

[Manuals.plus](#) /

› [Vikye](#) /

› Vikye B250 Micro ITX DDR3 Motherboard User Manual for 6th-9th Gen Processors

Vikye B250 Micro ITX

Vikye B250 Micro ITX DDR3 Motherboard User Manual

MODEL: B250 MICRO ITX

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your Vikye B250 Micro ITX DDR3 Motherboard. This motherboard is designed to support 6th, 7th, 8th, and 9th generation Intel processors, offering a compact solution for various computing needs, including gaming and office applications. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.

2. Safety Information

- Always disconnect the power supply from the wall outlet before installing or removing any components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.
- Handle the motherboard by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your PC case to prevent overheating.
- Keep the motherboard away from moisture and extreme temperatures.

3. Package Contents

Verify that all items are present in your package:

- Vikye B250 Micro ITX DDR3 Motherboard
- I/O Shield
- SATA Data Cable(s)
- User Manual (this document)

If any items are missing or damaged, please contact your retailer.

4. Motherboard Layout and Components

Familiarize yourself with the various components and connectors on your motherboard.

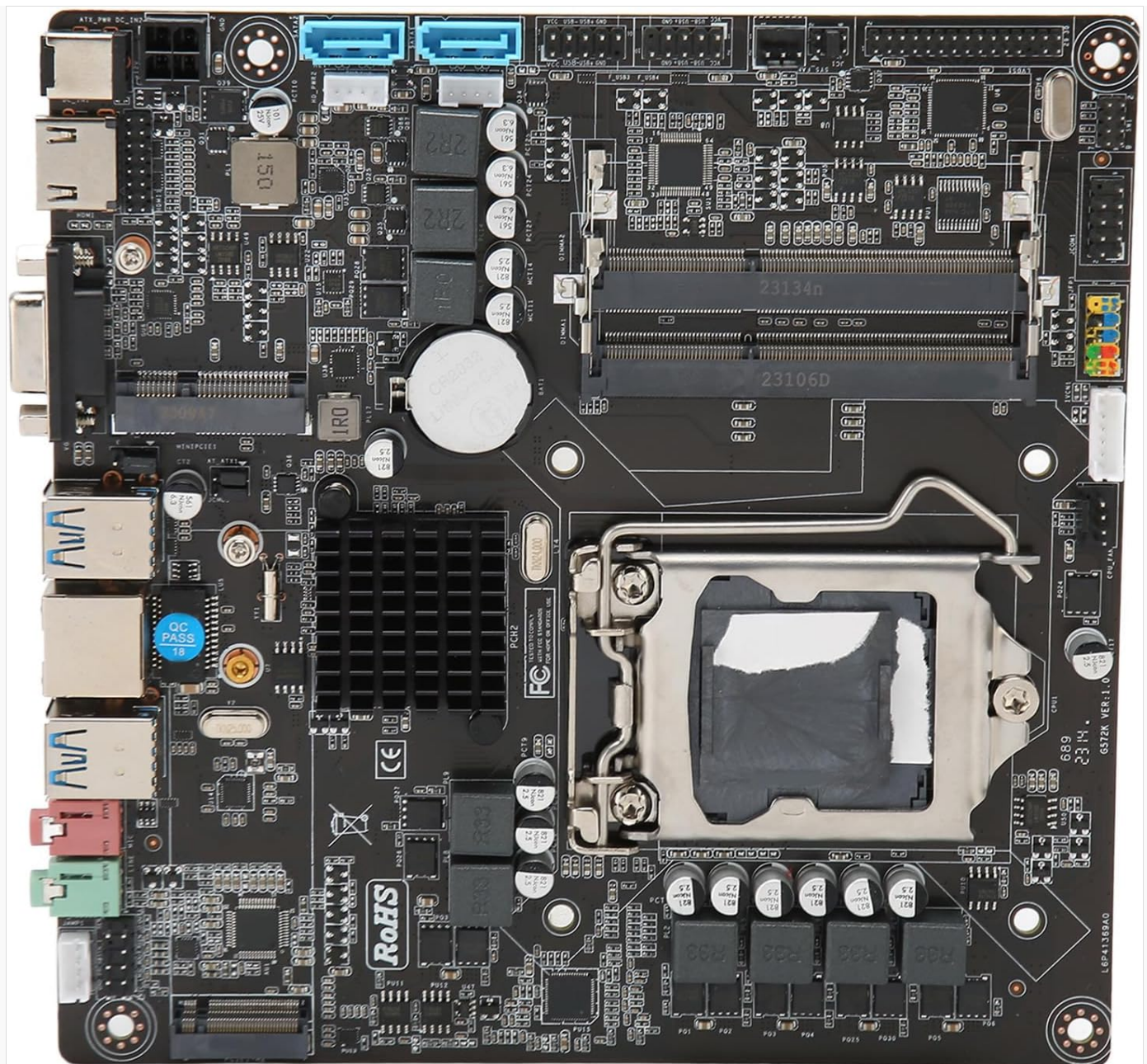


Figure 4.1: Overall view of the Vikye B250 Micro ITX DDR3 Motherboard. This image displays the CPU socket, RAM slots, PCIe slot, SATA ports, and various headers.

