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MSI PRO B760-P WiFi ProSeries

MSI PRO B760-P WiFi ProSeries Motherboard User Manual

Model: PRO B760-P WiFi ProSeries

1. Introduction

This manual provides comprehensive instructions for the installation, configuration, and maintenance of your MSI PRO B760-P WiFi ProSeries Motherboard. It is designed to assist users in setting up their system correctly and efficiently. Please read this document thoroughly before beginning any installation procedures to ensure proper operation and to prevent potential damage.

2. Product Overview

The MSI PRO B760-P WiFi ProSeries Motherboard is an ATX form factor board designed to support 12th and 13th Generation Intel Processors. It features the LGA 1700 socket, DDR5 memory support, PCIe 4.0 expansion slots, multiple M.2 slots for high-speed storage, 2.5Gbps LAN, USB 3.2 Gen2 connectivity, and integrated Wi-Fi 6E for robust network performance.

2.1 Motherboard Layout

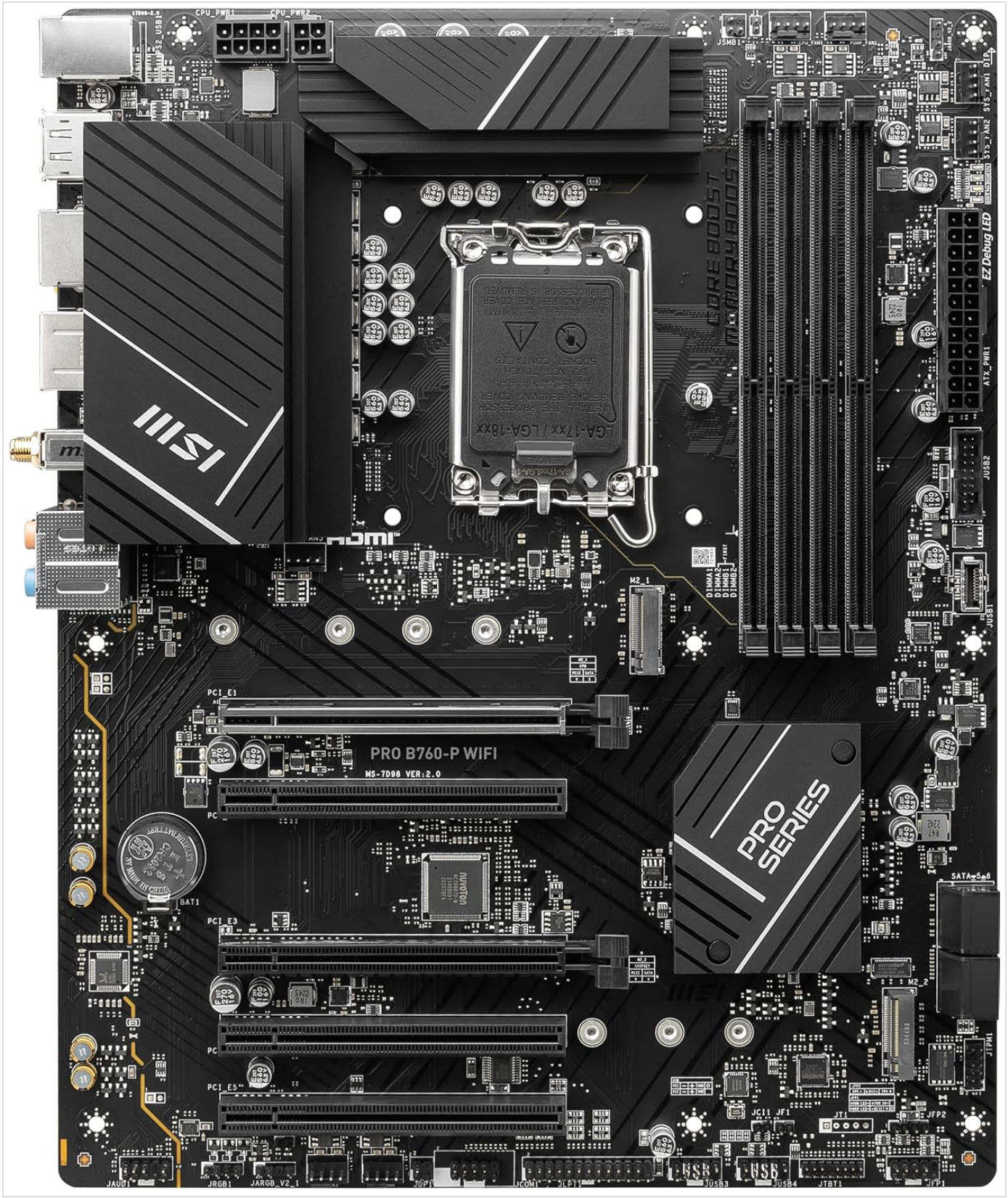


Image 2.1.1: Top-down view of the MSI PRO B760-P WiFi ProSeries Motherboard, highlighting the CPU socket, DIMM slots, PCIe slots, and various headers.



