Vikye X99 P4

Vikye X99 P4 Computer Mainboard User Manual

Model: X99 P4 | Brand: Vikye

Introduction

This manual provides comprehensive instructions for the installation, operation, and maintenance of your Vikye X99 P4 Computer Mainboard. Designed for robust performance, this motherboard supports LGA2011 and LGA 2011-3 E5 V3 V4 CPU processors and features DDR4 four-channel memory support. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.



Figure 1: Vikye X99 P4 Computer Mainboard and accessories (SATA cable, I/O shield).

Key Features

- **Strong Compatibility:** Supports LGA2011 and LGA 2011-3 E5 V3 V4 CPU processors, offering broad compatibility.
- **DDR4 Memory Support:** Features four DDR4 memory slots, supporting up to 128GB of 2400MHz memory in quad-

channel configuration.

- **Durable PCB Material:** Constructed from stable and durable PCB material, ensuring excellent heat dissipation and long-term reliability.
- **Multiple Connectivity Ports:** Equipped with USB 3.0 ports, HD multimedia interfaces, and dedicated USB ports for keyboard and mouse.
- **SATA Ports:** Includes compact and user-friendly SATA 3.0 and SATA 2.0 ports for easy storage device connection.
- **PCIe Expansion:** Features one PCIEx16 slot for graphics cards and one PCIEx1 slot for additional expansion, along with an M.2 VME slot.
- **Integrated Gigabit LAN:** Provides a Gigabit LAN card for high-speed network connectivity.