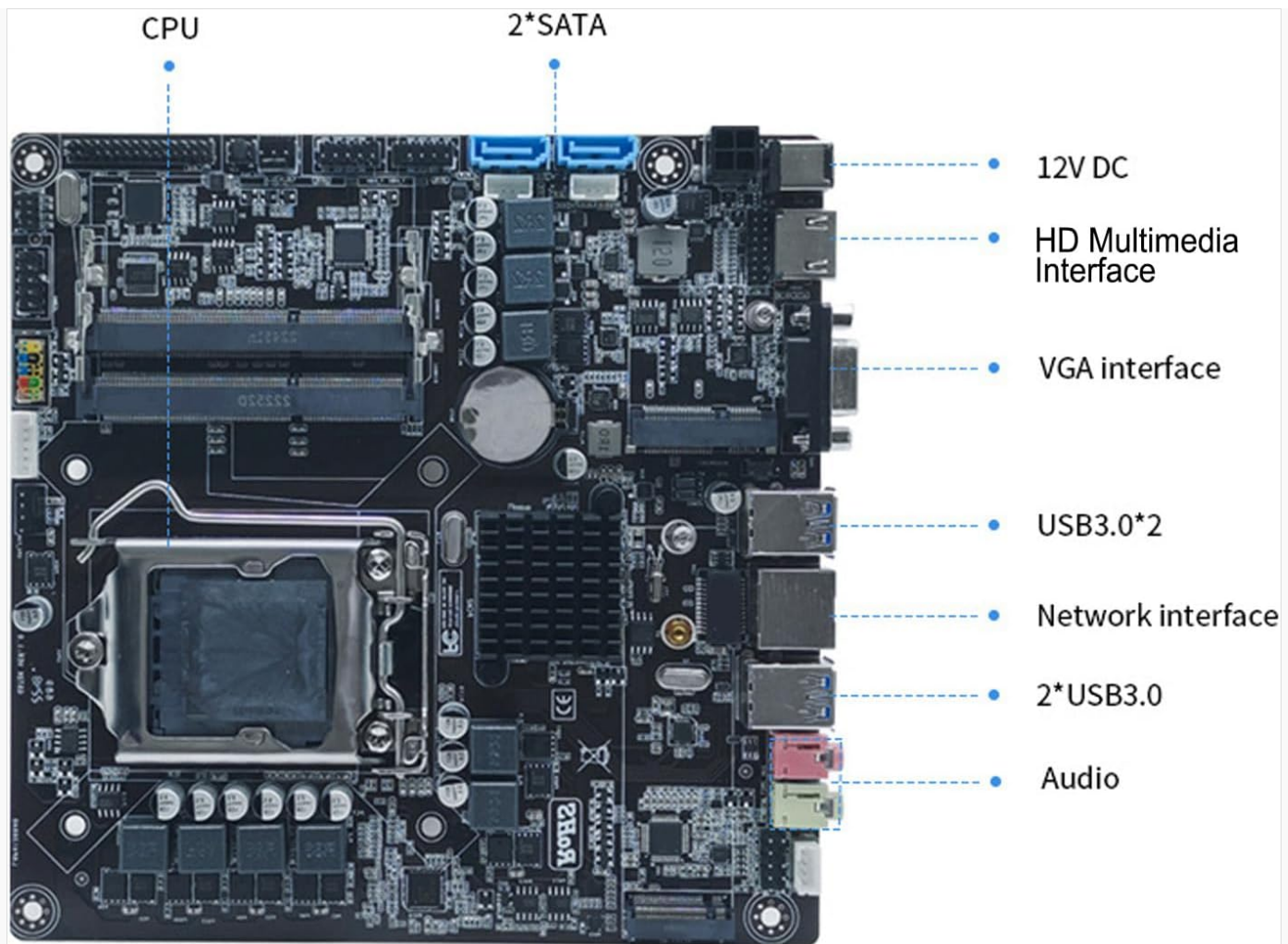


Figure 4.2: Detailed diagram showing the location of key components and rear I/O ports, including CPU socket, SATA ports, 12V DC input, HD Multimedia Interface, VGA interface, USB 3.0 ports, Network interface, and Audio ports.

