MSI B560M PRO WIFI

MSI B560M PRO WiFi ProSeries Motherboard User Manual

Model: B560M PRO WIFI

1. Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your MSI B560M PRO WiFi ProSeries Motherboard. Designed to deliver an efficient and productive experience, this motherboard features stable functionality and high-quality assembly, aiming to optimize professional workflows and minimize troubleshooting.



Figure 1.1: MSI B560M PRO WiFi Motherboard and Retail Packaging

This image displays the MSI B560M PRO WiFi motherboard alongside its retail packaging, highlighting the product's professional

presentation and design.

2. Key Features

The MSI B560M PRO WiFi motherboard is equipped with advanced features to enhance system performance and reliability:

- **Processor Support:** Supports 11th and 10th Gen Intel Core / Pentium / Celeron processors for LGA 1200 socket.
- **Memory Support:** Supports DDR4 Memory, up to 5200(OC) MHz for high-speed data processing.
- **Core Boost:** Features premium layout and digital power design to support more cores and provide better performance.
- **DDR4 Boost:** Advanced technology to deliver pure data signals for optimal performance and stability.
- **Lightning Fast Experience:** Includes PCIe 4.0 and Lightning Gen4 x4 M.2 with M.2 Shield Frozr for rapid data transfer and storage.

3. Setup and Installation

Before beginning installation, ensure your system is powered off and unplugged. Handle the motherboard by its edges to avoid static discharge.

3.1 Package Contents

Verify that all components are present in the package:

- MSI B560M PRO WiFi Motherboard
- Wi-Fi Antennas
- SATA Cables
- M.2 Screws
- User Manual (this document)



Figure 3.1: Motherboard and Included Accessories

This image illustrates the MSI B560M PRO WiFi motherboard along with its essential accessories, including Wi-Fi antennas, SATA cables, and M.2 screws, which are crucial for system assembly.

3.2 CPU Installation

Carefully open the LGA 1200 socket lever. Align the triangular mark on your Intel processor with the mark on the socket. Gently place the CPU into the socket without forcing it, then close the lever to secure it.

