

Dpofirs Dpofirsq6kgis2z1w

Dpofirs H310 LGA 1151 Micro ATX Motherboard User Manual

Model: Dpofirsq6kgis2z1w

1. INTRODUCTION

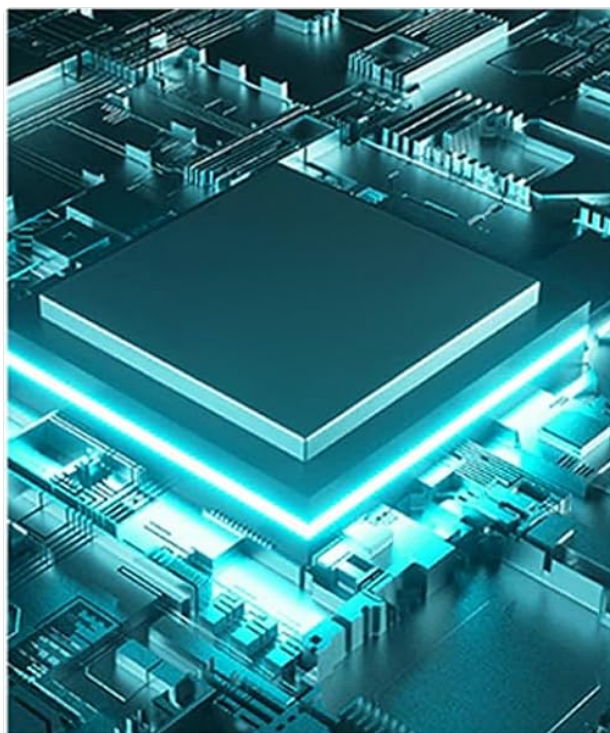
This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Dpofirs H310 LGA 1151 Micro ATX Motherboard. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance. Keep this manual for future reference.

2. PRODUCT OVERVIEW

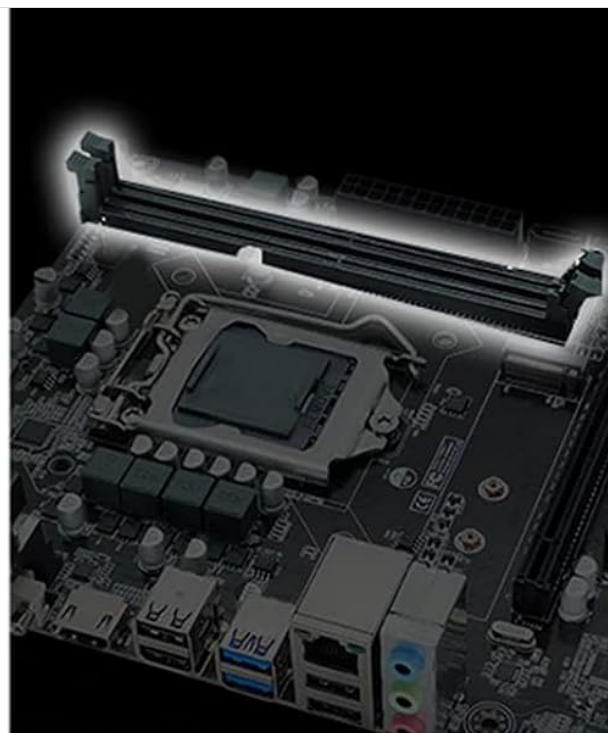
The Dpofirs H310 LGA 1151 Micro ATX Motherboard is designed to support 8th and 9th generation Intel Core CPUs. It features a robust power supply, dual-channel DDR4 memory support, and a high-speed H310 chipset, making it suitable for various computing tasks. The board includes integrated graphics support and multiple display outputs for versatile connectivity.



