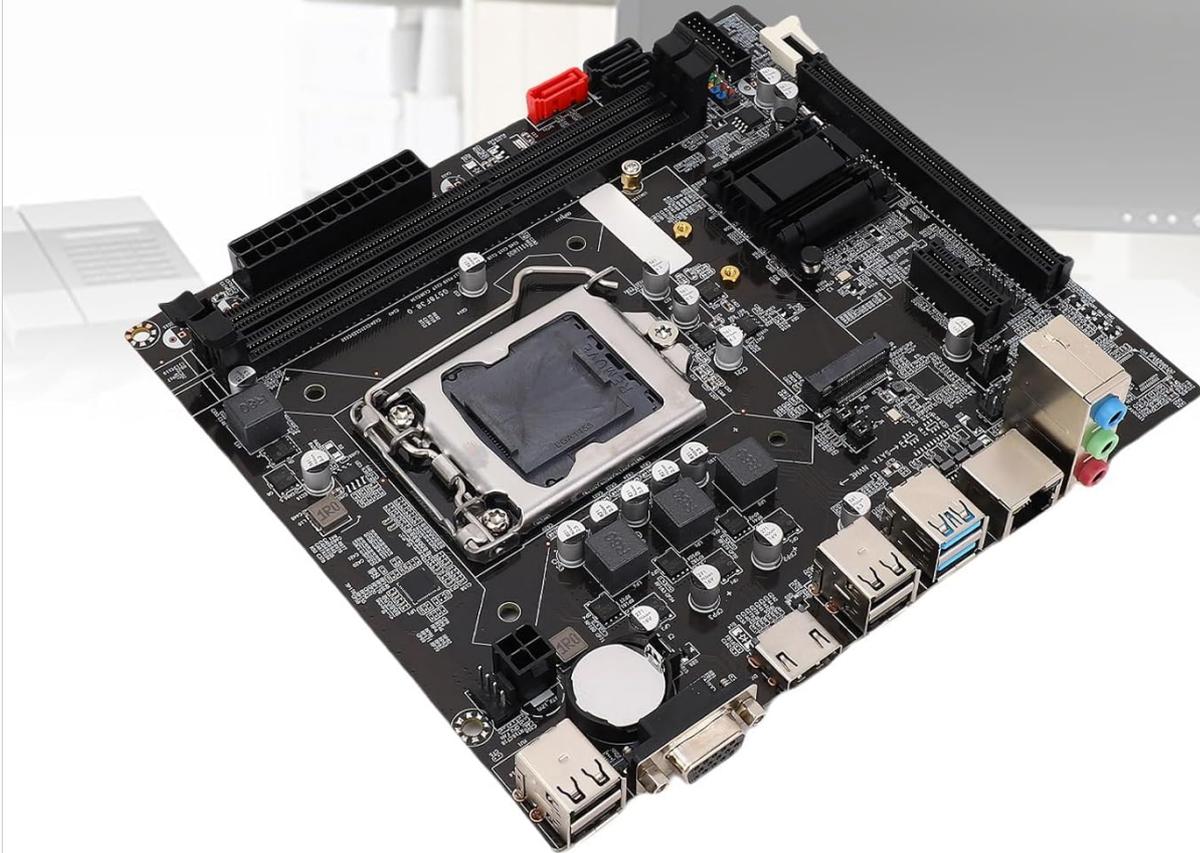


Figure 2: Double Channel 2x8GB DDR3 Memory Slots. This motherboard supports two 240-pin DDR3 SDRAM slots, allowing for a maximum capacity of 16GB in a double channel architecture, with effective frequencies of 1066, 1333, and 1600 MHz, enhancing performance for gaming and multitasking needs.

SUPPORT FOR VARIOUS PROCESSORS

For LGA 1155 motherboard utilizes the B75 chipset, supporting for 2nd and 3rd generation for Core i3, i5, i7, for Xeon E3/V2 series, for Celeron G series, and for Pentium G series processors, including popular models like for E3 1280 V2 and for Core i7 3770K.