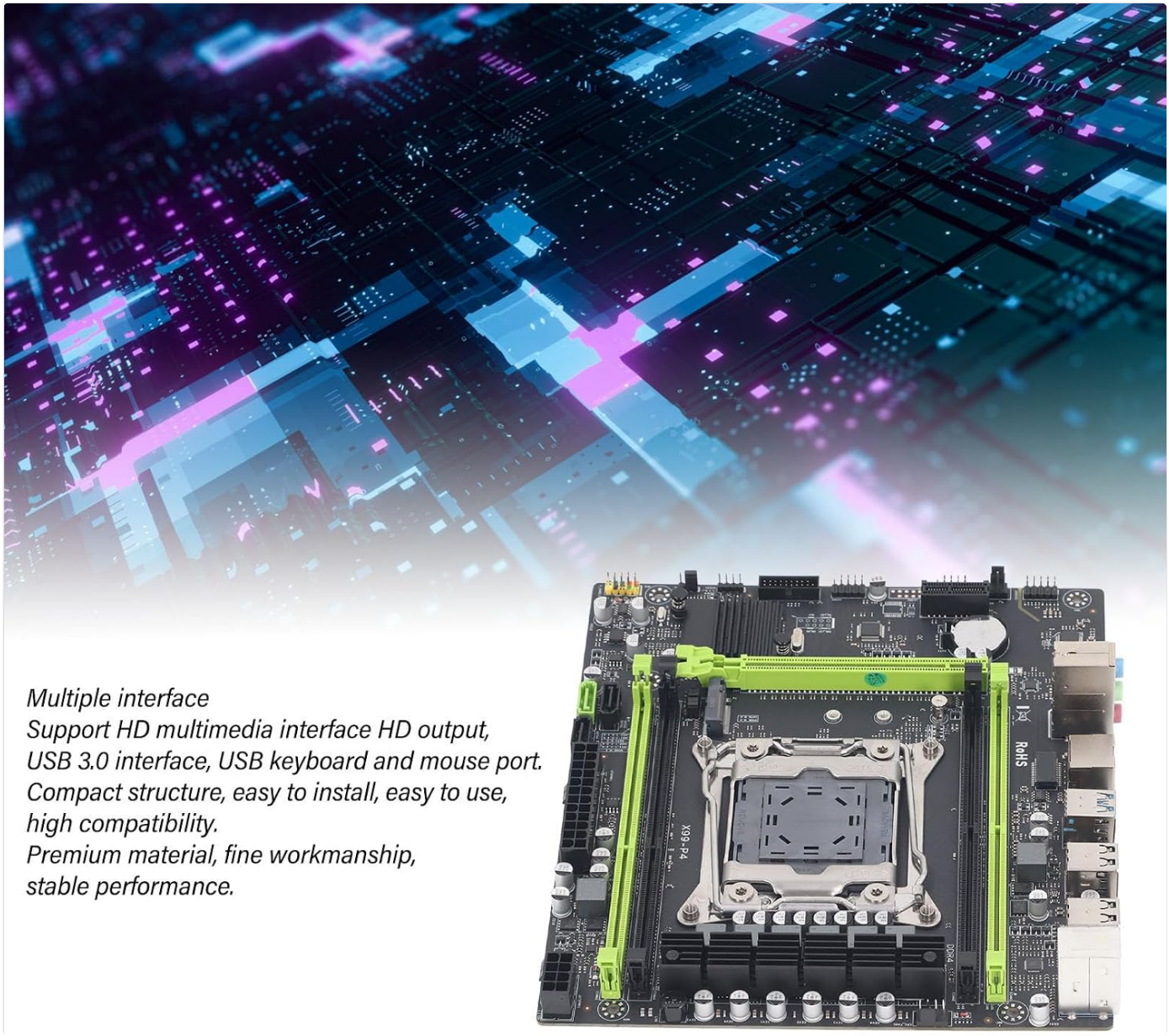


Figure 2: Overview of the motherboard's multiple interfaces and components.

Specifications

Feature	Detail
Item Type	Computer Motherboard

Feature	Detail
Material	PCB, Metal
Built-in Battery	1 x 240mAh CR2032 Battery
CPU Support	LGA2011, LGA 2011-3 E5 V3 V4 CPU processors
Chipset	H81 Chipset Series (Intel H81)
Memory Slot	4 x DDR4
Peak Memory Capacity	128GB
Memory Clock Speed	2400 MHz
USB Ports	4 x USB2.0, 2 x USB3.0
SATA Interface	1 x SATA3.0, 2 x SATA2.0
Network Card	Gigabit LAN Card
Graphics Card Slot	1 x PCIEx16
Expansion Interface	1 x PCIEx1, 1 x M.2 VME M.2
Main Power Connector	24-Pin

Package Contents

Verify that all items listed below are present and in good condition before proceeding with installation. If any items are missing or damaged, please contact customer support.

- 1 x Vikye X99 P4 Motherboard
- 1 x Metal I/O Shield
- 1 x SATA Connection Cable

Setup and Installation

Before beginning installation, ensure your workspace is clean, well-lit, and static-free. It is recommended to wear an anti-static wrist strap to prevent damage to components.

1. Prepare Your System Case

1. Open your computer case and remove any existing components if upgrading.
2. Install the provided metal I/O shield into the rear opening of your computer case.
3. Carefully align the motherboard with the standoffs inside the case. Ensure all screw holes on the motherboard align with the standoffs.
4. Secure the motherboard to the case using appropriate screws. Do not overtighten.

2. CPU Installation

The X99 P4 motherboard uses an LGA2011 socket. Handle the CPU by its edges only.

1. Locate the CPU socket on the motherboard.
2. Gently push down the load lever and pull it away from the socket to open the CPU retention frame.
3. Carefully place the CPU into the socket, ensuring the golden triangle/arrow on the CPU aligns with the corresponding mark on the socket. Do not force the CPU into place.
4. Close the retention frame and push the load lever back into its locked position.
5. Apply a thin, even layer of thermal paste to the top of the CPU.
6. Install your CPU cooler according to its manufacturer's instructions.

