

Acogedor B460M K PRO

Acogedor B460M K PRO Motherboard User Manual

Model: B460M K PRO

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your Acogedor B460M K PRO motherboard. Designed for 10th Generation Intel Core i9, i7, i5, i3, Pentium Gold, and Celeron processors, this motherboard offers a stable and efficient platform for your computing needs. Please read this manual thoroughly before proceeding with installation or use.

2. SAFETY INFORMATION

Always observe the following safety precautions to prevent damage to the motherboard or injury to yourself:

- **Electrostatic Discharge (ESD) Protection:** Always wear an anti-static wrist strap or frequently touch a grounded metal object before handling the motherboard or any components.
- **Power Off:** Ensure the power supply is disconnected from the wall outlet before installing or removing any components.
- **Handle with Care:** Avoid touching the gold contacts on components or the motherboard. Hold components by their edges.
- **Ventilation:** Ensure proper airflow within your PC case to prevent overheating.
- **Professional Installation:** If you are unsure about any installation steps, consult a qualified technician.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x Acogedor B460M K PRO Motherboard
- 1 x I/O Backplate

If any items are missing or damaged, please contact your retailer.

4. PRODUCT OVERVIEW

The Acogedor B460M K PRO motherboard is designed for optimal performance and stability. Below are key features and component locations.



Figure 4.1: Motherboard Layout (CPU Socket and Memory Slots)

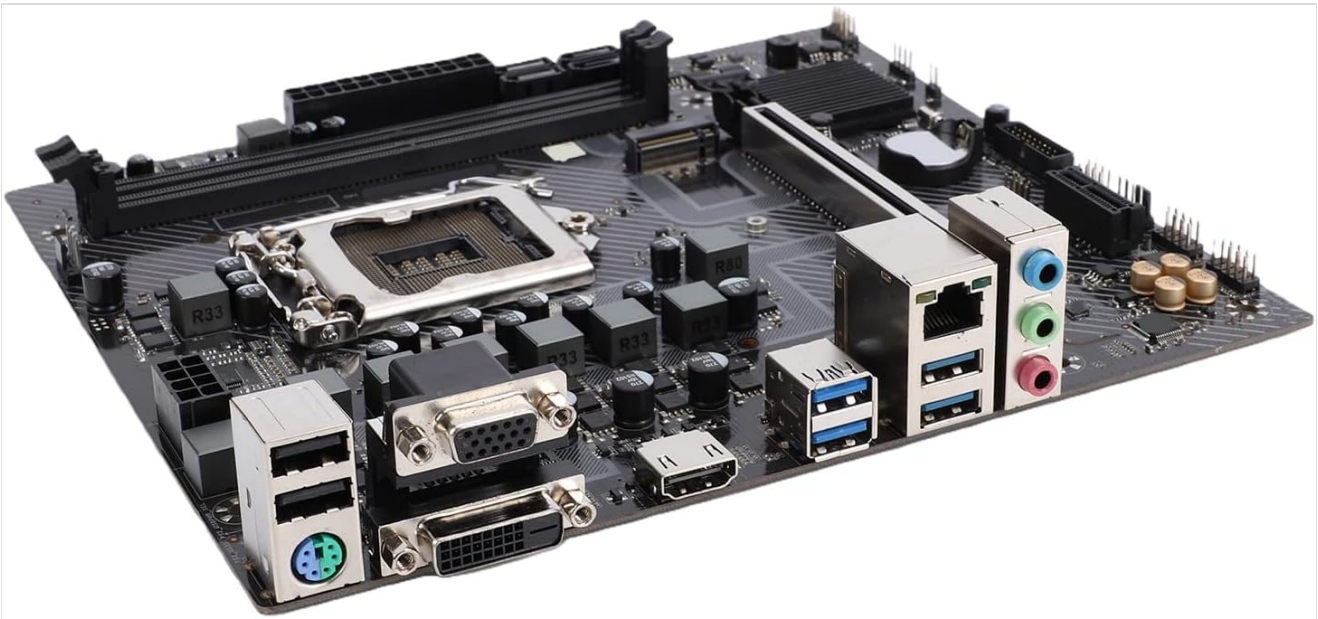


Figure 4.2: Rear I/O Ports

4.1. Key Components

- **LGA 1200 CPU Socket:** Supports 10th Generation Intel Core i9/i7/i5/i3, Pentium Gold, and Celeron processors.
- **DDR4 DIMM Slots:** Two dual-channel slots supporting up to 64GB of DDR4 memory.
- **M.2 2280 Slot:** Supports PCIe 3.0 x4 and Serial ATA 6Gb/s NVMe/Optane SSDs.
- **SATA III Ports:** Four Serial ATA 6Gb/s ports for storage devices.
- **PCIe Slot:** For graphics cards and other expansion cards.
- **Rear I/O Ports:** Includes USB ports, Ethernet, audio jacks, and video outputs (VGA, HDMI, DVI, depending on specific model configuration).

