

Dpofirs H311M K

Dpofirs H311M K LGA 1151 Motherboard User Manual

Model: H311M K

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your Dpofirs H311M K LGA 1151 Motherboard. Please read this manual thoroughly before installation and use to ensure proper functionality and to prevent damage.

2. SAFETY INFORMATION

- Always disconnect the power supply before installing or removing any components.
- Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.
- Handle the motherboard by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your computer case to prevent overheating.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- 1 x Dpofirs LGA 1151 Motherboard (H311M K)
- 1 x Metal I/O Shield Plate
- 1 x SATA Data Cable

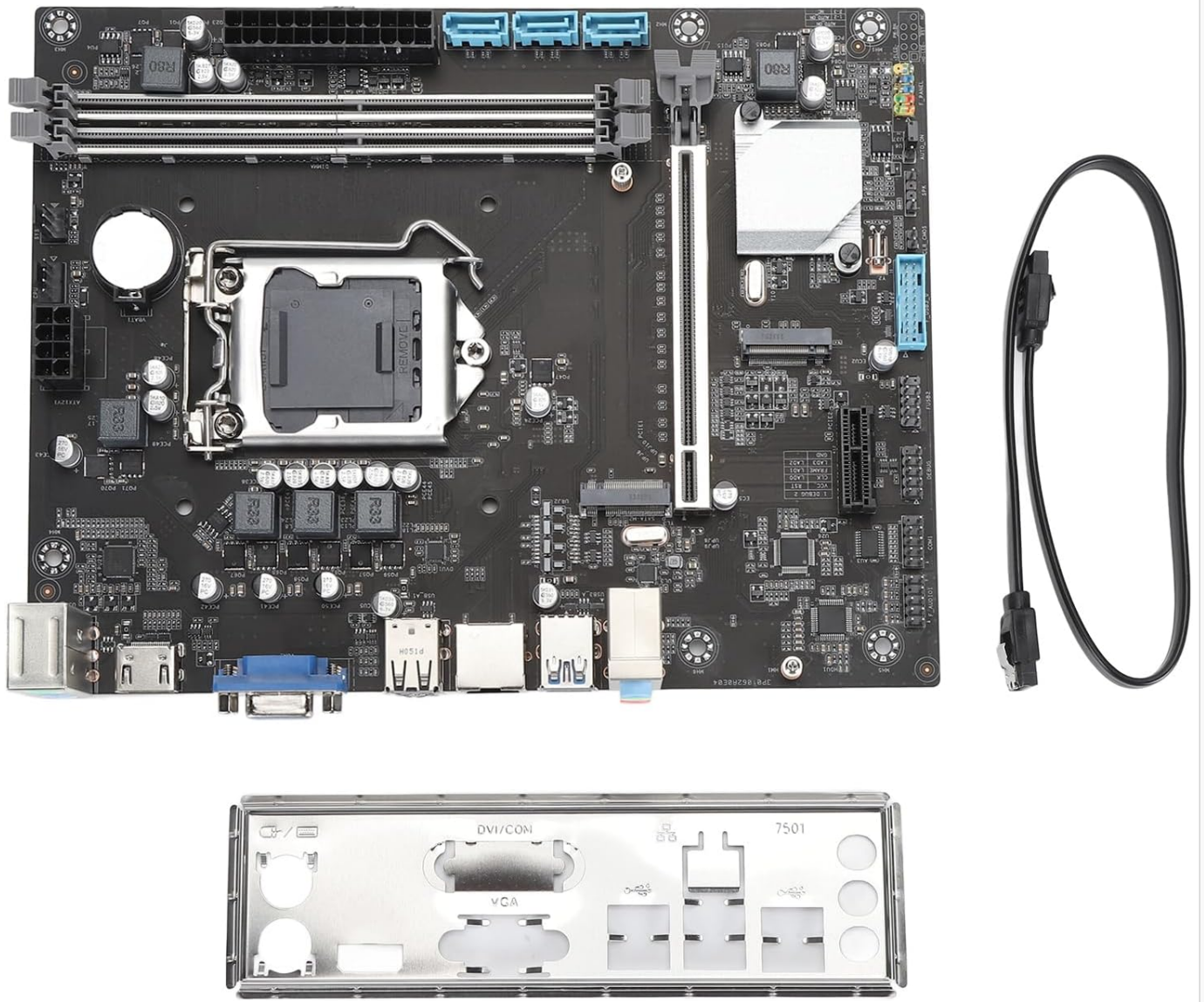


Image: The Dpopfirs H311M K Motherboard shown with its included metal I/O shield and SATA data cable.