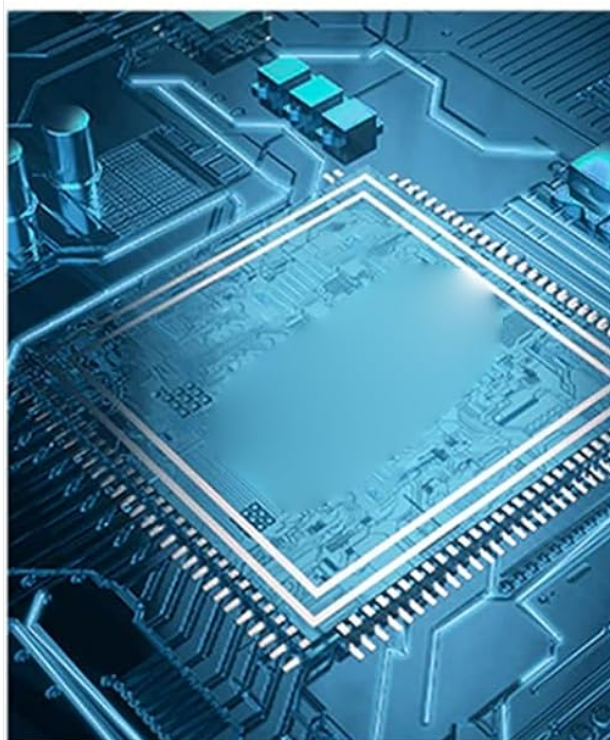
Figure 2.1: Top-down view of the Dpofirs H310 LGA 1151 Micro ATX Motherboard, highlighting the CPU socket, RAM slots, and various connectors.



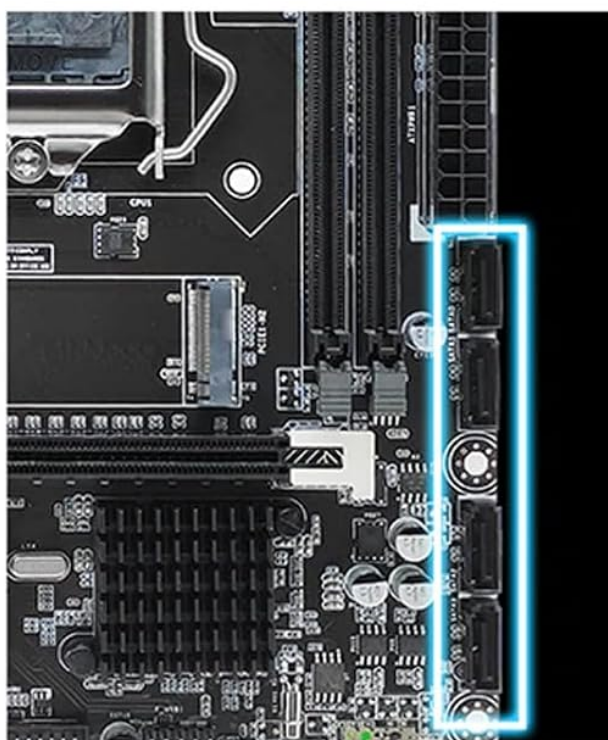
CPU Supports LGA1151 series processors



Memory Memory up to 32GB



Chipset for Intel H310



SATA 4x SATA3.0 (6GB/s) ports

Figure 2.2: Key features of the motherboard including CPU support for LGA1151 series processors, memory support up to 32GB, Intel H310 chipset, and 4x SATA 3.0 (6Gb/s) ports.

3. SETUP INSTRUCTIONS

Follow these steps carefully to install your motherboard and its components.