5. SETUP AND INSTALLATION

Follow these steps for proper installation of the motherboard and its components.

5.1. Preparing the Case

1. Ensure your PC case is compatible with Micro-ATX motherboards.
2. Install the I/O backplate into the rear opening of your PC case.

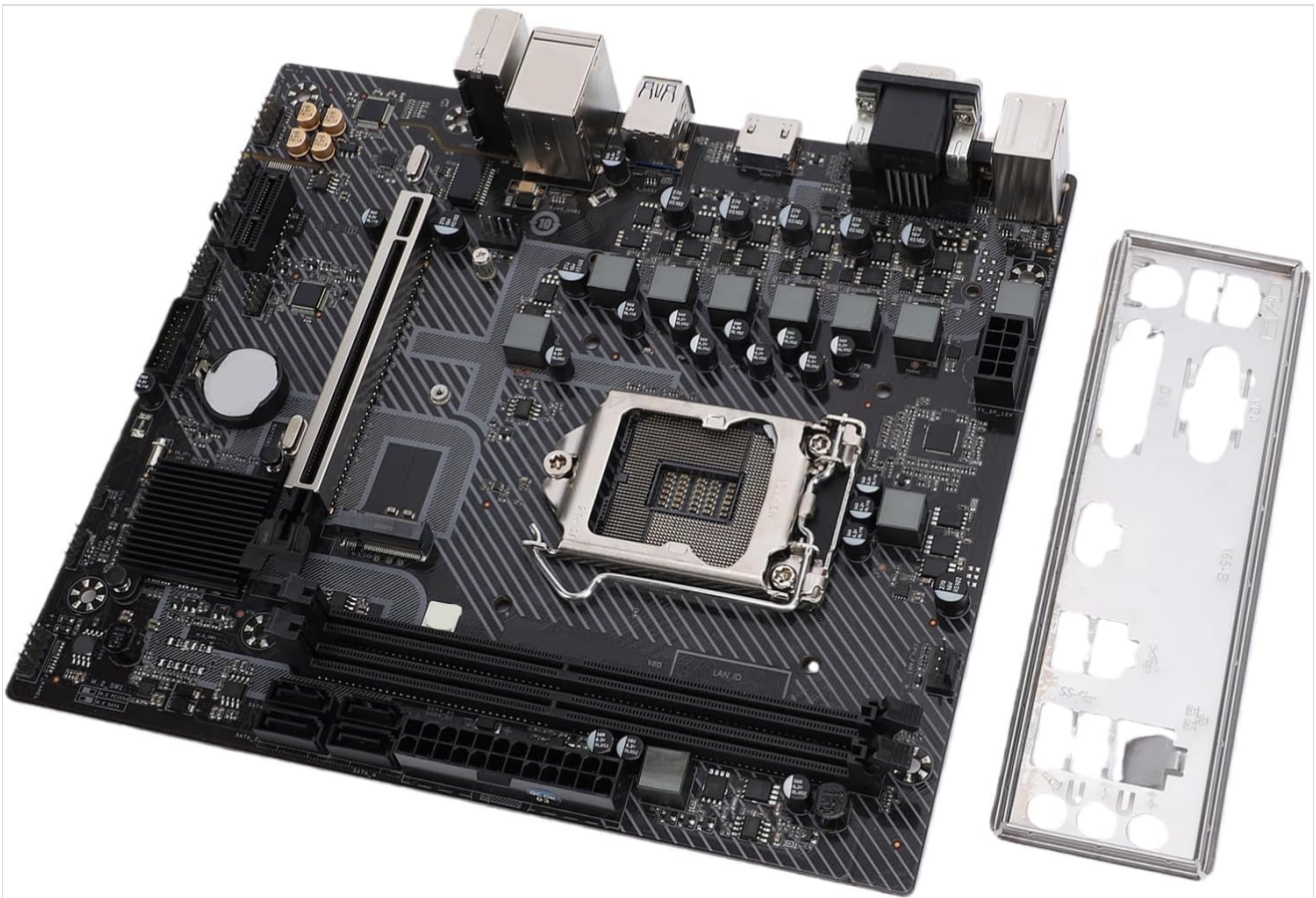


Figure 5.1: Motherboard and I/O Backplate

5.2. CPU Installation

1. Open the CPU socket lever and lift the load plate.
2. Carefully align the CPU with the socket, ensuring the triangular mark on the CPU matches the mark on the socket. Do not force the CPU into the socket.
3. Lower the load plate and secure it with the lever.

