Saved from manuals.plus.
Open the live page for links to other documents and user manuals.

Dpofirs H310 LGA 1151 Motherboard

Dpofirs H310 LGA 1151 Motherboard User Manual

Model: H310 LGA 1151

1. Introduction

This user manual provides comprehensive instructions for the Dpofirs H310 LGA 1151 Motherboard. It covers essential information regarding product features, installation procedures, operational guidelines, maintenance tips, and troubleshooting steps. Please read this manual carefully before installing or using your motherboard to ensure proper functionality and longevity.

2. Product Overview

The Dpofirs H310 LGA 1151 Motherboard is designed to support Intel 8th and 9th generation Core CPUs, offering a stable and reliable platform for your computing needs. It features dual-channel DDR4 memory support, multiple storage options including SATA 6Gb/s and NVMe M.2, and various expansion slots and I/O ports for versatile connectivity.



Figure 2.1: Top-down view of the Dpofirs H310 LGA 1151 Motherboard, showing the CPU socket, RAM slots, and various connectors.

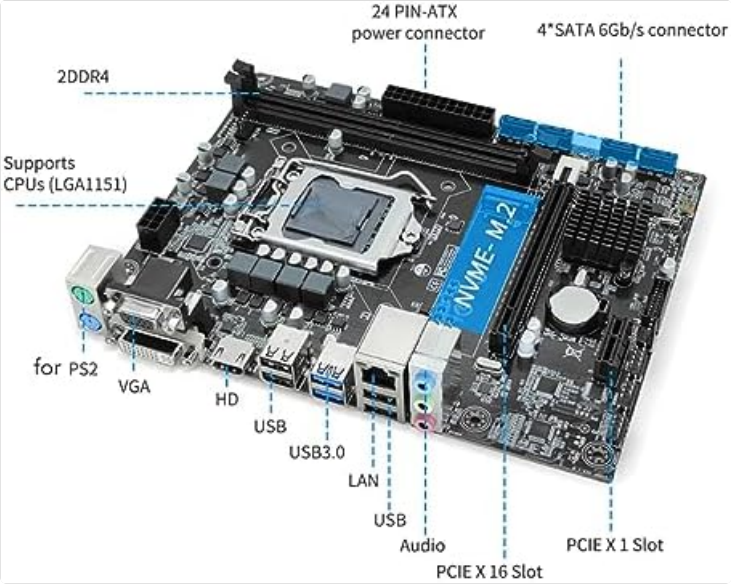

Figure 2.2: Labeled diagram of the Dpofirs H310 LGA 1151 Motherboard, highlighting key components such as the CPU socket, DDR4 slots, 24-pin ATX power connector, 4*SATA 6Gb/s connectors, NVME M.2 slot, PCIe X16 slot, PCIe X1 slot, PS/2 ports, VGA, HD (HDMI), USB 3.0, USB, LAN, and Audio ports.

3. Specifications

Feature	Description
Item Type	H310 LGA 1151 Motherboard
Material	PCB
Size	Approx. 21.5 x 17 cm (8.5 x 6.7 inches) - Micro ATX
Battery	CR2032 (built-in), Capacity: 240 mAh

Feature	Description
CPU Support	Intel Core 8th and 9th Generation (LGA1151 Socket)
Memory	Dual Channel DDR4 2666/2400/2133 MHz, Max 32GB (2 x DIMM slots)
Graphics	Integrated Graphics Processor
Audio	Realtek ALC662 6-Channel Sound Card
LAN	Realtek 100/1000Mbps LAN Controller
Expansion Slots	1 x PCI Express X16, 1 x PCI Express X1
Storage Connectors	4 x SATA 6Gb/s, 1 x NVME M.2
Internal I/O	1 x Front Panel, 1 x COM, 1 x Front Audio, 1 x USB 2.0/1.1 (supports 2 x USB 2.0), 1 x USB 3.0 (supports 2 x USB 3.0)
Rear I/O Ports	4 x USB 2.0/1.1, 2 x USB 3.0, 1 x PS/2, 1 x VGA, 1 x DVI, 1 x HD Multimedia Interface, 1 x RJ45, 1 x Sound Jack

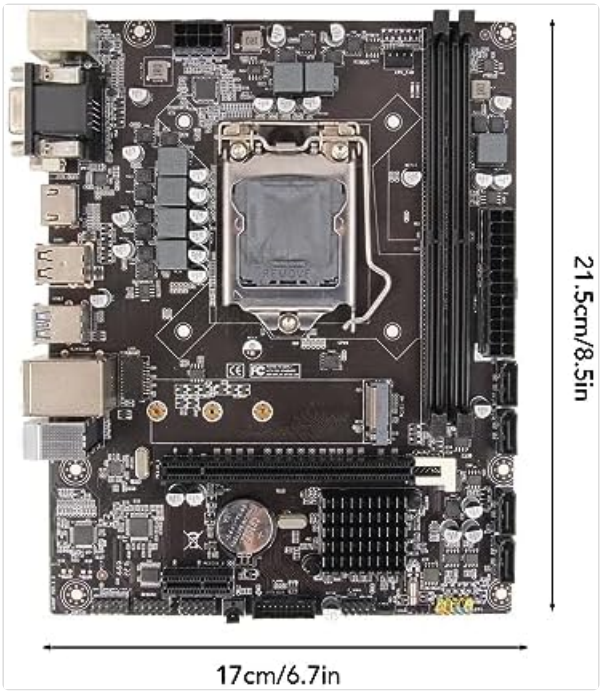

Figure 3.1: Dimensions of the Dpofirs H310 LGA 1151 Motherboard, approximately 21.5 cm (8.5 inches) by 17 cm (6.7 inches).