Key Components:

- **CPU Socket (LGA1151):** Supports 6th, 7th, 8th, and 9th generation Intel Core i3/i5/i7/Pentium/Celeron processors.
- **DDR3 DIMM Slots:** Two slots supporting dual-channel DDR3 memory up to 1600MHz.
- **PCI-Express x16 Slot:** For graphics cards or other expansion cards.
- **SATA Ports:** Multiple ports for connecting storage devices (HDDs/SSDs).
- **Rear I/O Ports:** Includes USB ports, VGA, RJ45 (Ethernet), and audio jacks.
- **Power Connectors:** 24-pin ATX power connector and 4-pin 12V CPU power connector.

5. Setup and Installation

Follow these steps to install your motherboard and its components.

5.1. CPU Installation

1. Gently lift the CPU socket lever.
2. Align the CPU with the socket, ensuring the golden triangle on the CPU matches the triangle on the socket.
3. Carefully place the CPU into the socket without forcing it.
4. Lower the lever back into place to secure the CPU.
5. Apply thermal paste to the CPU and install the CPU cooler according to its instructions.

5.2. RAM Installation

1. Open the clips at both ends of the DDR3 DIMM slots.
2. Align the notch on the DDR3 memory module with the key in the DIMM slot.
3. Insert the memory module firmly into the slot until the clips snap into place.
4. For dual-channel operation, install memory modules in matching slots as indicated in the motherboard manual (typically alternating slots).

5.3. Storage Device (SATA) Installation

1. Connect one end of the SATA data cable to a SATA port on the motherboard.
2. Connect the other end of the SATA data cable to your HDD or SSD.
3. Connect a SATA power cable from your power supply unit (PSU) to the storage device.

5.4. Expansion Card (PCIe) Installation

1. Locate the PCI-Express x16 slot.
2. Remove the corresponding expansion slot cover from your PC case.
3. Align your graphics card or other PCIe expansion card with the slot and press down firmly until it is seated correctly.
4. Secure the card with a screw to the PC case.
5. If required, connect auxiliary power cables from your PSU to the graphics card.

5.5. Power Connections

1. Connect the 24-pin ATX main power connector from your PSU to the corresponding header on the motherboard.
2. Connect the 4-pin 12V CPU power connector from your PSU to the header near the CPU socket.

5.6. Front Panel Connections

Connect the cables from your PC case's front panel (USB, audio, power button, reset button, HDD LED, power LED) to the corresponding headers on the motherboard. Refer to the motherboard diagram (Figure 4.2) and the small labels on the motherboard for correct pin assignments.

6. Operating Instructions

6.1. First Boot

1. After assembling all components, connect your monitor, keyboard, and mouse.
2. Connect the power cord to the PSU and turn on the power switch on the PSU.
3. Press the power button on your PC case.
4. The system should power on, and you should see a display on your monitor.

6.2. BIOS/UEFI Setup

During startup, press the designated key (usually DEL or F2) to enter the BIOS/UEFI setup utility. Here you can configure system settings, boot order, and monitor hardware status.

6.3. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard's chipset, audio, LAN, and any other integrated components. These drivers are typically provided on a support CD or can be downloaded from the manufacturer's website.

7. Maintenance

- **Cleaning:** Regularly clean dust from inside your PC case and motherboard components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Periodically check the manufacturer's website for BIOS/UEFI updates. Updates can improve stability, add support for new hardware, or fix bugs. Follow the update instructions carefully to avoid system damage.
- **Cable Management:** Ensure cables are neatly routed to improve airflow and prevent interference.

8. Troubleshooting

This section addresses common issues you might encounter.

Problem	Possible Solution
No power / System does not turn on	Check PSU connections (24-pin ATX, 4-pin CPU), ensure PSU switch is on, verify front panel power button connection.
No display on monitor	Ensure monitor is connected and powered on. Check graphics card seating and power connections. Try integrated graphics (VGA) if available. Reseat RAM modules.
System reboots unexpectedly	Check CPU cooler installation and thermal paste. Ensure adequate case ventilation. Test RAM modules individually.
Operating system not detected	Verify SATA cable connections to storage devices. Check boot order in BIOS/UEFI. Ensure OS is properly installed.
USB devices not working	Ensure front panel USB headers are correctly connected. Check for updated USB drivers. Test devices in different ports.

9. Specifications

Detailed technical specifications for the Vikye B250 Micro ITX DDR3 Motherboard.

