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› Zyyini H310M F R2.0 Motherboard Instruction Manual

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Zyyini H310M F R2.0 Motherboard Instruction Manual

Model: H310M F R2.0

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Zyyini H310M F R2.0 Computer Motherboard. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.

KEY FEATURES

- **Versatile CPU Compatibility and Connectivity:** The H310M F R2.0 motherboard supports for LGA 1151 9th 8th gen core, for Pentium Gold, and for Celeron series 14nm CPUs. It features an onboard for RTL8111H gigabit LAN card for smoother network connectivity, along with an integrated for ALC887 8 channel sound chip.



Image: Overview of the Zyyini H310M F R2.0 motherboard highlighting CPU compatibility and various connectivity options.

- **Efficient Memory and Storage Options:** Designed with 2 DDR4 memory slots supporting 2 channel DDR4 2933, 2666, 2400, 2133MHz RAM, the desktop computer motherboard has a maximum capacity of 32GB. It also includes six Serial ATA III ports and .2 slot for extensive storage compatibility.



Image: Close-up of the motherboard's two DDR4 DIMM slots and multiple SATA III ports for memory and storage expansion.

- **High Definition Visuals:** Equipped with DVI and VGA outputs, the DDR4 motherboard allows connections to TVs and monitors for an enhanced HD experience. This makes the H310M F R2.0 ideal for home, design, and gaming applications.



Image: The rear I/O panel of the motherboard, highlighting the DVI and VGA video output ports.

- **Expandable PCI E Infrastructure:** Featuring PCI E 3.0 standard, the motherboard offers 1 PCI E x16 slot and 2 PCI E x1 slots. These expansions facilitate the addition of dedicated graphics cards, sound cards, network cards, and other PCI E devices.



Image: The motherboard's PCI Express slots, including one PCIe x16 and two PCIe x1 slots for expansion cards.

- **Dependable Performance and Durability:** The M ATX motherboard incorporates solid capacitors and 8 pin and 24 pin power connectors, ensuring stable performance. Built with robust PCB and metal materials, it provides consistent performance and extended longevity.



Image: A view of the motherboard highlighting the solid capacitors and 8-pin and 24-pin power connectors for stable power delivery.

PRODUCT SPECIFICATIONS

Feature	Specification
Model	H310M F R2.0
Chipset	H310 High Speed Chipset
CPU Compatibility	LGA 1151 for 9th/8th Gen Core, Pentium Gold, Celeron 14nm CPUs
Memory Type	2 x DDR4 DIMM slots, Dual Channel
Memory Speed Support	2933/2666/2400/2133 MHz
Max Memory Capacity	32GB
PCIe Slots	1 x PCI E X16, 2 x PCI E X1 (PCI E 3.0 standard)
Storage Interfaces	6 x Serial ATA III ports, 1 x M.2 Slot
USB Ports	6 x USB3.2 Gen1 (4 back, 2 internal), 6 x USB2.0 (2 back, 4 internal)
Video Interfaces	1 x VGA Port, 1 x DVI Port
LAN	Onboard RTL8111H Gigabit LAN Chip
Audio	Integrated ALC887 8 Channel Sound Chip
Power Connectors	One 8-Pin, One 24-Pin
Form Factor	M-ATX Form Factor
Battery Type	Built-in 240mAh CR2032 Battery

SETUP GUIDE

Follow these steps to properly install your Zyyini H310M F R2.0 motherboard into your computer system.

- 1. Prepare Your Workspace:** Ensure your workspace is clean, well-lit, and free of static electricity. Use an anti-static wrist strap if available.
- 2. Install the CPU:**

Carefully open the CPU socket lever. Align the CPU with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket. Gently place the CPU into the socket without forcing it. Close the lever to secure the CPU.

Versatile CPU Compatibility and Connectivity

The H310M F R2.0 motherboard supports for LGA 1151 9th 8th gen core, for Pentium Gold, and for Celeron series 14nm CPUs. It features an onboard for RTL8111H gigabit LAN card for smoother network connectivity, along with an integrated for ALC887 8 channel sound chip.



Image: Top-down view of the motherboard, showing the LGA 1151 CPU socket.