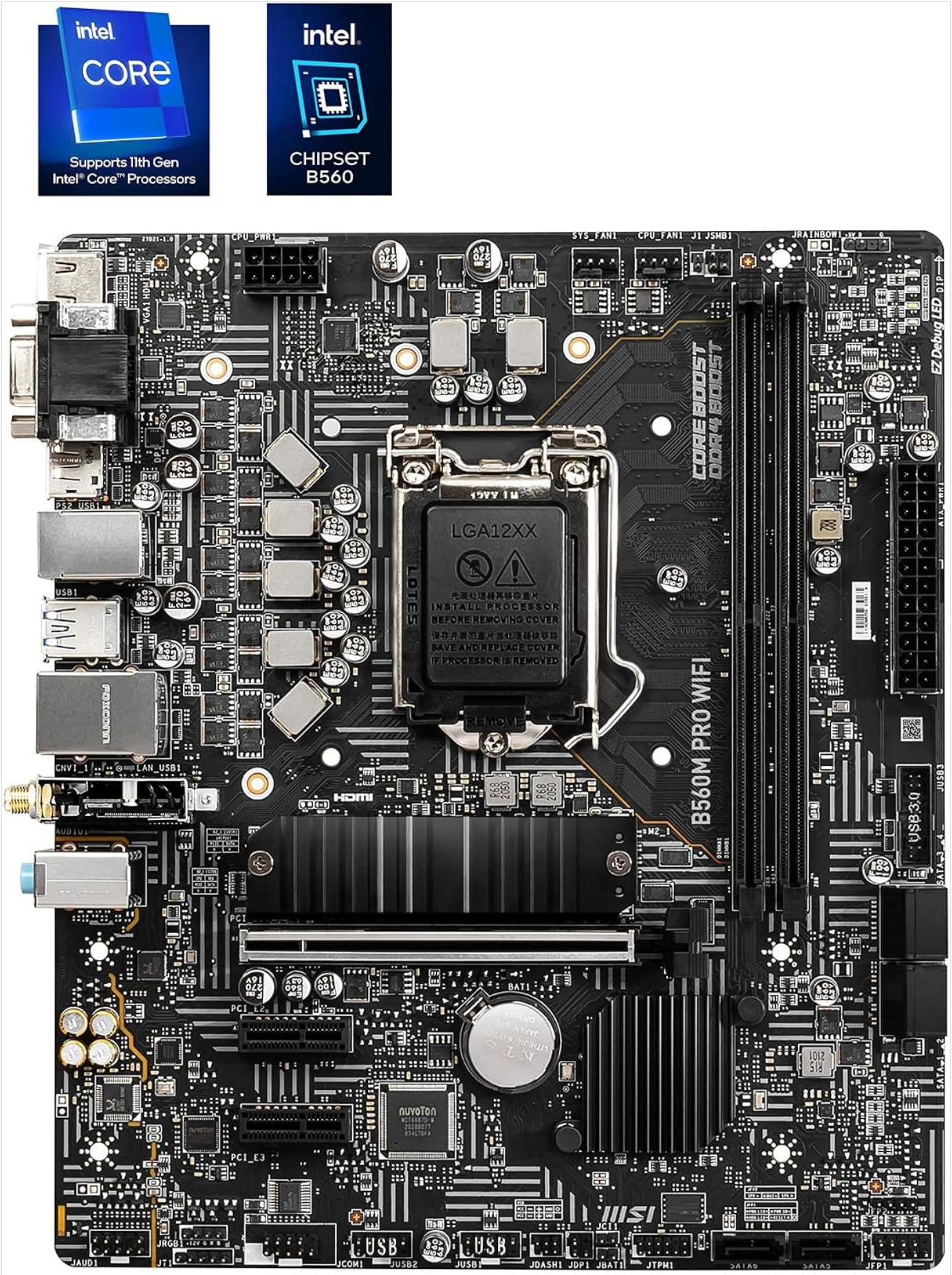


Figure 3.2: Top-Down View of Motherboard with LGA 1200 Socket

A clear top-down view of the MSI B560M PRO WiFi motherboard, prominently featuring the LGA 1200 CPU socket and surrounding components, indicating compatibility with 11th and 10th Gen Intel Core processors.

3.3 Memory (RAM) Installation

Open the clips on the DDR4 memory slots. Align the notch on the RAM module with the key in the slot. Press down firmly

on both ends of the module until the clips snap into place.

3.4 M.2 SSD Installation

Locate the M.2 slot. Insert the M.2 SSD at an angle and then gently push it down. Secure it with the provided M.2 screw. For optimal performance and thermal management, utilize the M.2 Shield Frozr if available.



Figure 3.3: Angled View Highlighting DDR4 Boost and PCIe 4.0

This angled perspective of the motherboard emphasizes the DDR4 memory slots and the PCIe 4.0 interface, showcasing features like DDR4 Boost and Lightning Gen4 for enhanced system speed and efficiency.

3.5 Connecting Peripherals and Power

Connect the 24-pin ATX power connector and the 8-pin CPU power connector from your power supply to the motherboard. Attach SATA drives, front panel connectors (USB, audio, power/reset buttons), and case fans. Install your graphics card into the PCIe slot if using a dedicated GPU.

4. Operating Instructions

After successful installation, power on your system. The motherboard will initiate the boot process.

4.1 BIOS/UEFI Setup

Press the 'Delete' key during startup to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, fan speeds, and other advanced settings. Refer to the MSI website for detailed BIOS/UEFI guides.

4.2 Driver Installation

After installing your operating system, install the necessary drivers for the motherboard's components, including chipset, audio, LAN, Wi-Fi, and Bluetooth. Drivers can be found on the MSI support website for your specific model.

4.3 Connectivity

The motherboard features a comprehensive rear I/O panel for various connections:

- **USB Ports:** Multiple USB 2.0 and USB 3.2 Gen1 ports for peripherals.
- **Network:** 2.5G LAN port for high-speed wired internet.
- **Wireless:** Integrated Wi-Fi 6 and Bluetooth for wireless connectivity.
- **Audio:** Audio Boost technology with multiple audio jacks for immersive sound.
- **Video Outputs:** DisplayPort and HDMI for integrated graphics output.

