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Diyeeni H511

Diyeeni H511 Gaming Motherboard User Manual

Model: H511 | Brand: Diyeeni

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Diyeeni H511 Gaming Motherboard. Please read this manual thoroughly before proceeding with installation to ensure correct setup and optimal performance.

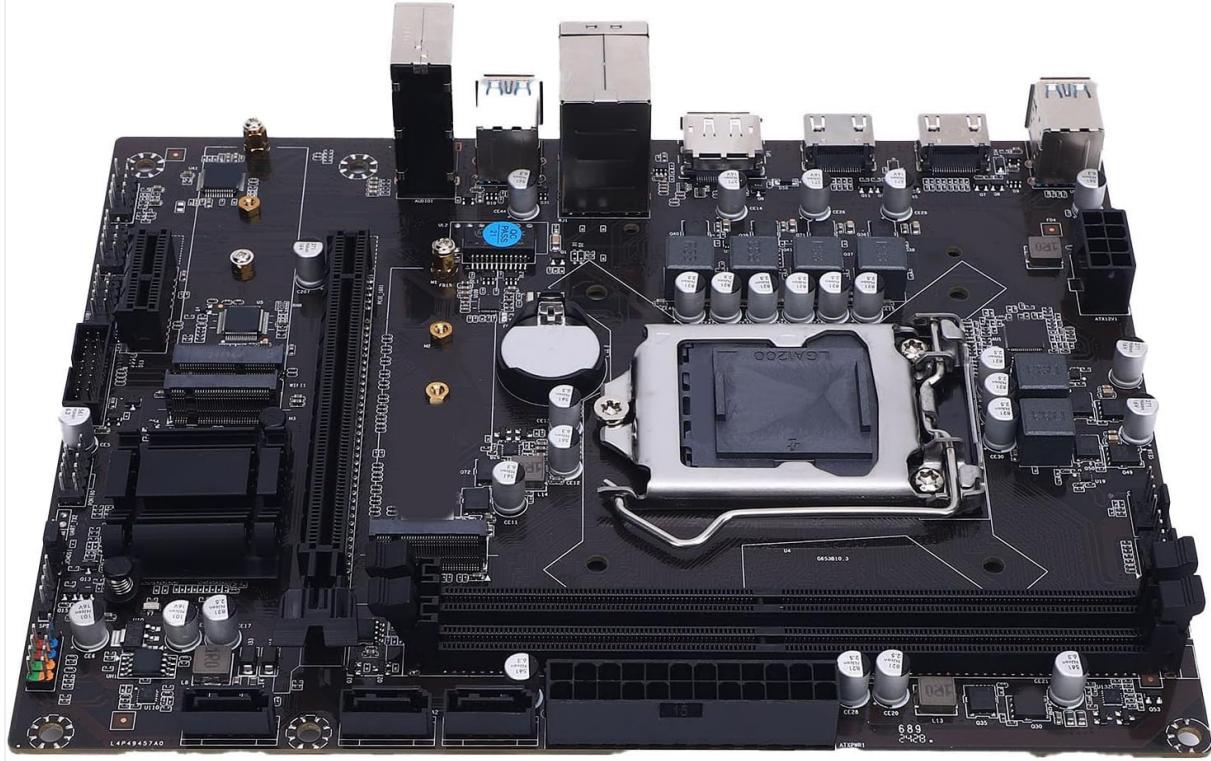


Image: Top view of the Diyeeni H511 Gaming Motherboard, showcasing the CPU socket, RAM slots, and various connectors.

SAFETY INFORMATION

- Always disconnect the power supply from your computer before installing or removing any components.

- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.
- Handle components by their edges to avoid touching sensitive circuits.
- Ensure proper ventilation within your computer case to prevent overheating.
- Keep the motherboard away from moisture and extreme temperatures.

PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Diyeeni H511 Gaming Motherboard
- (Additional accessories such as SATA cables, I/O shield, and manual may be included depending on the specific retail package.)