4. SETUP AND INSTALLATION

4.1 Motherboard Layout

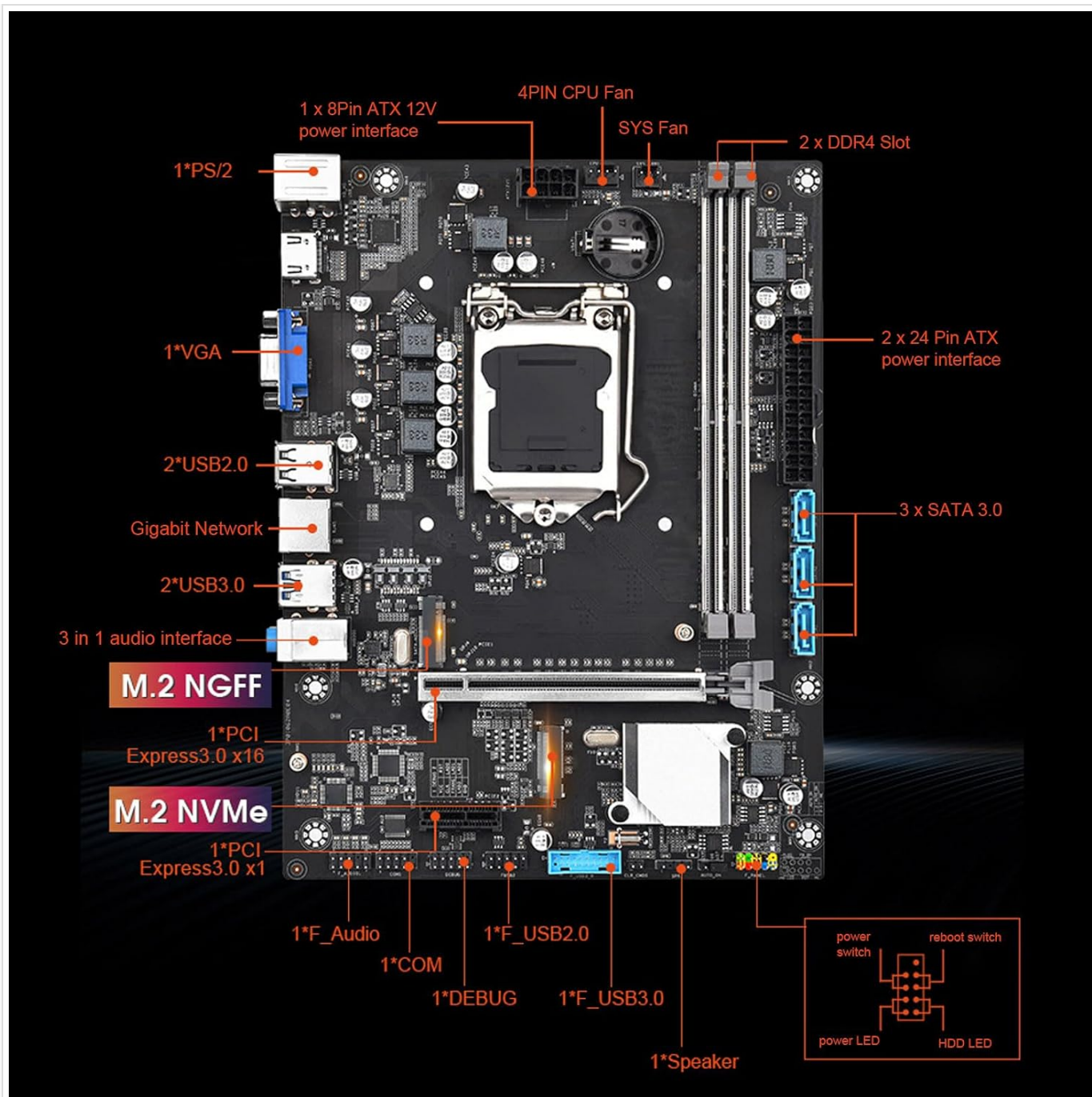


Image: A detailed diagram highlighting the various ports and connectors on the Dpofirs H311M K Motherboard, including CPU fan, system fan, USB headers, SATA ports, M.2 slots, PCIe slots, and I/O panel connectors.

4.2 CPU Installation

1. Locate the LGA 1151 CPU socket on the motherboard.
2. Open the CPU socket lever and lift the metal retention plate.
3. Carefully align your Intel 6th, 7th, 8th, or 9th Gen CPU with the socket, matching the gold triangle on the CPU to the triangle on the socket.
4. Gently place the CPU into the socket without forcing it.
5. Close the metal retention plate and secure it with the lever.
6. Apply thermal paste to the CPU and install the CPU cooler.

4.3 Memory (RAM) Installation

1. Locate the two DDR4 UDIMM memory slots.

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

4.4 Storage Device Installation (SATA & M.2)

1. **SATA Drives:** Connect SATA data cables from your storage devices (HDDs/SSDs) to the SATA3.0 ports on the motherboard. Connect power cables from your power supply to the drives.
2. **M.2 NVMe SSD:** Insert the M.2 NVMe SSD into the M.2 2280 NVMe x4 slot, securing it with the provided screw.
3. **M.2 NGFF SATA SSD:** Insert the M.2 NGFF SATA SSD into the M.2 2280 NGFF SATA SSD slot, securing it with the provided screw.

4.5 Power Connections

1. Connect the 24-pin ATX power connector from your power supply to the 24-pin power interface on the motherboard.
2. Connect the 8-pin 12V CPU power connector from your power supply to the 8-pin 12V power interface near the CPU socket.