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

5.3. Memory (RAM) Installation

1. Open the clips at both ends of the DDR4 DIMM slots.
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.

5.4. Storage Device Installation

5.4.1. M.2 SSD Installation

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

5.4.2. SATA Device Installation

1. Connect one end of a SATA data cable to a SATA port 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 storage device.

5.5. Power Connections

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

5.6. Front Panel and Other Connections

Connect the front panel connectors (power button, reset button, HDD LED, power LED, USB ports, audio jacks) to their respective headers on the motherboard. Refer to the motherboard's silkscreen labels for correct orientation.



Figure 5.2: Motherboard with I/O Backplate Installed

6. OPERATING INSTRUCTIONS

6.1. Initial Boot-up

1. After all components are installed and connected, close your PC case.
2. Connect your monitor, keyboard, and mouse.
3. Connect the power supply to a wall outlet and turn on the power switch on the PSU.
4. Press the power button on your PC case.
5. The system should boot and display the BIOS/UEFI screen or prompt for OS installation.

6.2. BIOS/UEFI Configuration

During boot-up, press the designated key (usually DEL or F2) to enter the BIOS/UEFI setup. Here you can configure boot order, system time, and other advanced settings. Save changes before exiting.

6.3. Driver Installation

After installing your operating system, install the necessary drivers for the motherboard's chipset, audio, LAN, and any other integrated components. These drivers are typically provided on a support CD or can be downloaded from the manufacturer's website.

7. MAINTENANCE

Regular maintenance helps ensure the longevity and stable performance of your motherboard.

- **Cleaning:** Periodically clean dust from inside your PC case, especially from fans and heatsinks, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Check the manufacturer's website for BIOS/UEFI updates. Updates can improve compatibility, stability, and performance. Follow the update instructions carefully to avoid system damage.
- **Cable Management:** Ensure cables are neatly routed to improve airflow and prevent interference.

8. TROUBLESHOOTING

This section addresses common issues you might encounter.

8.1. No Power / No Boot

- Check all power connections (24-pin ATX, 8-pin CPU, GPU, storage).
- Ensure the power supply unit (PSU) is switched on and connected to a working power outlet.
- Verify front panel power button connection to the motherboard.
- Test the PSU with another system or a PSU tester if available.

8.2. No Display

- Ensure the monitor is connected to the correct video output (motherboard or dedicated graphics card).
- Check that the graphics card (if installed) is properly seated and has power.
- Reseat RAM modules. Try booting with one RAM stick at a time.
- Clear CMOS (refer to motherboard manual for jumper location or battery removal).

8.3. System Instability / Crashes

- Check CPU and GPU temperatures. Ensure coolers are properly installed.
- Run memory diagnostic tools to check for faulty RAM.
- Update drivers and BIOS to the latest versions.
- Verify power supply is sufficient for all components.

9. SPECIFICATIONS

Detailed technical specifications for the Acogedor B460M K PRO Motherboard:

Feature	Specification
Product Type	B460M-K PRO Motherboard
Chipset	Intel B460
CPU Socket	LGA 1200

Feature	Specification
Compatible CPU	10th Gen Intel Core (i9/i7/i5/i3), Pentium Gold, Celeron
Power Design	6-phase digital power, 8-pin + 24-pin power connector, all solid capacitors
Memory Slots	2 x DDR4 DIMM (Dual Channel)
Max Memory Capacity	64GB (32GB per stick)
Memory Frequency	Max DDR4 2933MHz (i5/i7/i9), 2666MHz (i3 and below), supports XMP
M.2 Slot	1 x M.2 2280 (PCIe 3.0 x4 + Serial ATA 6Gb/s, supports NVMe/Optane)
Serial ATA Ports	4 x Serial ATA 6Gb/s (SATA III)
RAID Support	Serial ATA 0/1/5/10
Battery Type	Cell battery, 240mAh (built-in)
Dimensions	Approx. 22 x 19.4 x 3.6 cm / 8.66 x 7.64 x 1.42 inches
Weight	Approx. 694g / 24.5 oz

10. WARRANTY AND SUPPORT

10.1. Warranty Information

This Acogedor B460M K PRO Motherboard comes with a **1-year warranty** from the date of purchase. The warranty covers defects in materials and workmanship under normal use. It does not cover damage caused by improper installation, accident, abuse, misuse, natural disaster, or unauthorized modification.

10.2. Technical Support

For technical assistance, troubleshooting, or warranty claims, please contact your retailer or visit the official Acogedor support website. Have your product model and purchase information ready when contacting support.

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