SPECIFICATIONS

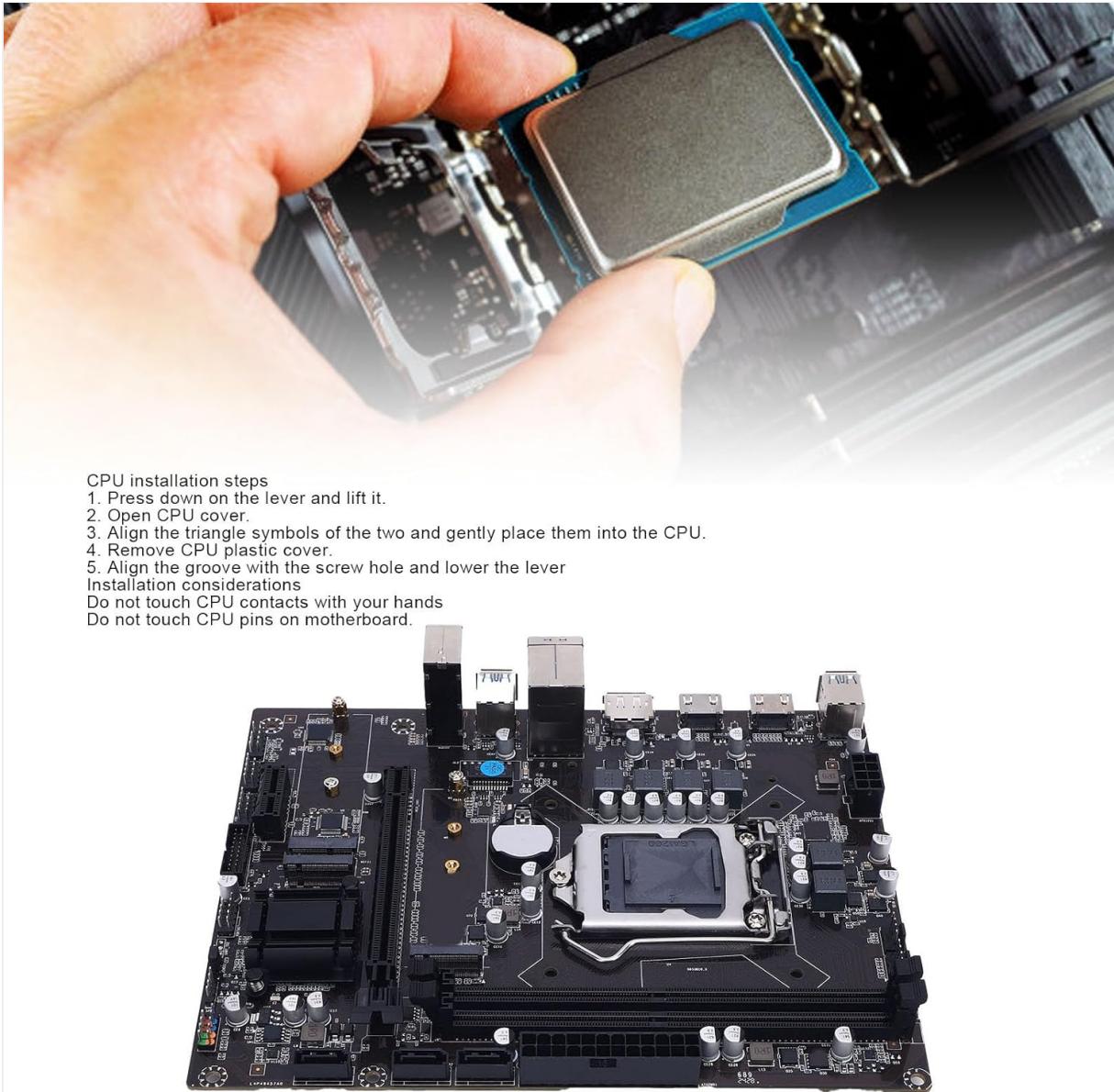
Item Type	Gaming Motherboard
Material	PCB
Battery	Built-in CR2032 240mAh
Chipset	H511 Express Chipset
Socket	LGA 1200
CPU Support	10th and 11th Gen Core i3, i5, i7, i9, and Celeron Series Processors
Memory	2 x 288-pin DDR4 SDRAM slots, Dual Channel, Max 64GB, Supports 3200/2933/2800/2666/2400/2133MHz
Expansion Slots	1 x PCI Express x16, 1 x PCI Express x1, 1 x WIFI interface, 2 x NVME-M.2 interface
Integrated Sound Card	Realtek ALC 6-channel HD Sound Codec
Storage	3 x Serial ATA 3.0 (6Gb/s) ports
I/O Ports	2 x USB 2.0, 4 x USB 3.0, 1 x DisplayPort, 2 x HD Multimedia Interface, 1 x RJ45, 1 x 3-in-1 Sound Port
On Board Connectors	1 x 24-pin ATX Power, 1 x 8-pin ATX 12V Power, 2 x USB 2.0 (supports 4 x USB 2.0), 1 x USB 3.0 (supports 2 x USB 3.0), 1 x F-Sound, 1 x PROT80, 1 x UART, 1 x F-SPK1, 1 x JCMOS1, 2 x Fan, 1 x F-PANEL1
Product Size	Approx. 16.8 x 21.5 cm (6.61 x 8.46 in)
Model Number	Diyeenieuy6i4doza
Item Weight	1.09 pounds