4.6 Front Panel and Peripheral Connections

1. Connect the front panel headers (Power LED, HDD LED, Power Switch, Reset Switch) to the corresponding pins on the motherboard (refer to the motherboard layout diagram).
2. Connect USB 2.0 and USB 3.0 front panel cables to the respective headers.
3. Connect the front audio panel cable to the F_Audio header.
4. Install any expansion cards (e.g., graphics card) into the PCIe3.0 x16 or PCIe3.0 x1 slots.

5. OPERATING INSTRUCTIONS

5.1 Initial Boot-Up

1. After all components are installed and connected, ensure your monitor, keyboard, and mouse are connected.
2. Turn on the power supply and 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 Setup

To enter the BIOS/UEFI setup utility, press the designated key (usually **DEL** or **F2**) repeatedly during the initial boot-up sequence. Within the BIOS, you can configure:

- Boot order for storage devices.
- System date and time.
- CPU and memory settings.
- Peripheral configurations.

5.3 Operating System Installation

Once BIOS settings are configured, you can proceed with installing your preferred operating system (e.g., Windows, Linux) from a bootable USB drive or DVD. Follow the on-screen instructions provided by your operating system installer.

5.4 Driver Installation

After installing the operating system, install the necessary drivers for the motherboard components. These typically

include chipset drivers, network drivers (RTL8111H Gigabit Network), audio drivers (ALC897 7.1 Channel), and any other peripheral drivers. Drivers are usually provided on a CD/DVD with the motherboard or can be downloaded from the manufacturer's website.