3.1. Component Identification

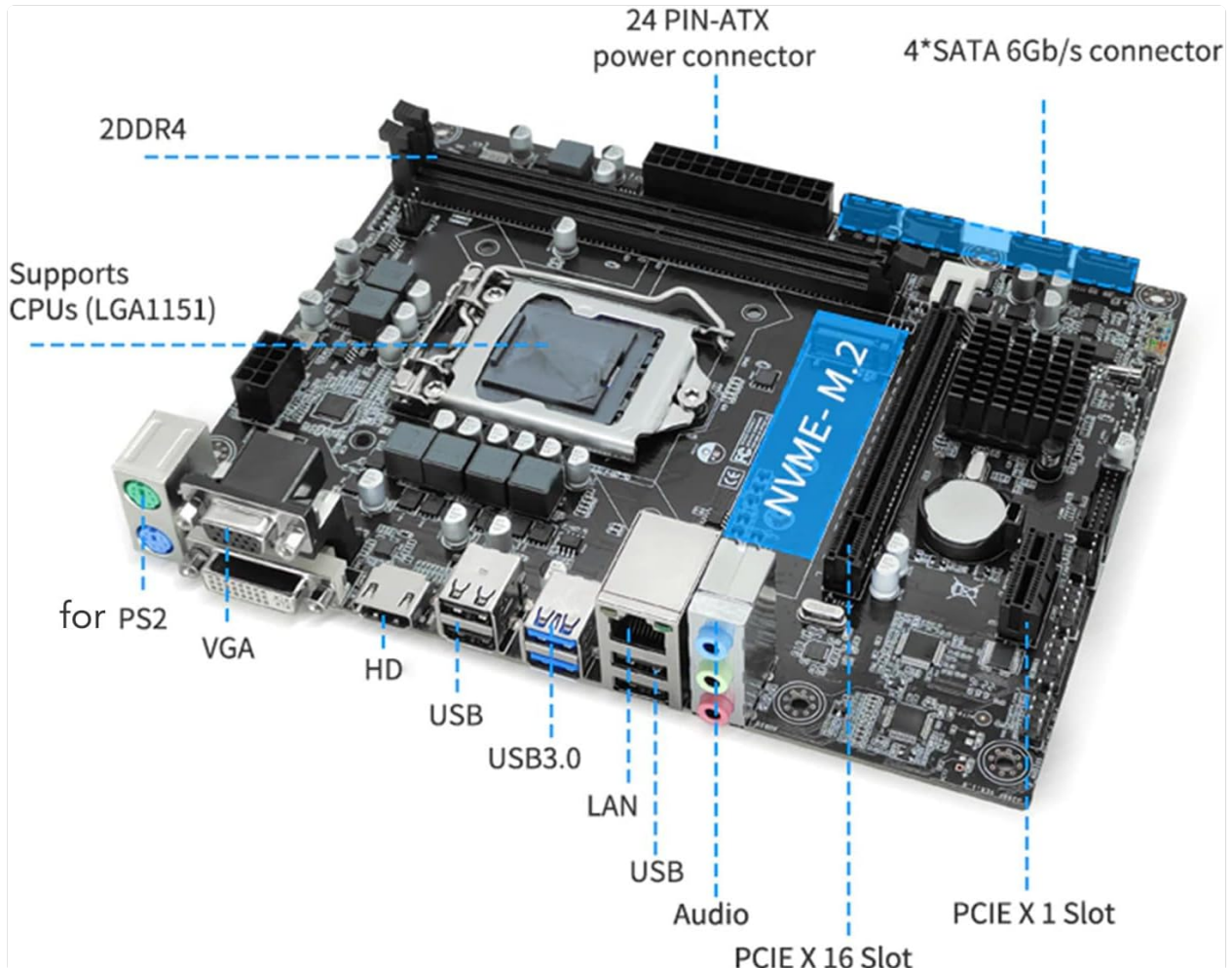


Figure 3.1: Detailed diagram of the motherboard showing the location of the 24-PIN ATX power connector, 4x SATA 6Gb/s connectors, 2x DDR4 slots, LGA1151 CPU socket, NVME M.2 connector, PS/2 ports, VGA, DVI, HDMI, USB 3.0, USB 2.0, LAN, Audio ports, PCIe X16 slot, and PCIe X1 slot.



Figure 3.2: Rear I/O panel showing PS/2 ports for keyboard and mouse, VGA port, DVI port, HDMI compatible port, USB 2.0 ports, USB 3.0 ports, RJ45 LAN port, and audio jacks.

3.2. CPU Installation

1. Locate the LGA 1151 CPU socket on the motherboard.
2. Gently push down the load lever and pull it away from the socket to open the CPU socket cover.
3. Align the CPU with the socket, ensuring the golden triangle on the CPU matches the triangle mark on the socket. Carefully place the CPU into the socket without forcing it.
4. Close the load plate and push the load lever back into place until it clicks.

5. Apply thermal paste to the CPU and install the CPU cooler according to its manufacturer's instructions.

3.3. Memory (RAM) Installation

1. Locate the DDR4 DIMM slots. This motherboard supports dual-channel DDR4 memory.
2. Open the clips at both ends of the DIMM slot.
3. Align the notch on the RAM module with the key in the DIMM slot.
4. Insert the RAM module firmly into the slot until the clips snap into place. Ensure both clips are closed.

3.4. Storage Device Installation

3.4.1. 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 unit (PSU) to the SATA drive.