4. Setup and Installation

4.1. CPU Installation

1. Carefully open the CPU socket lever.
2. Align the CPU (Intel 8th/9th Gen LGA1151) with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket.
3. Gently place the CPU into the socket without forcing it.
4. Close the CPU socket lever to secure the CPU in place.



Figure 4.1: Close-up view of the LGA 1151 CPU socket, ready for processor installation.

4.2. Memory (RAM) Installation

1. Locate the two DDR4 DIMM slots on the motherboard.
2. Open the clips at both ends of the memory slot.
3. Align the memory module with the slot, ensuring the notch on the module matches the key in the slot.
4. Press down firmly on both ends of the memory module until the clips snap into place.



Figure 4.2: Close-up view of the DDR4 memory slots on the motherboard.

4.3. Storage Device Installation

4.3.1. SATA Drives

1. Connect one end of a SATA data cable to a SATA 6Gb/s connector on the motherboard.
2. Connect the other end of the SATA data cable to your SATA hard drive or SSD.
3. Connect a SATA power cable from your power supply to the SATA drive.



Figure 4.3: View of the four SATA 6Gb/s ports on the motherboard.

4.3.2. NVMe M.2 SSD

1. Locate the NVMe M.2 slot on the motherboard.

2. Insert the NVMe M.2 SSD into the slot at an angle.
3. Gently push down the SSD and secure it with the provided screw.

4.4. Power Connections

1. Connect the 24-pin ATX power connector from your power supply to the corresponding slot on the motherboard.
2. Connect the 8-pin CPU power connector (EPS 12V) from your power supply to the CPU power socket near the CPU.



Figure 4.4: Close-up of the CPU socket area, showing the 8-pin CPU power connector.

4.5. I/O Panel Connections

Connect your peripherals to the rear I/O panel:

- **USB Devices:** Connect USB keyboards, mice, and other peripherals to the USB 2.0 or USB 3.0 ports.
- **Display:** Connect your monitor to the VGA, DVI, or HD Multimedia Interface (HDMI) port.
- **Network:** Connect an Ethernet cable to the RJ45 LAN port for internet access.
- **Audio:** Connect speakers or headphones to the appropriate audio jacks.
- **PS/2:** Connect legacy PS/2 keyboards or mice to the PS/2 port.



Figure 4.5: Close-up view of the rear I/O ports, including VGA, DVI, USB, HD Multimedia Interface, LAN, and audio jacks.

4.6. Expansion Cards

Install graphics cards or other expansion cards into the PCI Express X16 or X1 slots as needed. Ensure the card is fully seated and secured with a screw to the chassis.

5. Operating Instructions

5.1. Initial Boot-up

1. After all components are installed and connected, ensure the power supply is switched on.
2. Press the power button on your computer case.
3. The system should power on and display the BIOS/UEFI splash screen.

5.2. BIOS/UEFI Settings

To access the BIOS/UEFI setup utility, press the designated key (commonly **DEL** or **F2**) repeatedly during the initial boot-up sequence. Here you can configure boot order, system time, and other advanced settings.

5.3. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard components (chipset, LAN, audio, integrated graphics) from the manufacturer's website or an included driver disc (if applicable). This ensures optimal performance and stability.



Figure 5.1: Illustration of the Intel H310 chipset, which provides high-speed performance and stability.

6. Maintenance

6.1. Cleaning

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

6.2. BIOS Updates

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

6.3. CMOS Battery Replacement

The motherboard uses a CR2032 coin cell battery to retain BIOS settings and system time. If your system consistently loses time or BIOS settings, the battery may need replacement. Ensure the system is powered off and unplugged before replacing the battery.

7. Troubleshooting

This section addresses common issues you might encounter with your motherboard.

- **No Display:** Ensure your monitor is connected to the correct video output on the motherboard or graphics card. Check that all power cables (24-pin ATX, 8-pin CPU, GPU) are securely connected. Reseat RAM modules and the graphics card.
- **System Not Booting:** Verify that the CPU is correctly installed and the CPU cooler is properly seated. Check all power connections. Listen for beep codes from the motherboard, which can indicate specific hardware issues.
- **Peripherals Not Working:** Try connecting USB devices to different ports. Ensure drivers for USB controllers are installed. For PS/2 devices, ensure they are connected before booting the system.
- **Storage Drive Not Detected:** Check SATA data and power cable connections. For NVMe M.2 SSDs, ensure they are properly seated and secured. Verify drive detection in BIOS/UEFI settings.
- **Windows 11 Compatibility:** Please note that this motherboard may not support Windows 11 directly due to the absence of a Trusted Platform Module (TPM) 2.0, which is a requirement for Windows 11. If Windows 11 is desired, ensure your CPU supports TPM 2.0 and check for BIOS settings to enable it, or consider alternative operating systems.
- **Bent Pins:** If you encounter issues immediately after CPU installation, carefully inspect the CPU socket for any bent pins. Bent pins can prevent the CPU from making proper contact and cause system failure.

8. Warranty and Support

Specific warranty details for the Dpofirs H310 LGA 1151 Motherboard are not provided in this document. For warranty claims, technical support, or further assistance, please contact your retailer or the manufacturer directly. Keep your proof of purchase for any warranty-related inquiries.

© 2023 Dpofirs. All rights reserved.

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/B0CF9VYXY4

More documents and user manuals: **https://manuals.plus/**