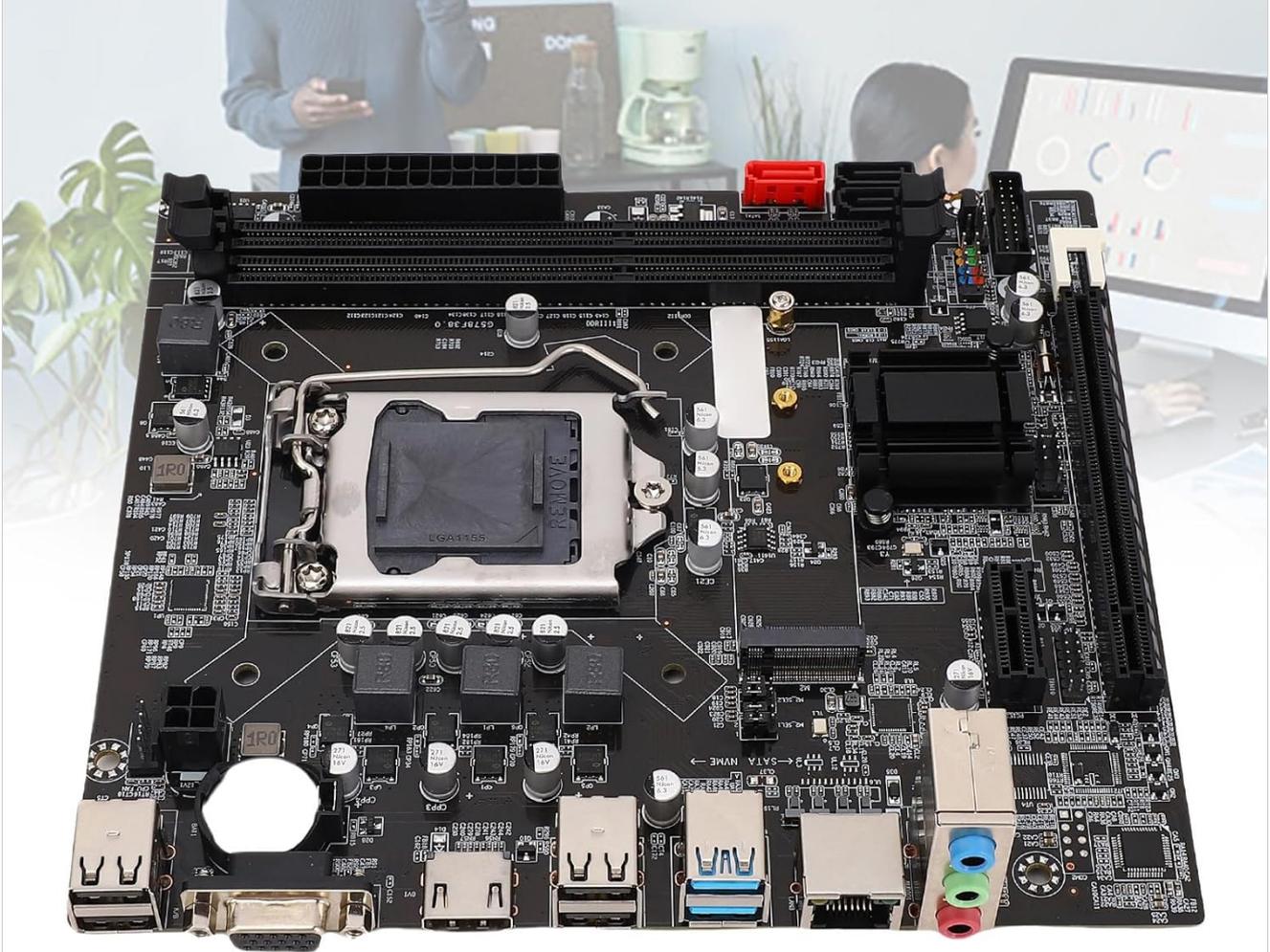


Figure 3: Support for Various Processors. The LGA 1155 motherboard utilizes the B75 chipset, supporting 2nd and 3rd generation Intel Core i3, i5, i7, E3/V2 series, Celeron G series, and Pentium G series processors, including popular models like E3 1280 V2 and Core i7 3770K.