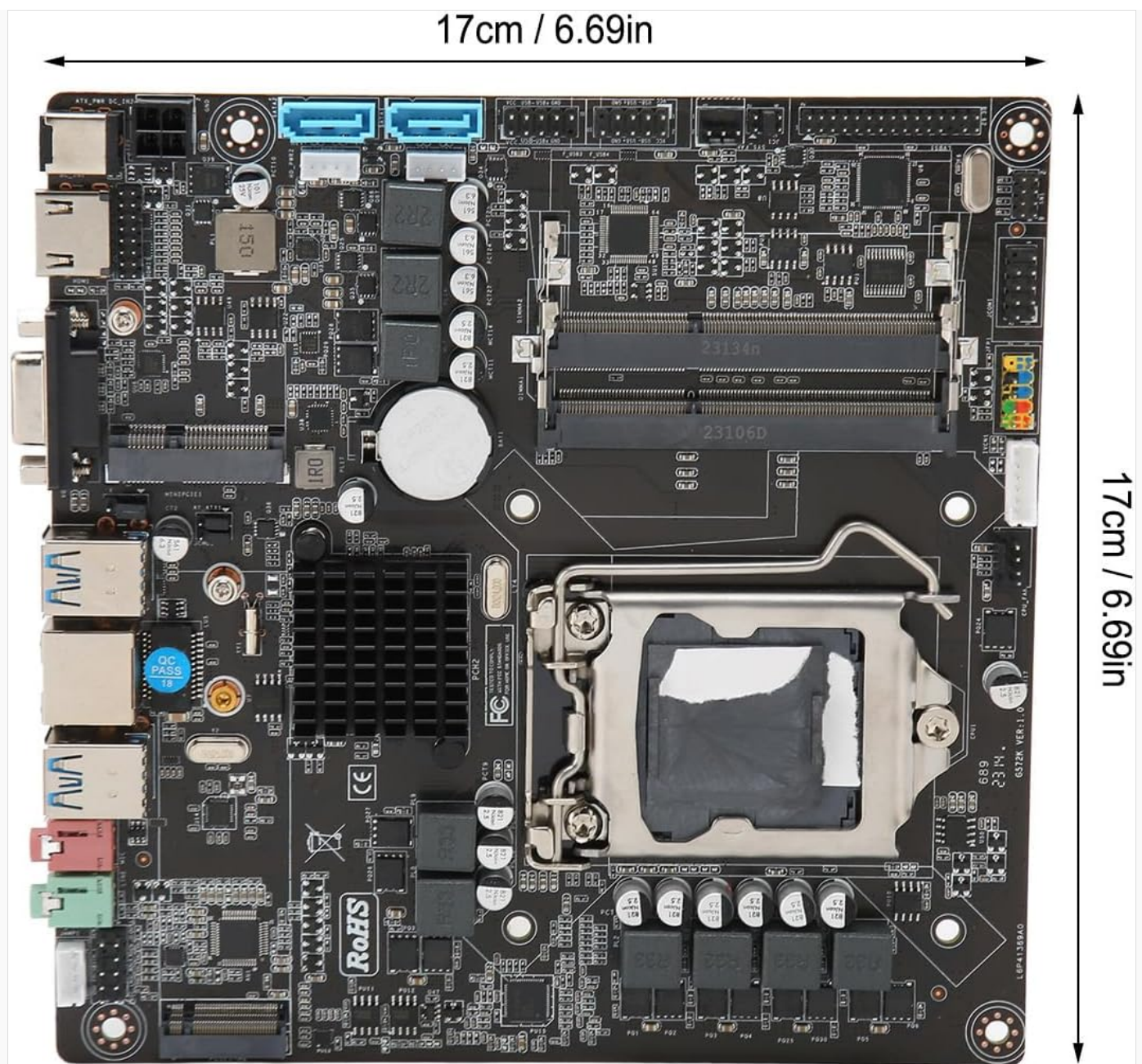


Figure 9.1: Motherboard dimensions (17cm x 17cm).

Feature	Specification
Brand	Vikye
Model	B250 Micro ITX
CPU Socket	LGA1151 (Supports 6th, 7th, 8th, 9th Gen Intel Processors)
Chipset	B250
Memory Type	DDR3
Memory Slots	2 x DDR3 DIMM (Dual Channel)
Max Memory Capacity	16 GB
Memory Clock Speed	1600 MHz
Graphics Interface	Integrated, 1 x PCI-Express x16

Feature	Specification
Storage Ports	4 x SATA Ports
USB Ports (Rear)	4 x USB 2.0, 2 x USB 3.0
Video Output	VGA, HD Multimedia Interface
LAN	RJ45 Network Interface
Audio	Integrated Audio
Form Factor	Micro ITX (17cm x 17cm)
Country of Origin	China

10. Warranty and Support

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact your retailer. For technical support, driver downloads, or further assistance, please visit the official Vikye support website or contact your point of purchase.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

Open the live page

<https://manuals.plus/asin/B0CDVHB8PL>

More documents and user manuals: <https://manuals.plus/>