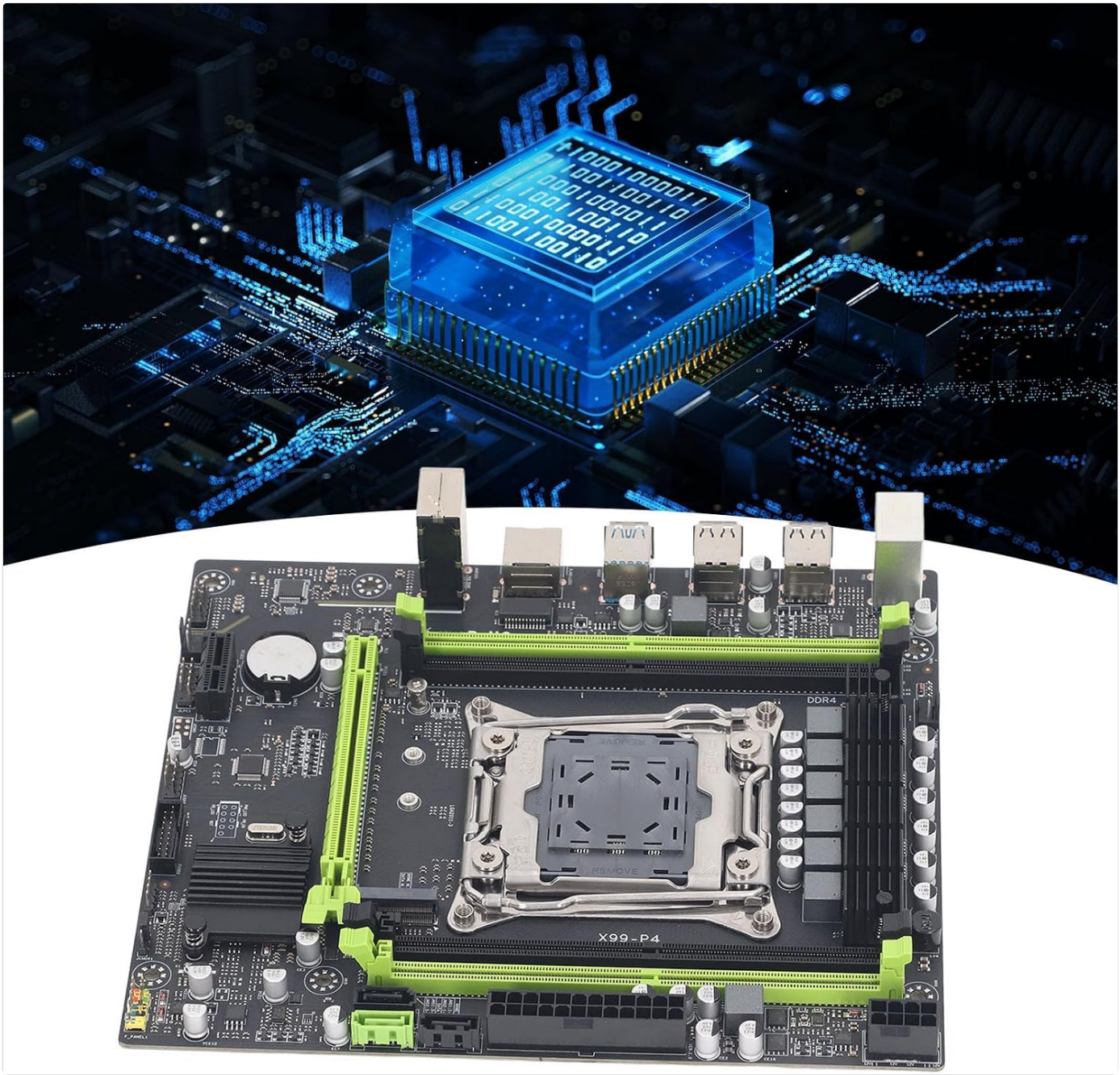


Figure 3: The LGA2011 CPU socket area.

3. RAM (Memory) Installation

The motherboard supports DDR4 memory in a quad-channel configuration. For optimal performance, install memory modules in matching pairs or quads as recommended by your CPU and memory kit.