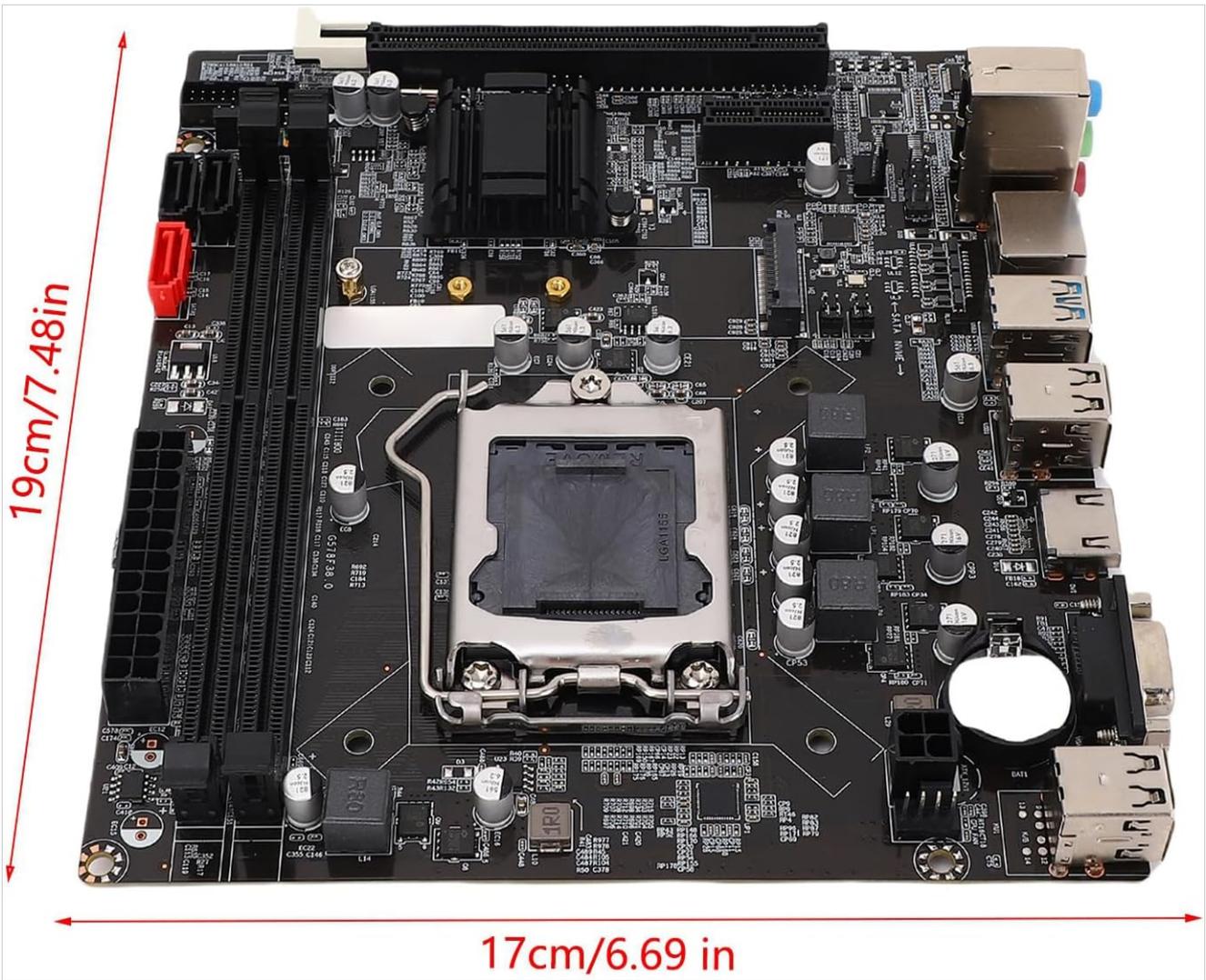


Figure 4: Motherboard Dimensions. The motherboard features an M-ATX architecture with approximate dimensions of 17 x 19 cm (6.69 x 7.48 inches).



Figure 5: LGA1155 Socket Close-up. A detailed view of the LGA1155 CPU socket, designed for compatible Intel processors.

