## ASRock B560M PRO4

# ASRock B560M PRO4 Motherboard User Manual

Model: B560M PRO4 | Brand: ASRock

## Introduction

This manual provides detailed instructions for the ASRock B560M PRO4 motherboard. It covers installation, operation, maintenance, and troubleshooting to ensure optimal performance and longevity of your system. The ASRock B560M PRO4 supports Intel 10th and 11th Generation Core processors with an LGA1200 socket, features an Intel B560 chipset, four DDR4 DIMM slots supporting up to 128GB, multiple PCIe slots including PCIe 4.0 x16, two M.2 slots, and six SATA 6Gb/s ports. It also includes Intel Gigabit LAN and Realtek ALC897 audio.




Image: ASRock B560M PRO4 Motherboard Overview. This image displays the main components of the motherboard, including the CPU socket, four DDR4 memory slots, PCIe expansion slots, and heatsinks for the VRM and M.2 storage.

## Setup and Installation

Follow these steps for proper installation of your ASRock B560M PRO4 motherboard and its components.

### 1. Unboxing and Inspection

- Carefully remove the motherboard from its packaging.
- Inspect the motherboard for any visible damage or missing components.
- Ensure all accessories listed in the product documentation are present.

### 2. CPU Installation

- Locate the LGA1200 CPU socket on the motherboard.
- Open the CPU socket lever and protective cover.
- Align the triangular mark on the CPU with the corresponding mark on the socket.
- Gently place the CPU into the socket without forcing it.

- Close the socket lever to secure the CPU.
- Apply thermal paste and install the CPU cooler according to its manufacturer's instructions.




Image: ASRock B560M PRO4 CPU Socket. This image highlights the LGA1200 CPU socket where the Intel processor is installed.

## 3. RAM (Memory) Installation

- Open the clips on both ends of the DDR4 DIMM slots.
- Align the notch on the RAM module with the key in the DIMM slot.
- Press down firmly on both ends of the RAM module until the clips snap into place.
- For dual-channel operation, refer to the motherboard manual for recommended slot configurations (e.g., A2/B2).

## 4. Storage Device Installation

- **M.2 SSDs:** Locate the M.2 slots. Remove the screw/standoff. Insert the M.2 SSD at an angle, then push it down and secure with the screw.
- **SATA Drives:** Connect SATA data cables from your SSDs/HDDs to the SATA 6Gb/s ports on the motherboard. Connect SATA power cables from your power supply to the drives.

## 5. Graphics Card (PCIe) Installation

- Open the retention clip on the PCIe 4.0 x16 slot.
- Align your graphics card with the slot and press down firmly until it is seated and the clip locks.
- Secure the graphics card to your PC case with screws.
- Connect any necessary PCIe power cables from your power supply to the graphics card.

### 6. Power Connections

- Connect the 24-pin ATX power connector from your power supply to the motherboard.
- Connect the 8-pin (or 4+4-pin) CPU power connector to the motherboard.
- Connect any fan headers (CPU fan, chassis fans) to the appropriate pins on the motherboard.

### 7. Front Panel Connections

- Connect the front panel headers (Power SW, Reset SW, HDD LED, Power LED) from your PC case to the corresponding pins on the motherboard. Refer to the motherboard manual for exact pin layout.
- Connect USB 2.0, USB 3.2 Gen1, and audio headers from your case to the motherboard.