SETUP GUIDE

Follow these steps for proper installation of your motherboard and components.

1. CPU Installation

Carefully install the CPU into the LGA 1200 socket.



CPU installation steps

1. Press down on the lever and lift it.
2. Open CPU cover.
3. Align the triangle symbols of the two and gently place them into the CPU.
4. Remove CPU plastic cover.
5. Align the groove with the screw hole and lower the lever

Installation considerations

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

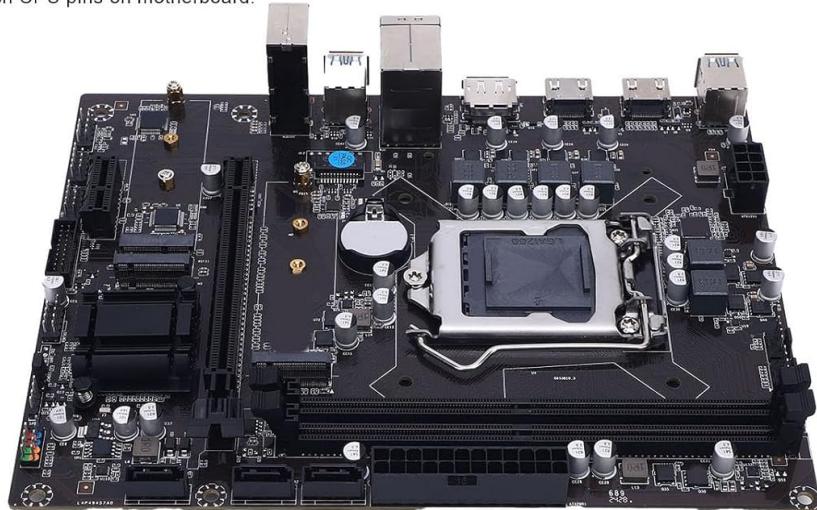


Image: A hand carefully placing a CPU into the motherboard's LGA 1200 socket, with installation steps visible.

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.

Important Considerations:

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

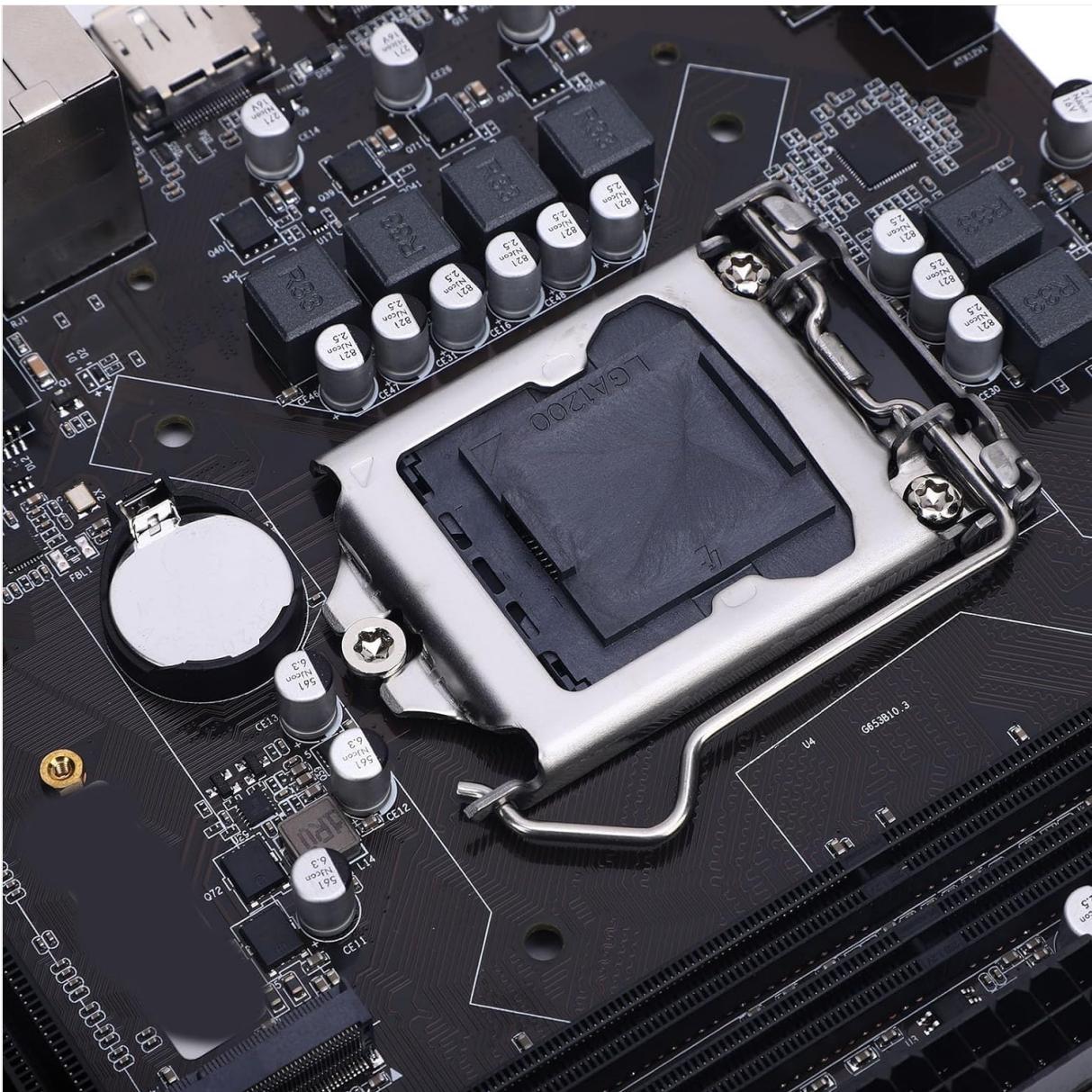


Image: A close-up view of the LGA 1200 CPU socket on the motherboard, showing the retention mechanism.

2. Memory (RAM) Installation

The motherboard features two 288-pin DDR4 SDRAM slots. Install DDR4 memory modules into these slots.

1. Open the clips at both ends of the DIMM slot.
2. Align the notch on the DDR4 memory module with the key in the DIMM slot.
3. Press down firmly on both ends of the memory module until the clips snap into place.

3. Storage Device Installation

The motherboard supports M.2 NVMe SSDs and SATA 3.0 devices.

M.2 NVMe SSD Installation:

- Locate the two NVME-M.2 interfaces on the motherboard.
- Insert the M.2 SSD into the slot at a 30-degree angle.
- Gently push the SSD down and secure it with the provided screw.

SATA 3.0 Device Installation:

- Connect one end of a SATA data cable to one of the three Serial ATA 3.0 ports on the motherboard.

- Connect the other end of the SATA data cable to your SATA hard drive or SSD.
- Connect a SATA power cable from your power supply to the SATA device.

4. Expansion Card Installation

Install graphics cards or other expansion cards into the PCI Express slots.

- Locate the PCI Express x16 slot (for graphics cards) and the PCI Express x1 slot.
- Align the expansion card with the chosen slot and press down firmly until it is seated correctly.
- Secure the card with a screw to the computer case.

5. Power Connections

Connect the main power cables from your power supply to the motherboard.

- Connect the 24-pin ATX power connector to the main power socket on the motherboard.
- Connect the 8-pin ATX 12V power connector to the CPU power socket.

6. Front Panel and Internal Connections

Connect the various cables from your computer case to the motherboard's internal headers.

- **USB Headers:** Connect front panel USB 2.0 and USB 3.0 cables to the corresponding headers (2 x USB 2.0 connectors, 1 x USB 3.0 connector).
- **Audio Header:** Connect the front panel audio cable to the F-Sound connector.
- **Front Panel Headers:** Connect power switch, reset switch, power LED, and HDD LED cables to the F-PANEL1 connector. Refer to your case manual for specific pin assignments.
- **Fan Headers:** Connect case fans to the two available fan connectors.