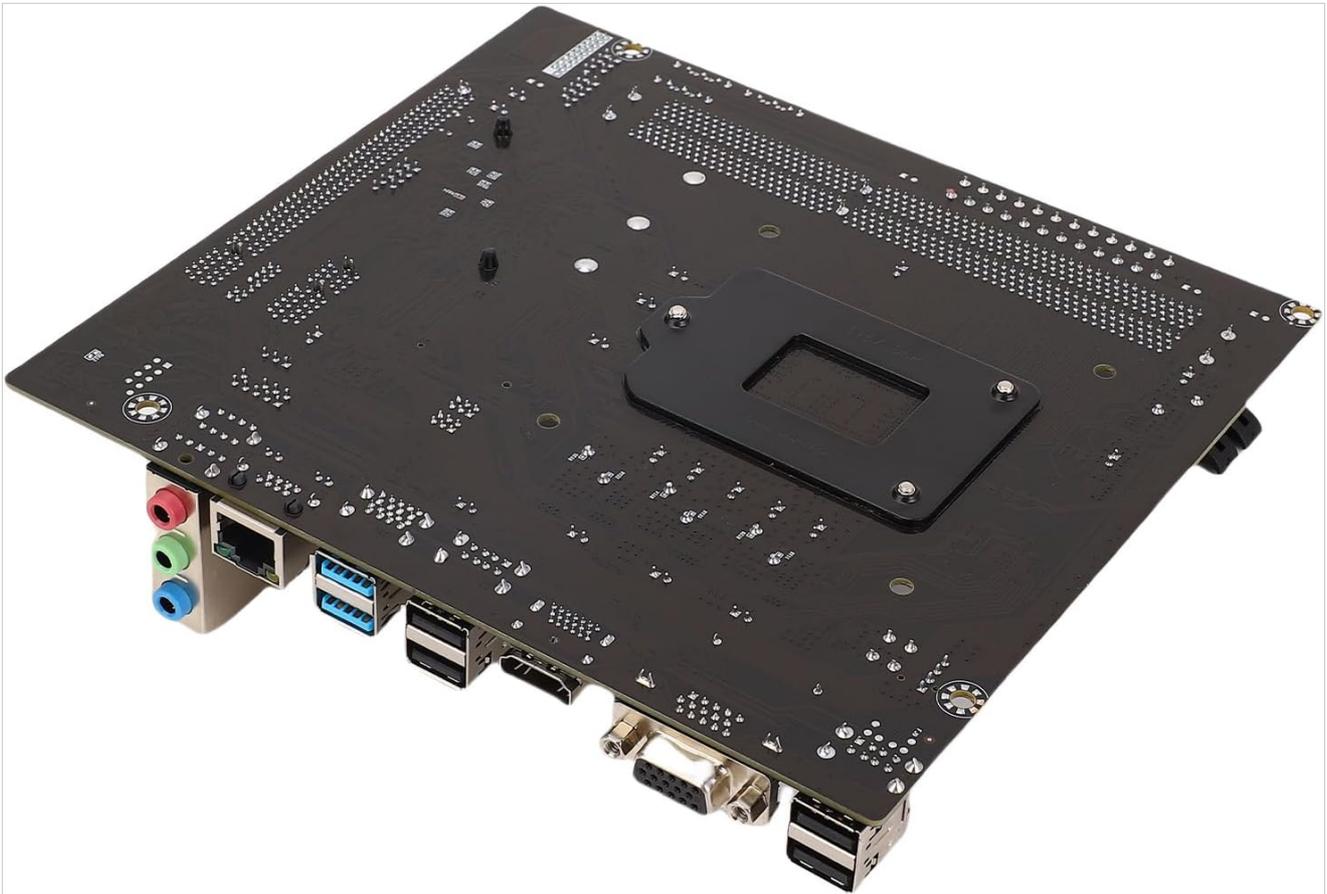


Figure 6: Rear I/O Panel. This image shows the various input/output ports available on the rear of the motherboard, including USB, video outputs, and audio jacks.

3. SETUP

3.1 CPU Installation

Follow these steps carefully to install your CPU into the LGA1155 socket:

1. Press down on the lever next to the CPU socket and lift it.
2. Open the CPU cover.
3. Align the triangle symbols on the CPU and the socket, then gently place the CPU into the socket.
4. Remove the CPU plastic cover.
5. Align the groove with the screw hole and lower the lever to secure the CPU.

Installation Considerations:

- Do not touch CPU contacts with your hands.
- Do not touch CPU pins on the motherboard.