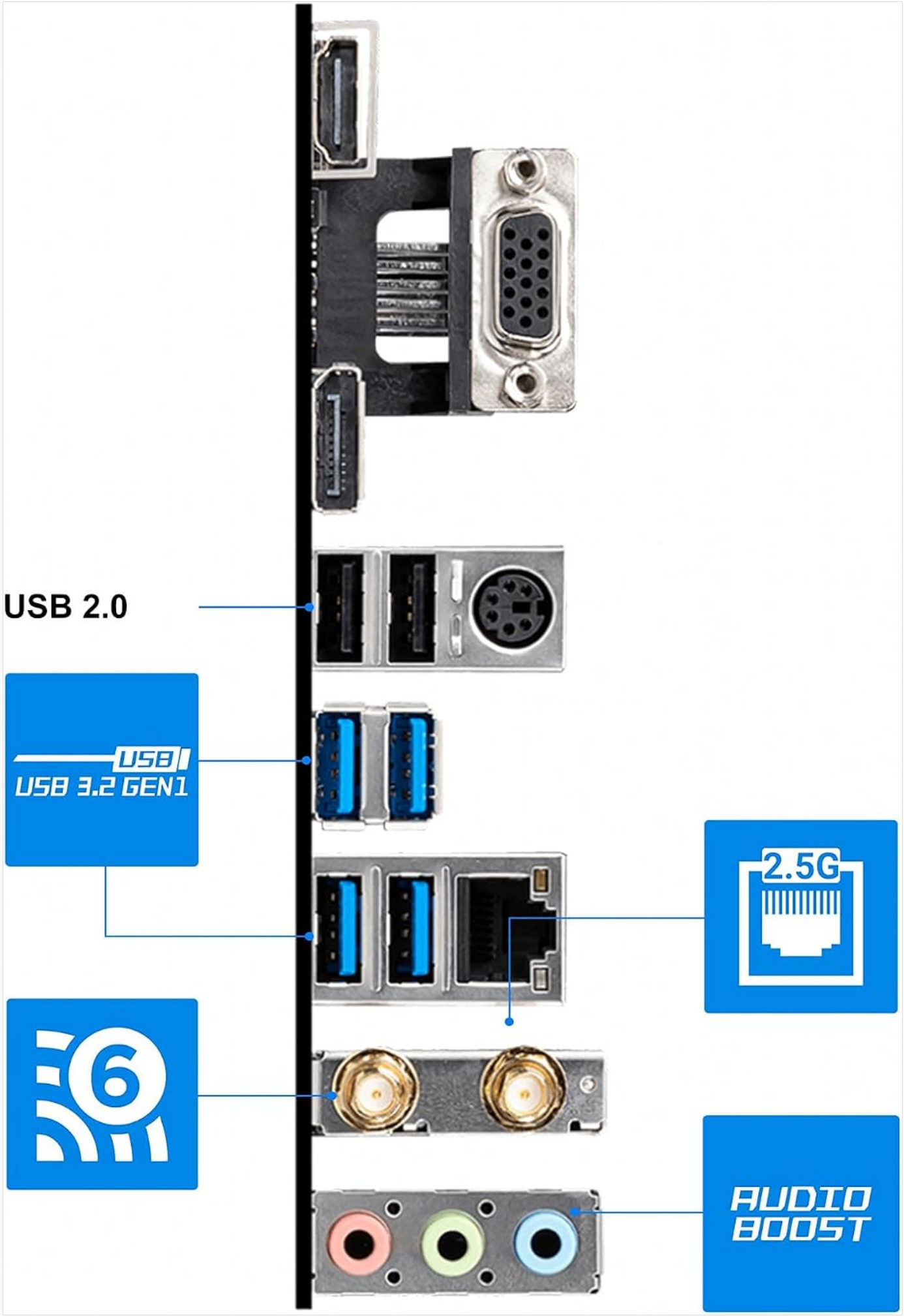


Figure 4.1: Rear I/O Panel Overview

This image provides a detailed view of the motherboard's rear input/output panel, labeling various ports including USB 2.0, USB 3.2 Gen1,

2.5G LAN, Wi-Fi 6 antenna connectors, and audio jacks, demonstrating its extensive connectivity options.

5. Maintenance

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

- **Dust Removal:** Periodically clean dust from the motherboard and case fans using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Driver Updates:** Keep your motherboard drivers updated to the latest versions available on the MSI support website to ensure compatibility and performance improvements.
- **BIOS/UEFI Updates:** Check the MSI website for BIOS/UEFI updates. Updates can improve stability, add new features, or enhance compatibility. Follow MSI's instructions carefully when updating the BIOS/UEFI.

6. Troubleshooting

If you encounter issues with your motherboard, consider the following common troubleshooting steps:

- **No Power/No Boot:**
  - Verify all power cables (24-pin ATX, 8-pin CPU) are securely connected to the motherboard and power supply.
  - Ensure the power supply is switched on and functioning correctly.
  - Check front panel power button connections to the motherboard.
- **No Display:**
  - Ensure the monitor is connected to the correct video output (either integrated graphics or dedicated GPU).
  - Reseat the graphics card and RAM modules.
  - Try booting with only one RAM stick.
- **Peripheral Issues:**
  - Ensure USB devices are properly connected.
  - Install the latest chipset and USB drivers.
  - For Wi-Fi/Bluetooth, ensure antennas are securely attached and drivers are installed.
- **System Instability/Crashes:**
  - Check CPU and GPU temperatures.
  - Run memory diagnostic tools to check for RAM errors.
  - Ensure all drivers are up to date.

For more complex issues, consult the MSI support website or contact MSI technical support directly.

7. Specifications

Detailed technical specifications for the MSI B560M PRO WiFi Motherboard:

Category	Specification
Brand	MSI
Model Name	PRO
Item Model Number	B560M PRO WIFI

Category	Specification
CPU Socket	LGA 1200
Compatible Processors	11th/10th Gen Intel Core / Pentium / Celeron
Chipset Type	Intel B560
RAM Memory Technology	DDR4
Memory Clock Speed	Up to 5200 MHz (OC)
Wireless Type	Bluetooth, Wi-Fi 6
LAN	2.5G LAN
PCIe Version	PCIe 4.0
M.2 Slots	Lightning Gen4 x4 M.2 with M.2 Shield Frozr
USB Ports	USB 3.2 Gen1, USB 2.0
Product Dimensions	9.3 x 8 x 2.5 inches
Item Weight	1.76 pounds
Platform	Windows 10

8. Warranty and Support

For detailed warranty information, technical support, driver downloads, and BIOS/UEFI updates, please visit the official MSI website. MSI provides comprehensive support resources for its products.

MSI Official Website: www.msi.com

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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.

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