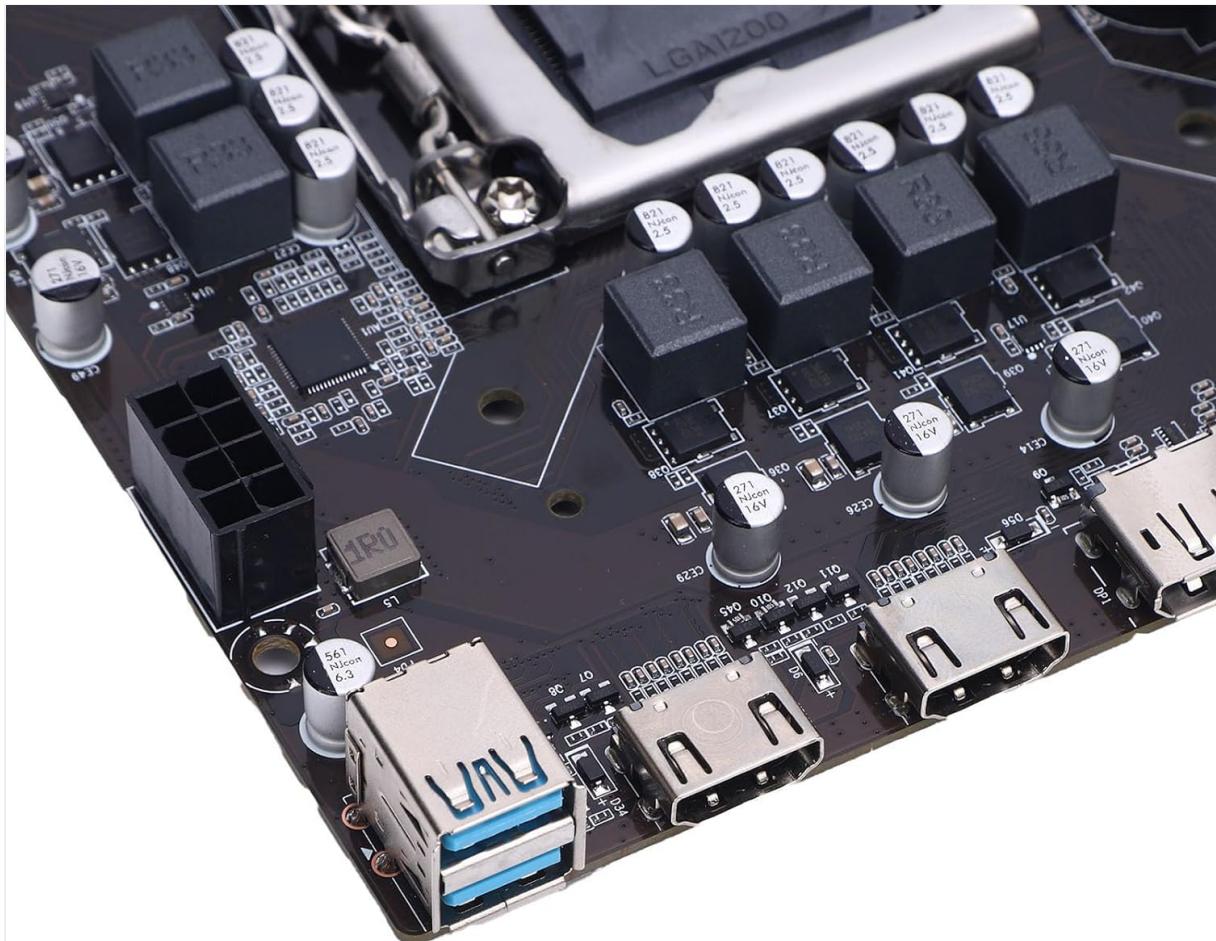


Image: A close-up view of the internal USB 3.0 header and other power/data connectors on the motherboard.

7. I/O Panel Connections

Connect external peripherals to the rear I/O panel ports.