- 3. Install the CPU Cooler:** Apply thermal paste (if not pre-applied) and install the CPU cooler according to its manufacturer's instructions. Connect the CPU fan cable to the designated header on the motherboard (usually labeled "CPU_FAN").
- 4. Install RAM Modules:** Open the clips on both ends of the DDR4 DIMM slots. Align the RAM module with the slot, ensuring the notch on the module matches the key in the slot. Press down firmly on both ends until the clips snap into place.

Efficient Memory and Storage Options

Designed with 2 DDR4 memory slots supporting 2 channel DDR4 2933, 2666, 2400, 2133MHz RAM, the desktop computer motherboard has a maximum capacity of 32GB. It also includes six Serial ATA III ports and one M.2 slot for extensive storage compatibility.



Image: Angled view of the motherboard, highlighting the two DDR4 DIMM slots.

5. **Mount the Motherboard:** Install the I/O shield into your computer case. Carefully place the motherboard into the case, aligning the screw holes with the standoffs. Secure the motherboard with screws.
6. **Connect Power Supply:** Connect the 24-pin ATX power connector and the 8-pin CPU power connector from your power supply to the corresponding ports on the motherboard.
7. **Install Storage Devices:** Connect your SATA III storage drives (HDDs/SSDs) to the SATA ports on the motherboard using SATA data cables. Connect the M.2 SSD (if applicable) to the M.2 slot and secure it with the provided screw.
8. **Install Expansion Cards:** Insert your graphics card into the PCI E X16 slot. For other expansion cards (e.g., sound cards, network cards), use the PCI E X1 slots. Ensure cards are fully seated and secured.

Expandable PCI E Infrastructure

Featuring PCI E 3.0 standard, the motherboard offers 1 PCI E x16 slot and 2 PCI E x1 slots. These expansions facilitate the addition of dedicated graphics cards, sound cards, network cards, and other PCI E devices.