Image 2.1.2: Angled view of the motherboard, showing the VRM heatsinks, CPU socket, and memory slots.

2.2 Rear I/O Panel



Image 2.2.1: Detailed view of the rear I/O panel, displaying various ports including USB, LAN, audio jacks, and Wi-Fi antenna connectors.

3. Package Contents

Verify that all items listed below are present in your motherboard package. If any item is missing or damaged, contact your retailer.

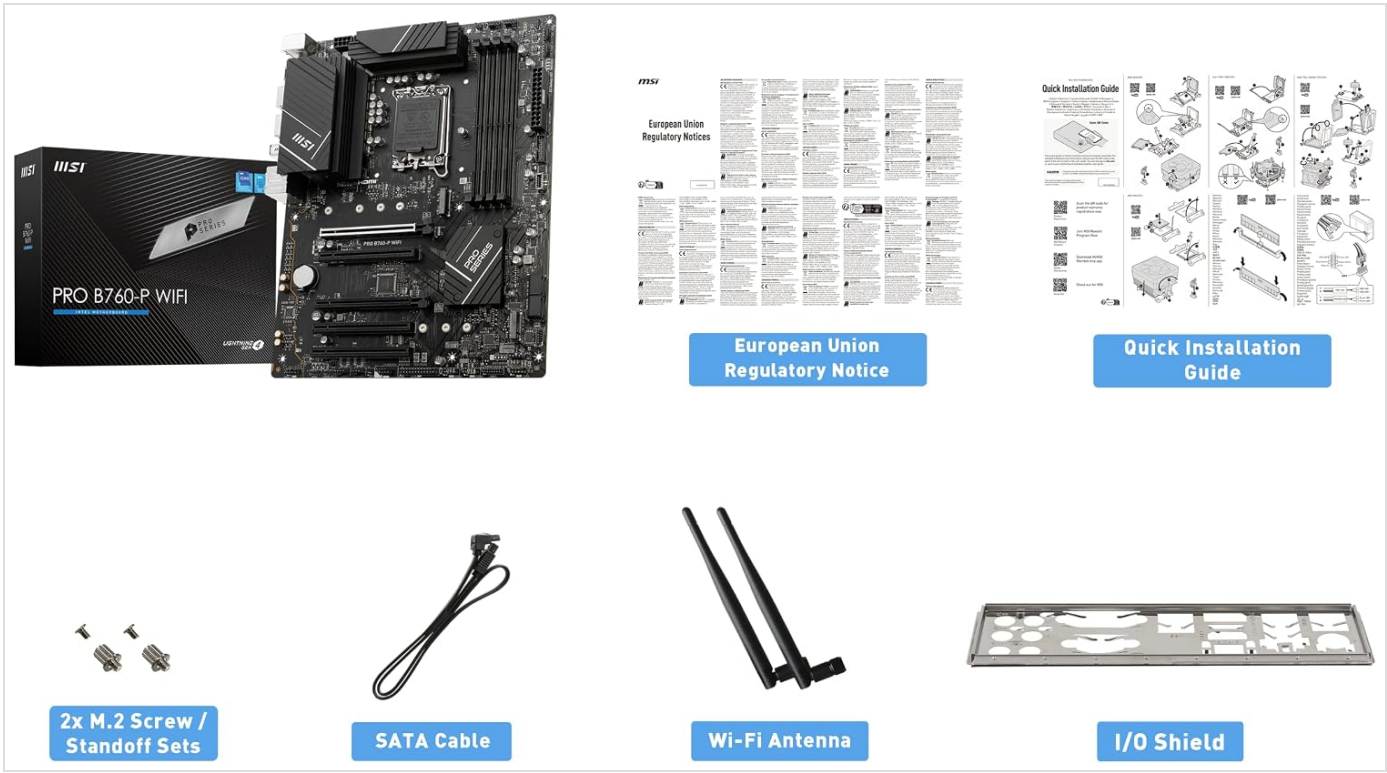


Image 3.1.1: Overview of the motherboard package contents, including the motherboard, manuals, cables, and accessories.

- MSI PRO B760-P WiFi ProSeries Motherboard
- Quick Installation Guide
- European Union Regulatory Notice
- 2x M.2 Screw / Standoff Sets
- SATA Cable
- Wi-Fi Antenna
- I/O Shield

4. Setup and Installation

Before installing any components, ensure your system is powered off and disconnected from the power outlet. Always handle components with care and consider using an anti-static wrist strap to prevent electrostatic discharge (ESD) damage.