《 CPU installation steps 》

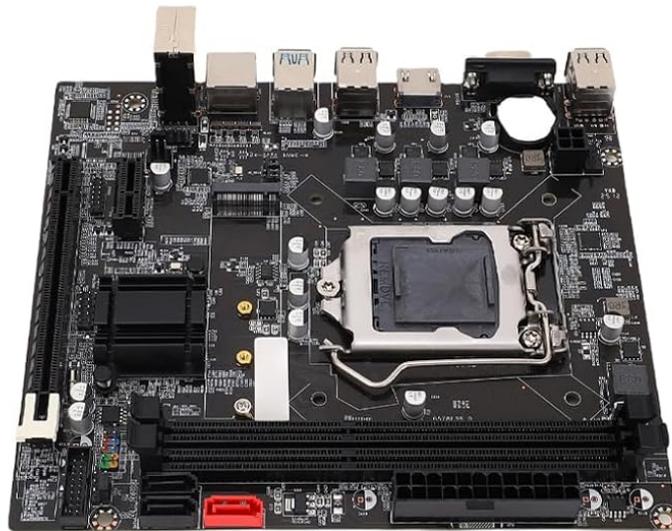
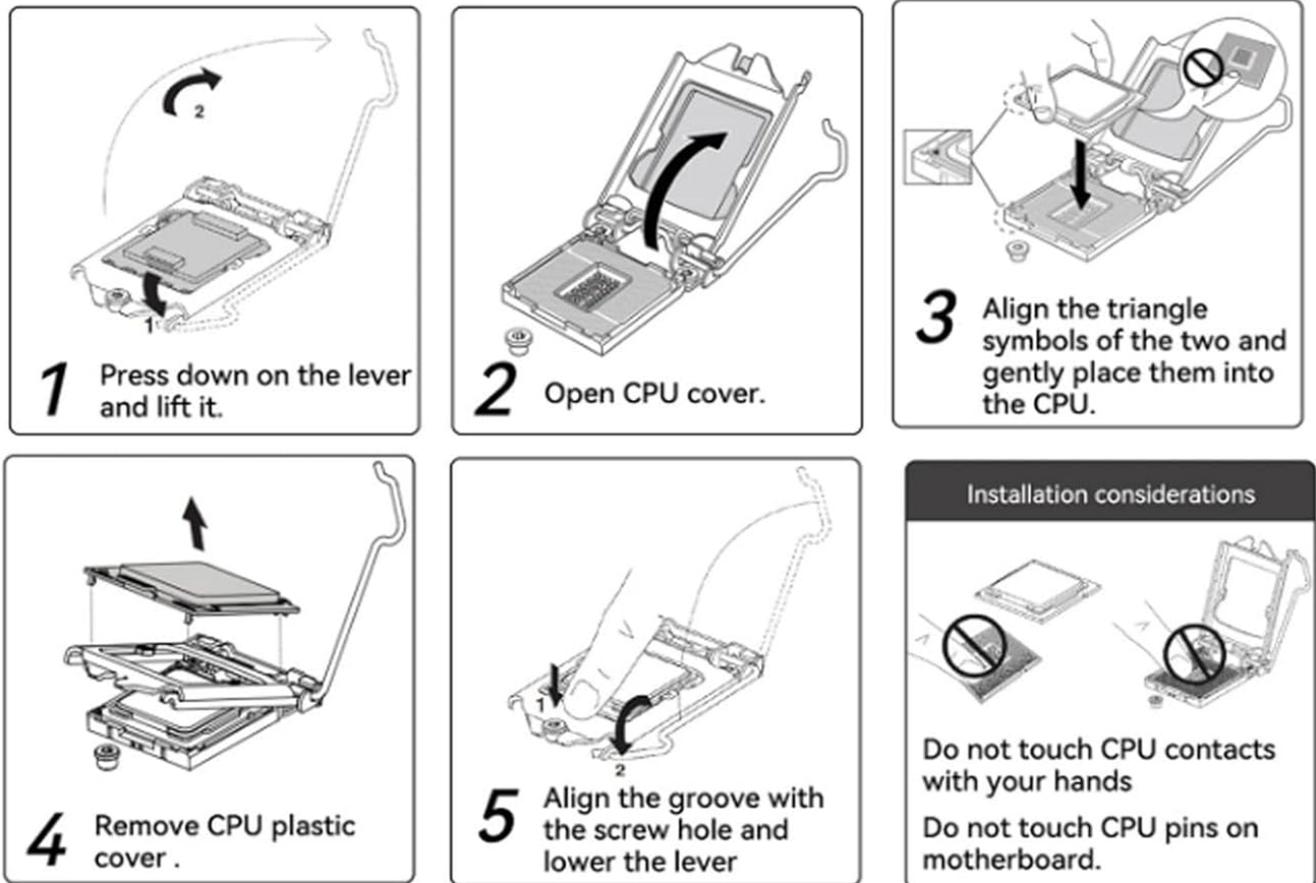


Figure 7: CPU Installation Steps. A visual guide for correctly installing the CPU into the motherboard socket.

3.2 Memory Installation

The motherboard features two 240-pin DDR3 SDRAM slots. It supports dual-channel DDR3 memory at speeds of 1066/1333/1600 MHz, with a maximum capacity of 16GB. Ensure memory modules are installed in matching slots for dual-channel operation.

3.3 Storage Installation

- **SATA Drives:** Connect SATA 2.0 (3Gb/s) or SATA 3.0 (6Gb/s) drives to the available ports. The motherboard includes two ATA2.0 ports and one ATA3.0 port.
- **NVME M.2 SSD:** The high-speed M.2 interface supports both NVME and NGFF connections. Use the provided jumper to switch between PCIe and ATA3.0 (6GB/s) channels as needed for your M.2 SSD.

3.4 Power Connections

Connect the main 24-pin ATX power connector and the 4-pin ATX 12V power connector from your power supply to the corresponding ports on the motherboard. Ensure connections are firm to maintain circuit reliability.

3.5 Expansion Cards

The motherboard provides one PCI Express x16 slot for a graphics card and one PCI Express x1 slot for other expansion cards.