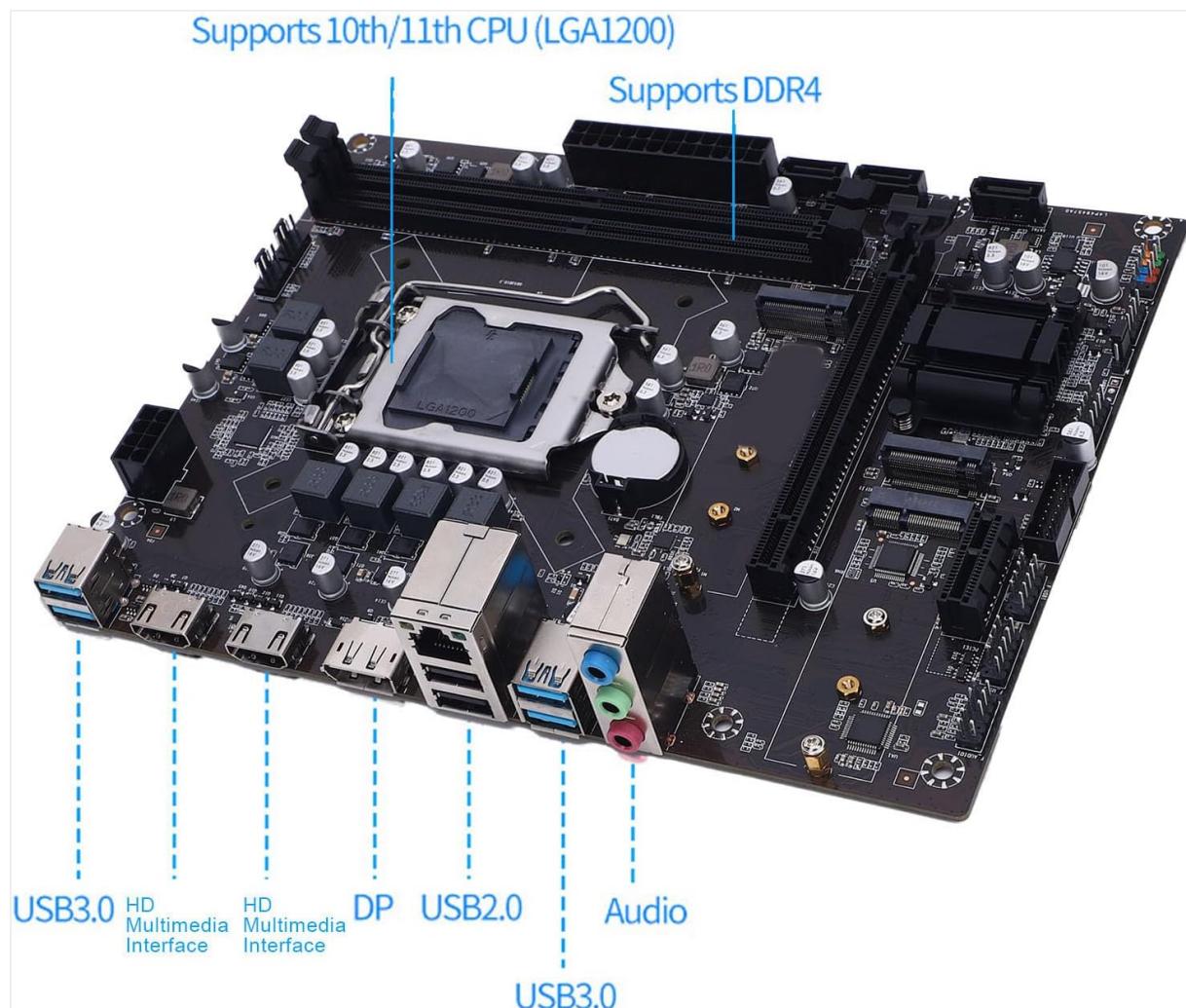


Image: Diagram illustrating the various I/O ports on the motherboard, including USB 3.0, HD Multimedia Interface, DisplayPort, USB 2.0, and Audio jacks.

- **USB Ports:** Connect USB devices (keyboard, mouse, external drives) to the 2 x USB 2.0 and 4 x USB 3.0 ports.
- **Video Outputs:** Connect your monitor(s) to the DisplayPort or one of the two HD Multimedia Interface ports. *Note: Integrated graphics support is required from your CPU to utilize these outputs.*
- **LAN Port:** Connect an Ethernet cable to the RJ45 port for network access.
- **Audio Jacks:** Connect speakers, headphones, or a microphone to the 3-in-1 sound port (Sound In, Sound Out, Mic In).