4.1 CPU Installation (LGA 1700)

1. Locate the LGA 1700 CPU socket on the motherboard.

2. Gently push down the load lever and pull it to the side to open the CPU socket retention frame.
3. Align the triangular mark on the CPU with the corresponding mark on the socket. Carefully place the CPU into the socket without forcing it.
4. Close the retention frame and push the load lever back into its locked position.

4.2 Memory (RAM) Installation

1. Open the clips on both ends of the DDR5 DIMM slots.
2. Align the notch on the DDR5 memory module with the key in the DIMM slot.
3. Insert the memory module firmly into the slot until the clips snap into place. Ensure both clips are closed.

4.3 Storage Installation (M.2 SSDs and SATA Drives)

4.3.1 M.2 SSD Installation

1. Locate the M.2 slots on the motherboard. Some slots may have heatsinks that need to be removed first.
2. Insert the M.2 SSD into the slot at a slight angle.
3. Gently push down the M.2 SSD and secure it with the provided M.2 screw/standoff set.

4.3.2 SATA Drive Installation

1. Connect one end of the 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 unit (PSU) to the SATA drive.

4.4 Expansion Card Installation (PCIe)

1. Locate the appropriate PCIe slot for your expansion card (e.g., graphics card).
2. Remove the corresponding expansion slot cover from your PC case.
3. Align the expansion card with the PCIe slot and press down firmly until it is seated correctly.
4. Secure the card to the case with a screw.

4.5 Power Connections

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

4.6 Front Panel Connections

Connect the cables from your PC case's front panel (USB, audio, power button, reset button, LED indicators) to the corresponding headers on the motherboard. Refer to the motherboard diagram in the Quick Installation Guide for exact header locations.

4.7 Wi-Fi Antenna Installation

Screw the included Wi-Fi antenna onto the two antenna connectors located on the rear I/O panel. Ensure they are securely tightened for optimal wireless signal reception.

5. Operating Your System

5.1 BIOS/UEFI Setup

To access the BIOS/UEFI setup utility, power on your computer and repeatedly press the `Del` key during the boot process. The BIOS/UEFI allows you to configure system settings, boot order, and monitor hardware status.

5.2 Driver Installation

After installing your operating system, it is crucial to install the latest drivers for your motherboard components. These drivers can be found on the official MSI website for your specific motherboard model. Installing drivers ensures optimal performance and stability for your system's hardware, including chipset, LAN, audio, and Wi-Fi.

5.3 Software Utilities

MSI provides various software utilities to enhance your user experience, such as system monitoring tools, fan control, and RGB lighting customization. These utilities are available for download from the MSI support website.

6. Maintenance

6.1 Cleaning

Regularly clean your computer's interior to prevent dust buildup, which can lead to overheating and reduced performance. Use compressed air to remove dust from heatsinks, fans, and other components. Ensure the system is powered off and unplugged before cleaning.

6.2 BIOS Updates

Periodically check the MSI website for BIOS updates. BIOS updates can improve system stability, add support for new hardware, and fix bugs. Follow the instructions provided by MSI carefully when performing a BIOS update to avoid system damage.

7. Troubleshooting

- **No Power:** Ensure all power cables (24-pin ATX, 8-pin CPU) are securely connected to the motherboard and PSU. Verify the PSU is switched on and connected to a working power outlet.
- **No Display:** Check that your monitor is connected to the graphics card (or integrated graphics port if applicable) and powered on. Reseat the graphics card and RAM modules.
- **System Instability/Crashes:** This can be caused by overheating, faulty RAM, or an unstable power supply. Monitor CPU and GPU temperatures. Test RAM modules individually. Ensure your PSU meets the power requirements of your components.
- **Boot Issues:** Verify the boot order in BIOS/UEFI. Ensure your operating system drive is properly connected and detected. If a new component was installed, try removing it to isolate the issue.
- **BIOS Update Failure:** If a BIOS update fails, refer to the motherboard's specific BIOS recovery procedures, often involving a feature like BIOS Flashback (if available) or contacting MSI support.

8. Specifications

Feature	Specification
Brand	MSI
Model Name	PRO B760-P WiFi ProSeries
CPU Socket	LGA 1700
Compatible Processors	12th/13th Gen Intel Processors
RAM Memory Technology	DDR5
RAM Memory Maximum Size	64 GB

Feature	Specification
Chipset Type	Intel B760 (or Intel B660/H610/Z690 as per general B760 series compatibility)
Main Power Connector Type	ATX
Product Dimensions	12 x 9.6 x 2.5 inches
Item Weight	1.2 pounds
Manufacturer	MSI
Compatible Devices	Personal Computer

9. Warranty and Support

For detailed warranty information, technical support, and driver downloads, please visit the official MSI website. You can find product registration, FAQs, and contact information for customer service there.
Official MSI Support Website: www.msi.com/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.

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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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