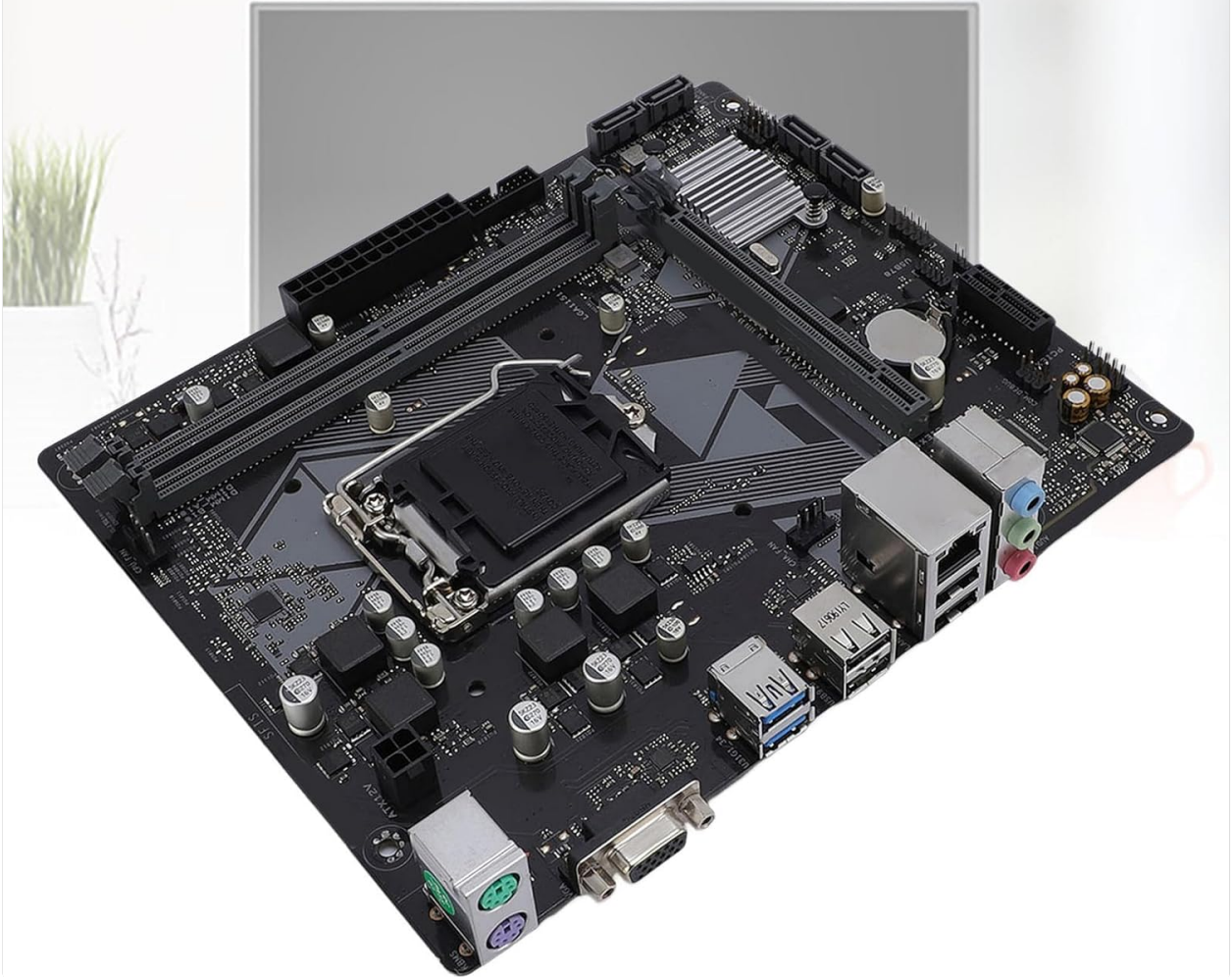


Image: The motherboard's PCI Express slots, ready for expansion cards.

9. **Connect Front Panel Cables:** Connect the power button, reset button, HDD LED, power LED, and front panel USB/audio cables to their respective headers on the motherboard. Refer to your case manual for specific pin assignments.
10. **Connect Peripherals:** Connect your monitor to the VGA or DVI port on the motherboard's rear I/O panel. Connect your keyboard, mouse, and other USB devices. Connect your Ethernet cable to the RJ45 port.

High Definition Visuals

Equipped with DVI and VGA outputs, the DDR4 motherboard allows connections to TVs and monitors for an enhanced HD experience. This makes the H310M F R2.0 ideal for home, design, and gaming applications.