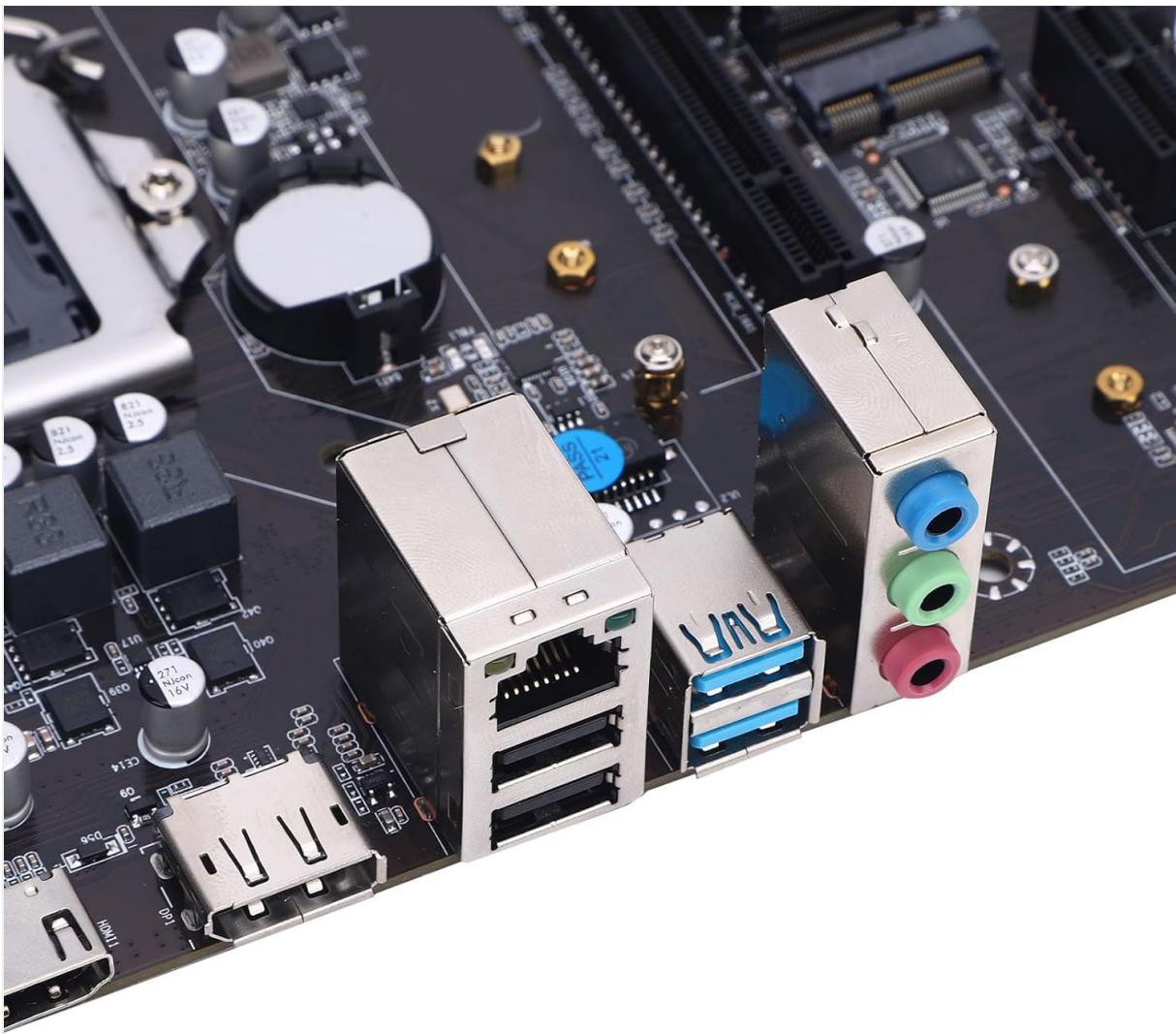


Image: A close-up view of the rear I/O panel, showing the Ethernet port, USB ports, and audio jacks.

OPERATING INSTRUCTIONS

First Boot and BIOS Setup

1. After assembling all components, connect your monitor, keyboard, and mouse.
2. Connect the power cord to your power supply and turn on the power switch.
3. Press the power button on your computer case.
4. During startup, repeatedly press the **DEL** key (or F2, F10, F12 depending on BIOS version) to enter the BIOS/UEFI setup utility.
5. In the BIOS, you can configure boot order, system time, enable/disable integrated peripherals, and adjust performance settings. Save changes and exit to boot into your operating system installer.