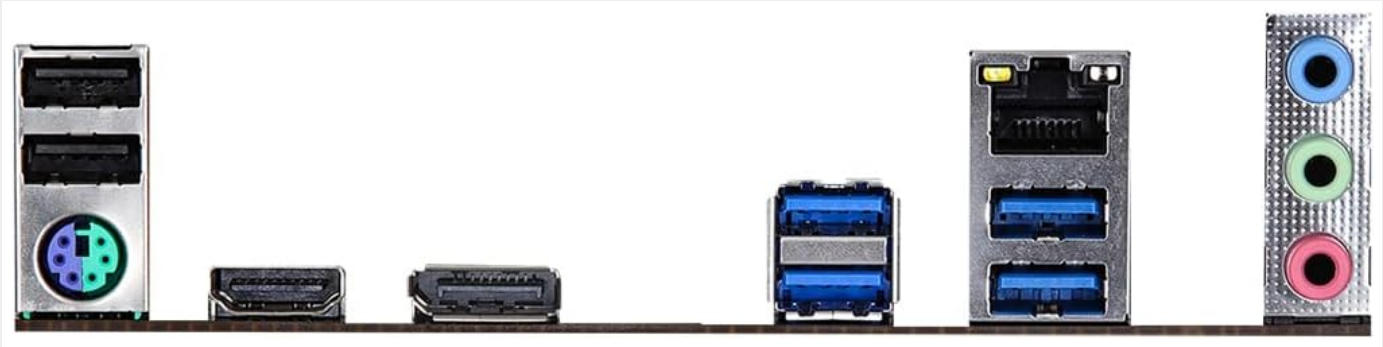

Image: ASRock B560M PRO4 Rear I/O Panel. This image illustrates the various input/output ports available on the back of the motherboard, including USB, LAN, audio, HDMI, and DisplayPort.

### 8. Mounting in PC Case

- Install the I/O shield into the case opening.
- Carefully place the motherboard into the case, aligning it with the standoffs.
- Secure the motherboard with screws.

## Operating Instructions

### 1. First Boot and BIOS/UEFI Setup

- After connecting all components and peripherals, power on your system.
- Press the **Delete** or **F2** key during startup to enter the BIOS/UEFI setup utility.
- Configure boot order, enable XMP for RAM, and set other system preferences as needed.
- Save changes and exit the BIOS/UEFI.

### 2. Operating System Installation

- Insert your operating system installation media (USB drive or DVD).
- Follow the on-screen prompts to install your preferred operating system.
- Install all necessary drivers from the ASRock support website or the provided driver CD/USB.

## Maintenance

### 1. Cleaning

- Regularly clean dust from the motherboard and components using compressed air.
- Ensure the system is powered off and unplugged before cleaning.
- Avoid using liquid cleaners directly on components.

### 2. BIOS/UEFI Updates

- Check the ASRock website for the latest BIOS/UEFI updates.
- Follow the specific instructions provided by ASRock for updating the BIOS/UEFI to avoid system instability.

## Troubleshooting

### 1. No Power / No Boot

- Verify all power cables (24-pin ATX, 8-pin CPU, GPU PCIe) are securely connected.
- Check the power supply unit (PSU) switch is in the "ON" position.
- Ensure the front panel power switch cable is correctly connected to the motherboard.
- Test the PSU with another system or a PSU tester if available.

### 2. No Display Output

- Ensure your monitor is connected to the graphics card (if dedicated) or the motherboard's integrated graphics port (if using an Intel CPU with integrated graphics).
- Reseat the graphics card and RAM modules.
- Try booting with only one RAM stick in the recommended slot.
- Check the monitor's input source.

### 3. System Instability / Crashes

- Ensure all drivers are up to date.
- Check CPU and GPU temperatures to prevent overheating.
- Run memory diagnostic tools to check for faulty RAM.
- Reset BIOS/UEFI settings to default.

## Specifications

| Feature | Detail |
| --- | --- |
| Brand | ASRock |
| Model Name | B560M PRO4 |
| CPU Socket | LGA 1200 |
| Compatible Processors | 10th Generation Intel Core, 11th Generation Intel Core |
| Chipset Type | Intel B560 |
| RAM Memory Technology | DDR4 |
| Memory Speed | 4800 MHz (Max) |
| Max RAM Capacity | 128GB (4 DIMM slots) |

| Feature | Detail |
|---|---|
| PCIe Slots | 1x PCIe 4.0 x16, 1x PCIe 3.0 x16, 1x PCIe 3.0 x1 |
| Storage | 2x M.2 Slots, 6x SATA 6Gb/s Ports |
| LAN | 1x Intel Gigabit LAN |
| Audio | Realtek ALC897 |
| USB Ports | 7x USB 3.2 Gen1, 6x USB 2.0 |
| Video Outputs | HDMI, DisplayPort |
| Item Weight | 2.2 pounds |
| Product Dimensions | 11 x 10.5 x 2.5 inches |

## Product Videos

### Product Overview Video

Your browser does not support the video tag.

Video: This official product overview video provides a visual guide to the key features and connectivity options of the ASRock B560M PRO4 motherboard, demonstrating its various ports and components.

## Warranty and Support

For detailed warranty information, technical support, and driver downloads, please visit the official ASRock website. Keep your proof of purchase for warranty claims.
*Note: The manufacturer's warranty typically covers defects in materials and workmanship under normal use. Specific terms and conditions may vary by region.*

© 2023 ASRock. 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