1. Locate the four DDR4 memory slots.
2. Open the clips at both ends of the memory slot.

3. Align the notch on the 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.

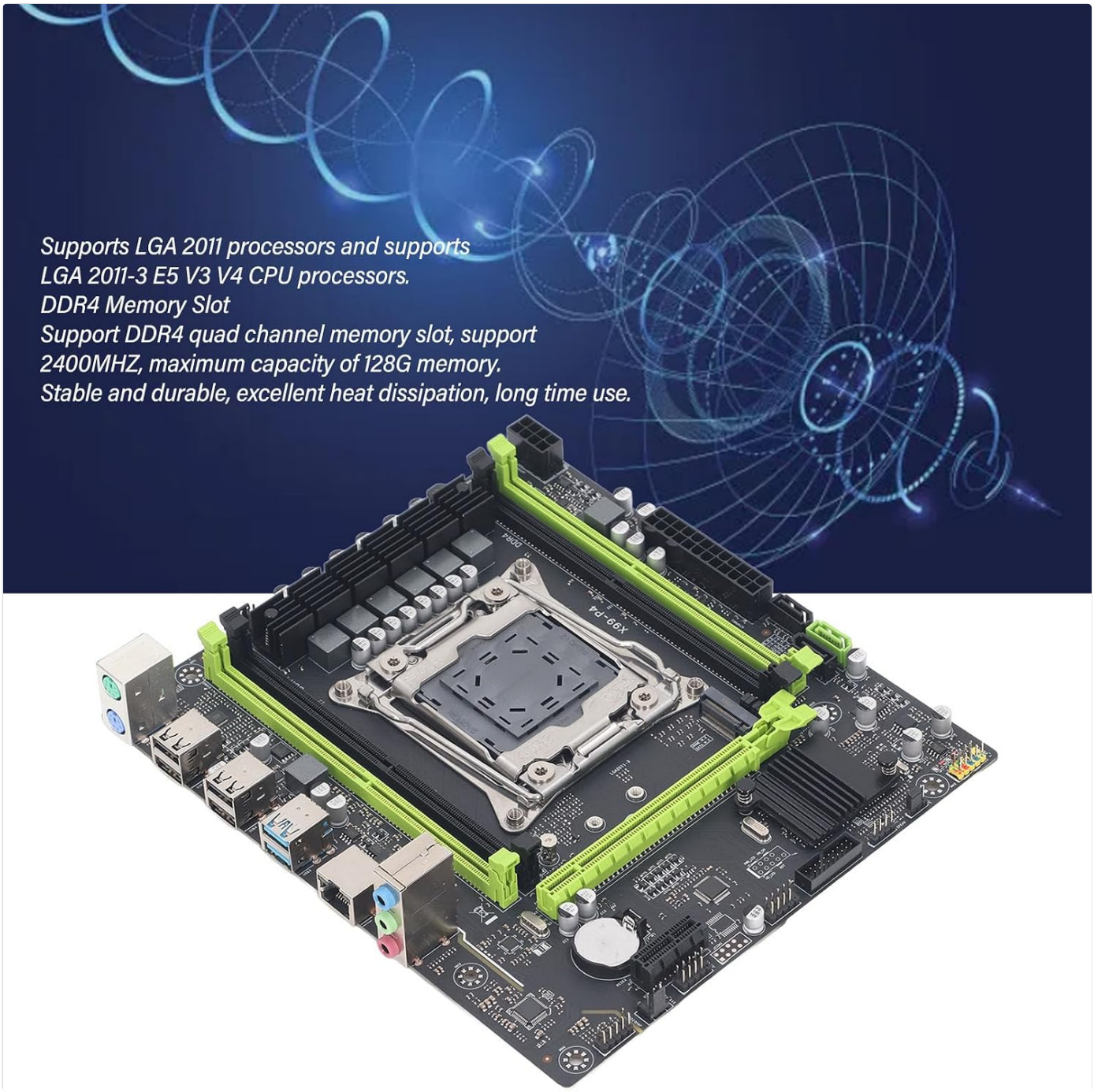


Figure 4: The four DDR4 memory slots.