3.4.2. NVMe M.2 SSD

1. Locate the NVMe M.2 connector on the motherboard.
2. Remove the M.2 standoff screw.
3. Insert the M.2 SSD into the slot at a 30-degree angle.
4. Gently push down the M.2 SSD and secure it with the standoff screw.

3.5. Power Supply Connection

1. Connect the 24-pin ATX main power connector from your PSU to the corresponding slot on the motherboard.
2. Connect the 4-pin or 8-pin ATX 12V power connector (CPU power) from your PSU to the corresponding slot near the CPU socket.

3.6. Peripheral Connections

- **Front Panel Connectors:** Connect the power switch, reset switch, HDD LED, and power LED cables from your PC case to the front panel header on the motherboard. Refer to your PC case manual for specific pin assignments.
- **USB Ports:** Connect front panel USB 2.0 and USB 3.0 cables to the respective headers on the motherboard.
- **Audio:** Connect the front panel audio cable to the front audio header.
- **Expansion Cards:** Insert graphics cards or other PCIe expansion cards into the PCI Express X16 or X1 slots and secure them with the case's retention mechanism.

4. OPERATING INSTRUCTIONS

After completing the hardware installation, connect your monitor, keyboard, and mouse to the rear I/O panel. Power on your system. The motherboard will initiate the boot process. You may need to enter the BIOS/UEFI setup to configure boot order, enable XMP for memory, or adjust other system settings. Refer to the BIOS/UEFI section of your system's documentation for detailed instructions.

Install your operating system (e.g., Windows 10) and necessary drivers for the chipset, integrated graphics, LAN, and audio. Drivers are typically available on the manufacturer's website or included with the

motherboard.

5. 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 manufacturer's website for BIOS/UEFI updates. Updates can improve stability, compatibility, and performance. Follow the update instructions carefully to avoid system damage.
- **Driver Updates:** Keep your system drivers updated for optimal performance and security.

6. TROUBLESHOOTING

- **No Power:**
 - Check all power connections (24-pin ATX, 4/8-pin CPU power) from the PSU to the motherboard.
 - Ensure the PSU is switched on and connected to a working power outlet.
 - Verify front panel power switch connection.
- **No Display:**
 - Ensure the monitor is connected to the correct display output (VGA, DVI, or HDMI) on the motherboard or discrete graphics card.
 - Reseat RAM modules. Incorrectly seated RAM is a common cause of no display.
 - If using a discrete graphics card, ensure it is properly seated in the PCIe slot and has adequate power.
- **System Instability/Crashes:**
 - Check CPU and GPU temperatures. Overheating can cause instability.
 - Run memory diagnostic tools to check for faulty RAM.
 - Ensure all drivers are correctly installed and up to date.
- **Operating System Not Booting:**
 - Verify boot order in BIOS/UEFI settings.
 - Check SATA/M.2 connections for your boot drive.
 - If the OS was recently installed, ensure all necessary drivers are present.

7. SPECIFICATIONS

The following table details the technical specifications of the Dpofirs H310 LGA 1151 Micro ATX Motherboard.