4. OPERATING

4.1 Initial Boot and BIOS Configuration

Upon initial power-on, the system will perform a Power-On Self-Test (POST). You may need to enter the BIOS/UEFI setup to configure boot order, system time, and other settings. Refer to your CPU and memory documentation for optimal settings.

4.2 Integrated Graphics Output

The motherboard supports 1080P HD video output via VGA and High Definition Multimedia Interface (HDMI) ports. To utilize these interfaces, your CPU must support integrated graphics.

VGA AND HD MULTIMEDIA OUTPUTS

This motherboard enables 1080P HD video output without requiring a dedicated graphics card. Keep in mind that your CPU must support integrated graphics to utilize these two interfaces effectively for high definition display.

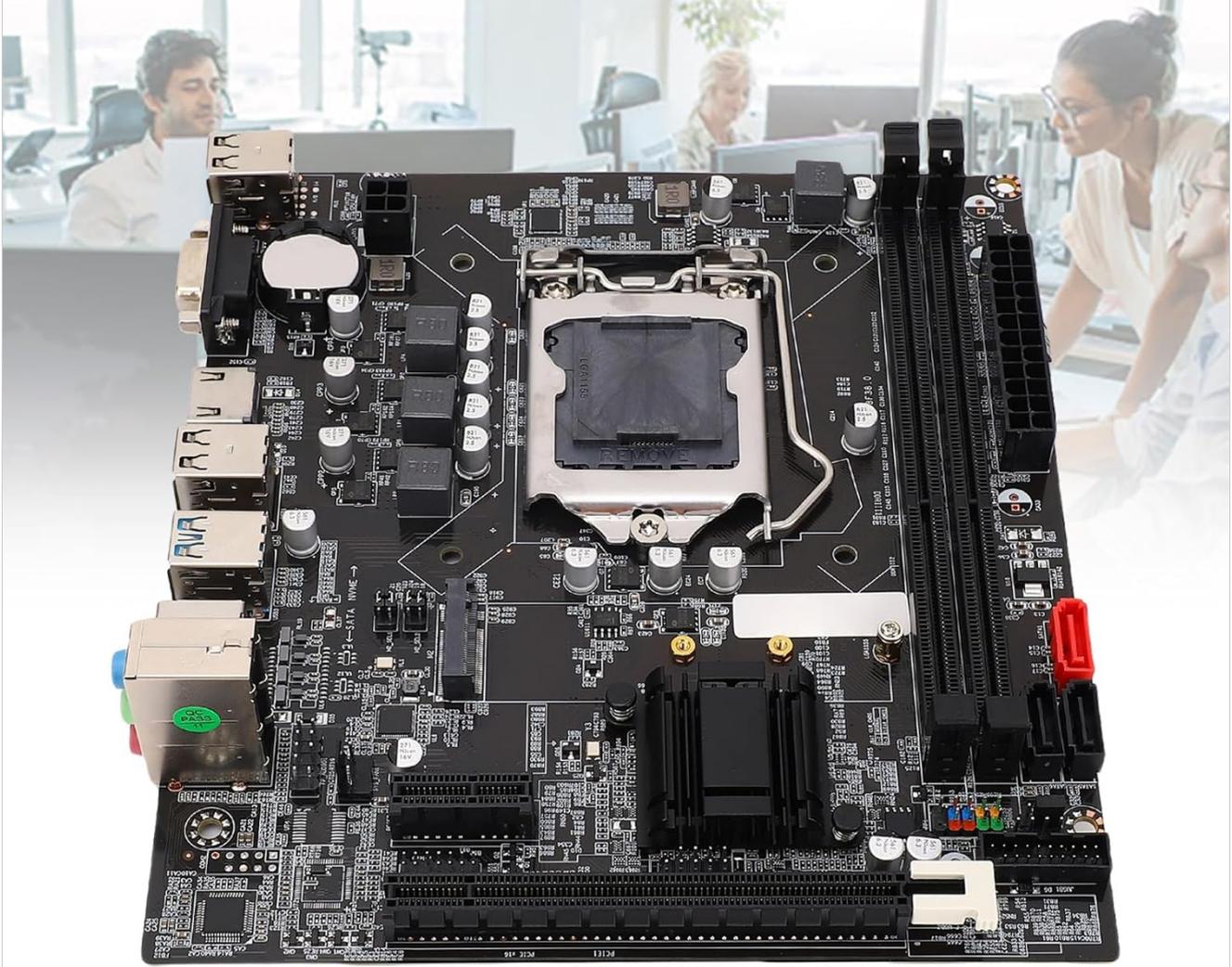


Figure 8: VGA and HD Multimedia Outputs. This motherboard enables 1080P HD video output without requiring a dedicated graphics card. Your CPU must support integrated graphics to utilize these two interfaces effectively for high-definition display.

4.3 Network Connectivity

The motherboard features an onboard Realtek 10/100 Mbps LAN port for wired network connections.

5. MAINTENANCE

5.1 General Cleaning

Regularly clean your computer's interior to prevent dust buildup, which can lead to overheating and performance issues. Use compressed air to remove dust from fans, heatsinks, and other components. Ensure the system is powered off and unplugged before cleaning.

5.2 BIOS Updates

Periodically check the manufacturer's website for BIOS updates. BIOS updates can improve system stability, add support for new hardware, or fix bugs. Follow the instructions provided by the manufacturer carefully when performing a BIOS update.

6. TROUBLESHOOTING

6.1 No Display Output

- Ensure all power cables (24-pin ATX, 4-pin ATX 12V) are securely connected.
- Verify that the monitor cable is connected to the correct video output port (VGA or HDMI) on the motherboard or dedicated graphics card.