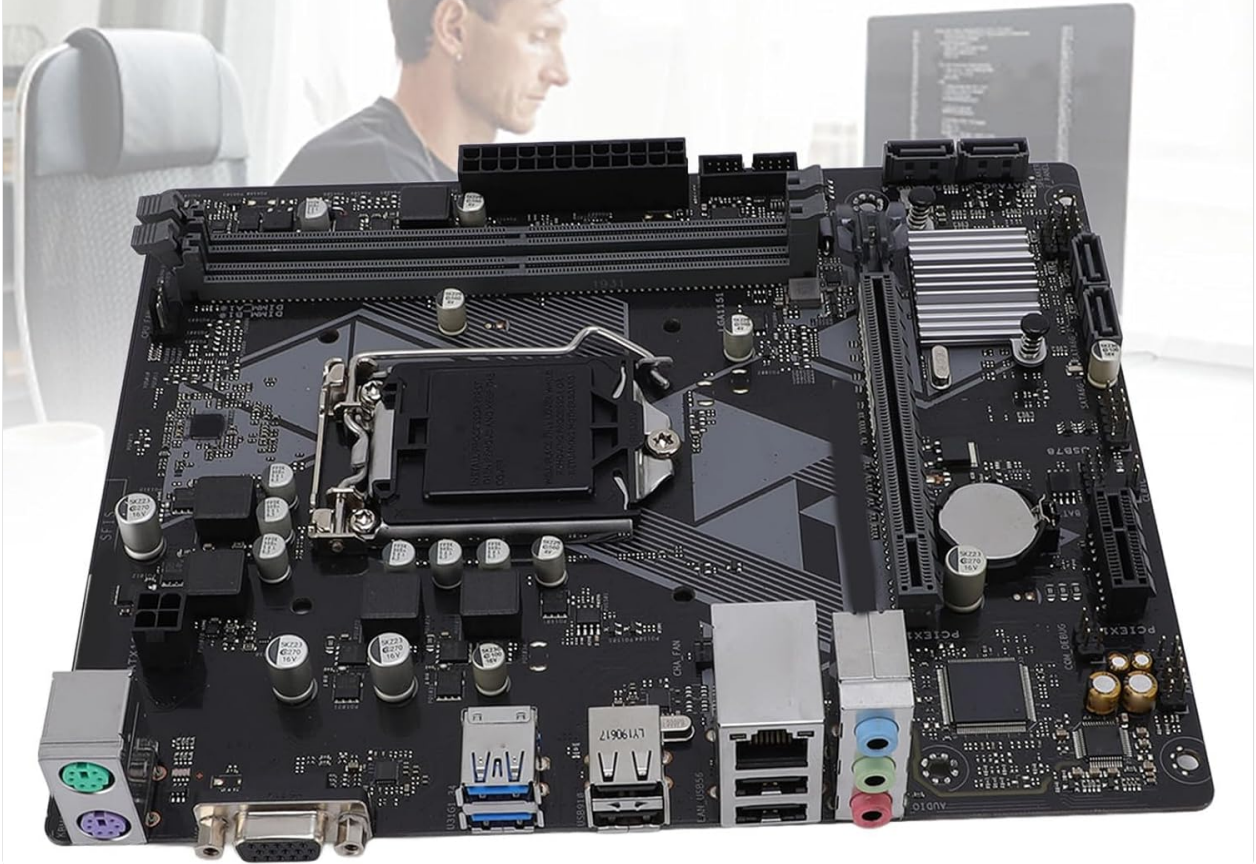


Image: Detailed view of the motherboard's rear input/output panel, including video, USB, LAN, and audio ports.

OPERATING INSTRUCTIONS

After completing the hardware installation, follow these steps to power on your system and install the operating system.

1. **Initial Boot:** Connect your power cable to the power supply and turn on the power supply switch. 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:** During startup, repeatedly press the designated key (usually **DEL** or **F2**) to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, and other advanced settings. Save and exit the BIOS after making any necessary changes.
3. **Operating System Installation:** Insert your operating system installation media (USB drive or DVD) and boot from it. Follow the on-screen instructions to install your preferred operating system.
4. **Driver Installation:** After the operating system is installed, install the necessary drivers for your motherboard components (chipset, LAN, audio, etc.). These drivers are typically provided on a CD/DVD with the motherboard or can be downloaded from the manufacturer's website.

MAINTENANCE AND CARE

Proper maintenance ensures the longevity and stable performance of your motherboard.

- **Dust Removal:** Regularly clean dust from inside your computer case, especially from fans and heatsinks, 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 compatibility, stability, and performance. Follow update instructions carefully to avoid system damage.
- **Cable Management:** Ensure all cables are neatly routed to improve airflow and prevent accidental disconnections.
- **Environmental Conditions:** Operate the motherboard in a well-ventilated area with stable temperature and humidity. Avoid extreme conditions.

TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps.

- **No Power:**
 - Check if the power supply is connected and switched on.
 - Ensure the 24-pin and 8-pin power connectors are securely seated on the motherboard.
 - Verify that the front panel power button cable is correctly connected to the motherboard header.
- **No Display:**
 - Ensure the monitor is connected to the correct video output (VGA or DVI) on the motherboard or dedicated graphics card.
 - Reseat the RAM modules. Try booting with only one RAM module installed.
 - If using a dedicated graphics card, ensure it is properly seated in the PCIe slot and has power connected (if required).
- **System Instability/Crashes:**
 - Check CPU and RAM temperatures. Ensure CPU cooler is properly installed.
 - Verify that all drivers are installed and up to date.
 - Run memory diagnostic tools to check for faulty RAM.
- **Operating System Not Booting:**
 - Check the boot order in BIOS/UEFI to ensure the correct drive is selected.
 - Verify that the SATA data and power cables for your storage drive are securely connected.

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official Zyyini website. Keep your proof of purchase for warranty claims.