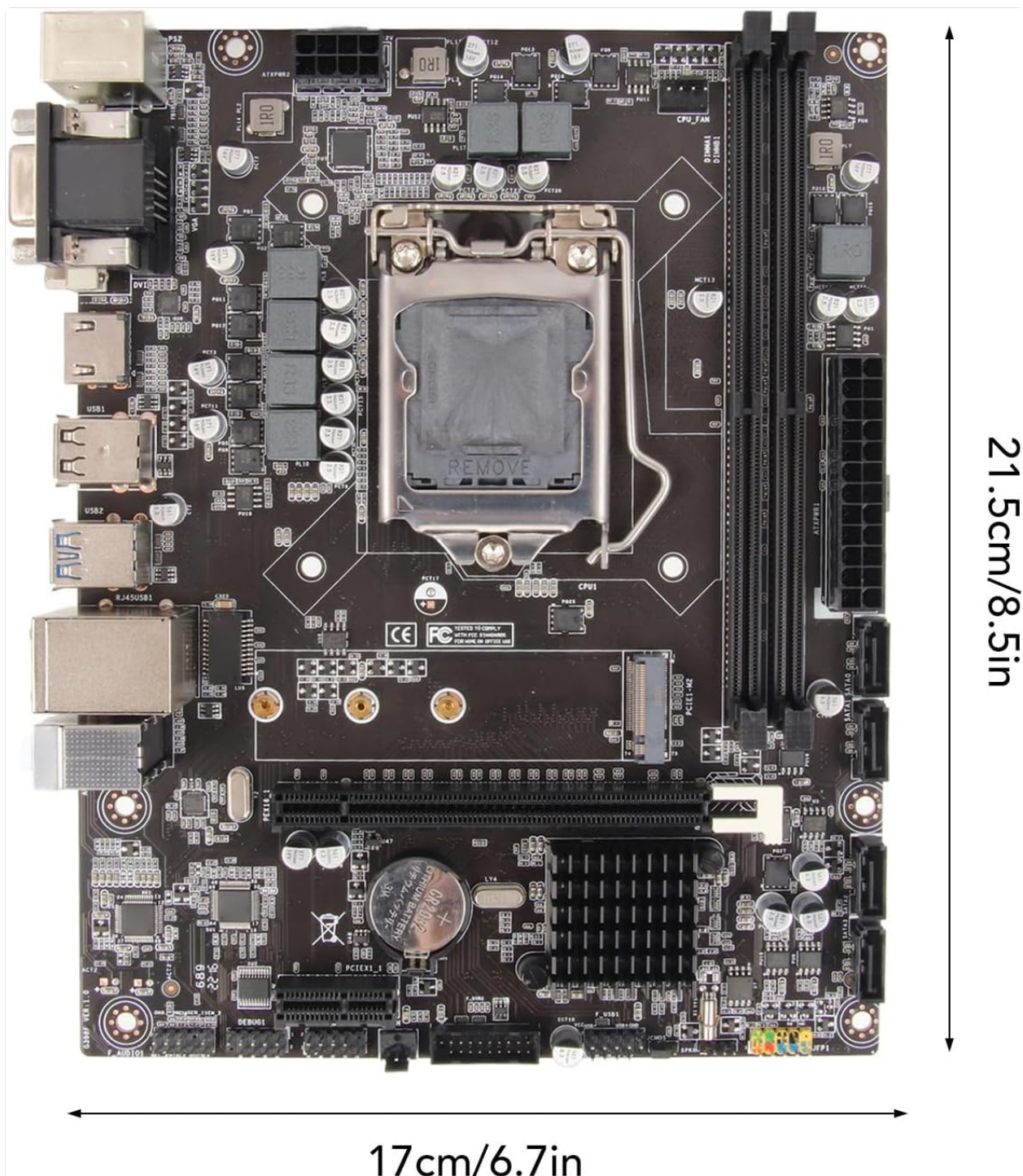


Figure 7.1: Physical dimensions of the motherboard, approximately 21.5cm (8.5in) by 17cm (6.7in).

Feature	Specification
Model	H310
Architecture	Micro ATX (Approx. 21.5x17cm / 8.5x6.7in)
CPU Socket	LGA 1151
Compatible CPUs	8th and 9th Generation Intel Core (for Ivy Bridge)
Chipset	Intel H310

Feature	Specification
Memory	2 x DDR4 DIMM slots, Dual Channel Architecture, supports DDR4 2666/2400/2133 MHz, up to 32GB per DIMM (64GB total)
Graphics	Integrated Graphics Processor, DVI, HDMI, VGA ports
Storage	4 x SATA 6Gb/s connectors, 1 x NVMe M.2 connector
Expansion Slots	1 x PCI Express X16 Slot, 1 x PCI Express X1 Slot
LAN	Realtek 100M/1000M LAN Controller
Audio	Realtek ALC662 6-Channel Sound Codec
USB Ports (Rear)	4 x USB 2.0/1.1, 2 x USB 3.0
USB Headers (Internal)	1 x USB 2.0/1.1 connector (supports 2 x USB 2.0), 1 x USB 3.0 connector (supports 2 x USB 3.0)
Other I/O Connectors	1 x Front Panel Connector, 1 x COM Connector, 1 x Front Sound Connector, 1 x PS/2 Port, 1 x RJ45 Port, 1 x Sound Jack
Battery	CR2032 (Built-In) Capacity: 240 mAh

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or contact your retailer. You may also visit the official Dpofirs website for additional resources and support options.

Product Model: Dpofirsq6kgis2z1w

Brand: Dpofirs