6. MAINTENANCE

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

7. TROUBLESHOOTING

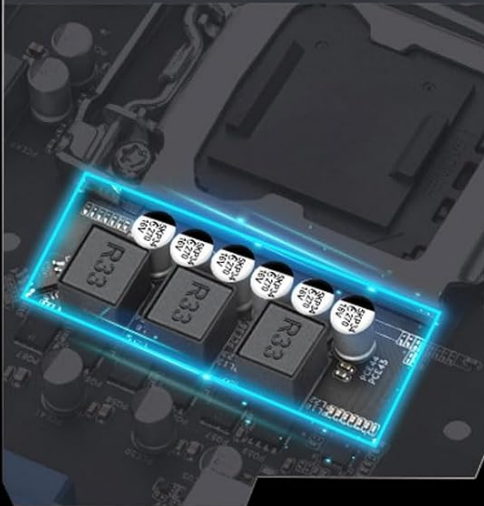
If you encounter issues, refer to the following common troubleshooting steps:

- **No Power:** Check all power connections (24-pin ATX, 8-pin 12V CPU, power supply to components). Ensure the power supply switch is on.
- **No Display:** Verify that the monitor is connected to the correct video output (motherboard or graphics card) and is powered on. Reseat the graphics card and RAM modules.
- **System Instability/Crashes:** Check RAM seating. Ensure CPU cooler is properly installed and making good contact. Verify power supply is sufficient for all components.
- **Operating System Not Booting:** Check boot order in BIOS. Ensure the operating system drive is detected.
- **Peripheral Not Detected:** Ensure the peripheral is correctly connected. Check device manager in the operating system for driver issues.

8. SPECIFICATIONS

The Dpofirs H311M K Motherboard features a robust design with key components for stable performance:

All solidstate capacitor



SATA3.0 interface



multi layer printed
circuit board



Aluminium radiator, high
stability for better performance

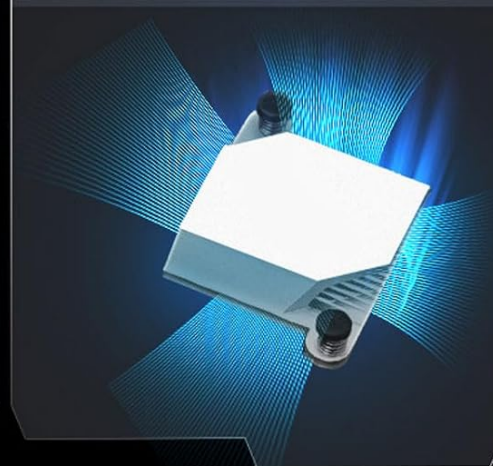


Image: Visual representation of key motherboard features including all solid-state capacitors for stable power, SATA3.0 interfaces for high-speed storage, a multi-layer printed circuit board for durability, and an aluminum radiator for efficient heat dissipation.



Image: Highlights of the motherboard's capabilities, showing 2 DDR4 memory slots supporting up to 32GB, LGA 1151 socket for Intel 6th-9th Gen CPUs, a PCIE3.0 x16 slot for high-bandwidth graphics, and a Gigabit Network port for fast internet connectivity.

Feature	Specification
CPU Socket	LGA 1151 (Supports Intel 6th, 7th, 8th, 9th Gen Core i3/i5/i7 series)
Chipset	Intel H110
Memory	2 x UDIMM DDR4 slots, 1866/2133/2400/2666MHz, Dual Channel, Max 32GB
Storage	3 x SATA3.0 ports, 1 x M.2 2280 NVMe x4 slot, 1 x M.2 2280 NGFF SATA SSD slot
Expansion Slots	1 x PCIE3.0 x16 slot, 1 x PCIE3.0 x1 slot
Video Output	1 x HD Multimedia Interface (supports 4K/30Hz), 1 x VGA
USB Interfaces	2 x USB 2.0, 2 x USB 3.0 (rear panel); 1 x USB 2.0 header, 1 x USB 3.0 header (internal)

Feature	Specification
Network	1 x RTL8111H Gigabit Network Port
Audio	ALC897 7.1 Channel Audio Chip
BIOS	EFI BIOS
Power Supply	24-pin ATX + 8-pin 12V
Form Factor	M-ATX

9. WARRANTY AND SUPPORT

This Dpofirs motherboard comes with a standard manufacturer's warranty. Please refer to the product packaging or the official Dpofirs website for specific warranty terms and conditions.

For technical support, driver downloads, or further assistance, please visit the official Dpofirs support page or contact customer service through the retailer where the product was purchased.

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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