4. Storage Device Installation (SATA & M.2)

1. **SATA Drives:** Connect your SATA hard drives or SSDs to the SATA 3.0 (1x) or SATA 2.0 (2x) ports using the provided SATA cable. Connect the other end of the SATA cable to your storage device.
2. **M.2 NVMe SSD:** If installing an M.2 NVMe SSD, locate the M.2 slot. Insert the M.2 SSD at an angle and then gently push it down, securing it with the small screw provided with your motherboard or SSD.

5. Power Connections

1. Connect the 24-pin ATX power connector from your power supply unit (PSU) to the main 24-pin power socket on the motherboard.
2. Connect the 8-pin (or 4+4 pin) CPU power connector from your PSU to the CPU power socket near the CPU.

3. Connect power cables to your graphics card (if applicable) and storage devices.

6. Front Panel and Peripheral Connections

1. Connect the front panel headers (Power SW, Reset SW, HDD LED, Power LED) from your case to the corresponding pins on the motherboard. Refer to the motherboard's silkscreen labels for correct orientation.
2. Connect front panel USB 2.0 and USB 3.0 headers.
3. Connect front panel audio headers.
4. Connect any additional peripherals such as graphics cards (to the PCIEx16 slot), expansion cards (to PCIEx1 slot), and case fans.

Operating Instructions

1. First Boot

1. After all components are installed and connected, close your computer case.
2. Connect your monitor, keyboard, and mouse to the appropriate ports on the rear I/O panel.
3. Connect the power cord to your PSU and turn on the power switch on the PSU.
4. Press the power button on your computer case. The system should power on, and you should see a display on your monitor.

2. BIOS/UEFI Setup

1. During the initial boot-up, repeatedly press the `DEL` or `F2` key (or as indicated on screen) to enter the BIOS/UEFI setup utility.
2. In the BIOS, you can configure boot order, system time, enable/disable integrated peripherals, and adjust performance settings.
3. Save changes and exit the BIOS to continue booting.

3. Operating System and Driver Installation

1. Insert your operating system installation media (USB drive or DVD).
2. Follow the on-screen prompts to install your operating system.
3. After the OS is installed, install the necessary drivers for the motherboard chipset, network, audio, and any other integrated components. These drivers are typically available on the manufacturer's website.

Maintenance

- **Cleaning:** Periodically clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Check the manufacturer's website for BIOS/UEFI updates. Updates can improve compatibility, stability, and performance. Follow the update instructions carefully to avoid damaging the motherboard.
- **Component Checks:** Ensure all cables are securely connected and components are properly seated.

Troubleshooting

Problem	Possible Cause	Solution

Problem	Possible Cause	Solution
System does not power on.	Loose power cables, faulty PSU, incorrect front panel connections.	Check 24-pin and 8-pin CPU power connections. Verify front panel power switch connection. Test PSU if possible.
No display on monitor.	Loose RAM, faulty graphics card, incorrect monitor connection.	Reseat RAM modules. Ensure graphics card is fully seated and powered. Check monitor cable connection. Try integrated graphics if available.
Operating system not detected.	Incorrect boot order, loose SATA/M.2 cable, unformatted drive.	Check BIOS boot order. Reseat SATA/M.2 cables. Ensure drive is properly formatted and OS installed.
System crashes or freezes.	Overheating, unstable RAM, outdated drivers.	Ensure CPU cooler is properly installed. Test RAM modules. Update all drivers. Check for BIOS updates.

Warranty and Support

Your Vikye X99 P4 Computer Mainboard is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Vikye website.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact Vikye customer service. Have your product model number (X99 P4) and purchase information ready when contacting support.

- **Manufacturer:** Vikye
- **Model:** X99 P4
- **Date First Available:** March 11, 2024
- **Protection Plans:** Additional protection plans may be available for purchase through your retailer.
- **Return Policy:** Standard return policies apply as per your retailer (e.g., 30-day return policy for refund/replacement on Amazon).

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Name

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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