- If using integrated graphics, confirm your CPU supports it.
- Reseat the memory modules and any installed expansion cards.

6.2 System Fails to Boot

- Check all power connections to the motherboard, CPU, and storage devices.
- Ensure the CPU is correctly seated in its socket.
- Verify that memory modules are properly installed.
- Disconnect all non-essential peripherals and try booting again.

6.3 Unstable System / Random Crashes

- Check CPU and GPU temperatures to ensure they are within safe operating limits.
- Ensure all drivers are up to date.
- Run memory diagnostic tools to check for faulty RAM.
- Verify that the power supply is sufficient for all components.

7. SPECIFICATIONS

Feature	Specification
Item Type	Computer Motherboard
Model	B75
Material	PCB
Battery	CR2032 (Built-in), Capacity: 240mAh
Socket	LGA1155 Socket
CPU Support	2nd or 3rd gen Intel Core i3/i5/i7, E3/V2 series, Celeron G series, and Pentium G series processors
Memory	2 x 240 pin DDR3 SDRAM slots, Max 16GB, Dual channel DDR3 1066/1333/1600 MHz
Storage	2 x ATA2.0 (3Gb/s) ports + 1 x ATA3.0 (6Gb/s) port, NVME M.2 interface (jumper support for double mode NVME and NGFF)
Integrated LAN	Onboard Realtek 10/100 Mbps LAN
Expansion Slots	1 x PCI Express x16 slot, 1 x PCI Express x1 slot

Feature	Specification
Integrated Sound	Onboard Realtek ALC 6 channel HD sound codec, Front sound interface, Front stereo microphone interface
I/O Interfaces	4 x USB 2.0, 2 x USB 3.0, 1 x VGA port, 1 x High Definition Multimedia Interface port, 1 x RJ45 port, 1 x 3-in-1 sound port (sound input/sound output/Microphone input)
Power Interfaces	1 x 24 pin ATX power port, 1 x 4 pin ATX 12V power port
Product Size	M-ATX architecture (Approx. 17 x 19cm / 6.69 x 7.48in)

8. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact Diyeeni customer support. For technical assistance, please visit the official Diyeeni website or contact their support channels.