Driver Installation

After installing your operating system, install the necessary drivers for optimal performance.

- **Chipset Drivers:** Install the chipset drivers first, usually found on the manufacturer's website or an included driver CD/USB.
- **Graphics Drivers:** Install drivers for your dedicated graphics card (if applicable) or the integrated graphics from your CPU.
- **Audio Drivers:** Install Realtek ALC audio drivers.
- **LAN Drivers:** Install network drivers for the RJ45 port.

- **M.2/SATA Drivers:** Ensure storage drivers are up to date for optimal SSD/HDD performance.

Always download the latest drivers from the official Diyeeni website or the component manufacturers' websites (e.g., Intel for chipset, Realtek for audio).

MAINTENANCE

- **Cleaning:** Regularly clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS/UEFI Updates:** Periodically check the Diyeeni support website for BIOS/UEFI updates. Updates can improve stability, compatibility, and add new features. Follow the update instructions carefully to avoid damaging the motherboard.
- **Driver Updates:** Keep all system drivers updated to ensure optimal performance and security.
- **CMOS Battery:** The motherboard uses a CR2032 battery for CMOS settings. If you experience issues with system time or BIOS settings resetting, the battery may need replacement.

TROUBLESHOOTING

- **No Power:**
 - Check all power connections (24-pin ATX, 8-pin ATX 12V) are securely seated.
 - Ensure the power supply switch is in the 'ON' position.
 - Test the power supply with another system or a power supply tester.
- **No Display:**
 - Ensure your monitor is connected to the correct video output (motherboard or dedicated graphics card).
 - Verify that your CPU has integrated graphics if using motherboard video outputs.
 - Reseat the graphics card and RAM modules.
 - Try booting with only one RAM stick.
- **System Instability/Crashes:**
 - Check CPU and GPU temperatures.
 - Ensure all drivers are correctly installed and up to date.
 - Run memory diagnostic tools to check RAM integrity.
 - Verify power supply wattage is sufficient for all components.
- **Operating System Not Booting:**
 - Check boot order in BIOS/UEFI to ensure the correct drive is selected.
 - Verify SATA/M.2 connections for your storage drive.
 - If recently installed, ensure the OS installation media is properly configured.

WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or visit the official Diyeeni website. Warranty terms and conditions may vary by region and retailer.

For technical support, driver downloads, and further assistance, please visit the official Diyeeni support page or contact their customer service. Keep your product model number (H511) and serial number (if applicable) ready when seeking support.

Related Documents - H511

	<p><u>Sunwaytek H510/H511 Wireless Controller User Manual & Connection Guide</u></p> <p>Comprehensive user manual for the Sunwaytek H510/H511 wireless controller. Learn how to pair, link, and connect to Nintendo Switch, PC, Android, iOS, macOS, Linux, and Fire TV.</p>
	<p><u>Household Rowing Machine H511 User Manual</u></p> <p>User manual for the Household Rowing Machine H511, providing important safety information, assembly instructions, exercise guidance, resistance adjustment, and monitor specifications.</p>
	<p><u>Sunwaytek H510/H511 Wireless Controller User Manual</u></p> <p>Comprehensive user manual for the Sunwaytek H510/H511 wireless controller, covering setup, pairing, charging, and connectivity for Nintendo Switch, PC, Android, iOS, and Mac.</p>
	<p><u>Sunwaytek H510/H511 Wireless Controller User Manual</u></p> <p>Comprehensive user manual for the Sunwaytek H510/H511 wireless controller, covering setup, pairing, charging, and connectivity to various platforms like Nintendo Switch, PC, Android, iOS/iPad OS, Mac, Linux, and Fire TV.</p>
	<p><u>Sunwaytek H510/H511 Wireless Controller User Manual & Guide</u></p> <p>Comprehensive user manual for the Sunwaytek H510/H511 wireless controller, covering quick start, platform compatibility, keymapping, charging, and connection guides for various devices like Nintendo Switch, PC, Android, iOS, and Mac.</p>
	<p><u>Sunwaytek H510/H511 Wireless Controller User Manual</u></p> <p>User manual for Sunwaytek H510/H511 wireless controllers. Learn how to pair, connect, and use your controller with Nintendo Switch, PC, Android, iOS, Mac, and Fire TV. Includes quick start guide and troubleshooting.</p>