MSI PRO B760-P WiFi ProSeries

MSI PRO B760-P WiFi ProSeries Motherboard User Manual

Model: PRO B760-P WiFi ProSeries | Brand: MSI

1. Product Overview

The MSI PRO B760-P WiFi ProSeries Motherboard is designed for professionals seeking impressive performance and high quality. It supports 12th and 13th Gen Intel Processors with an LGA 1700 socket, DDR5 memory, PCIe 4.0, M.2 storage, 2.5Gbps LAN, USB 3.2 Gen2, and Wi-Fi 6E connectivity. This motherboard is engineered to assist users with multitasking and increasing efficiency, making it a reliable choice for productivity-focused systems.



Figure 1.1: The MSI PRO B760-P WiFi ProSeries Motherboard alongside its retail packaging, showcasing the product's design and branding.

2. Setup and Installation

2.1 Before You Begin

Before installing your motherboard, ensure you have a clean, static-free workspace. Always disconnect the power supply from the wall outlet before handling any components. It is recommended to wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to sensitive components.

2.2 Component Identification

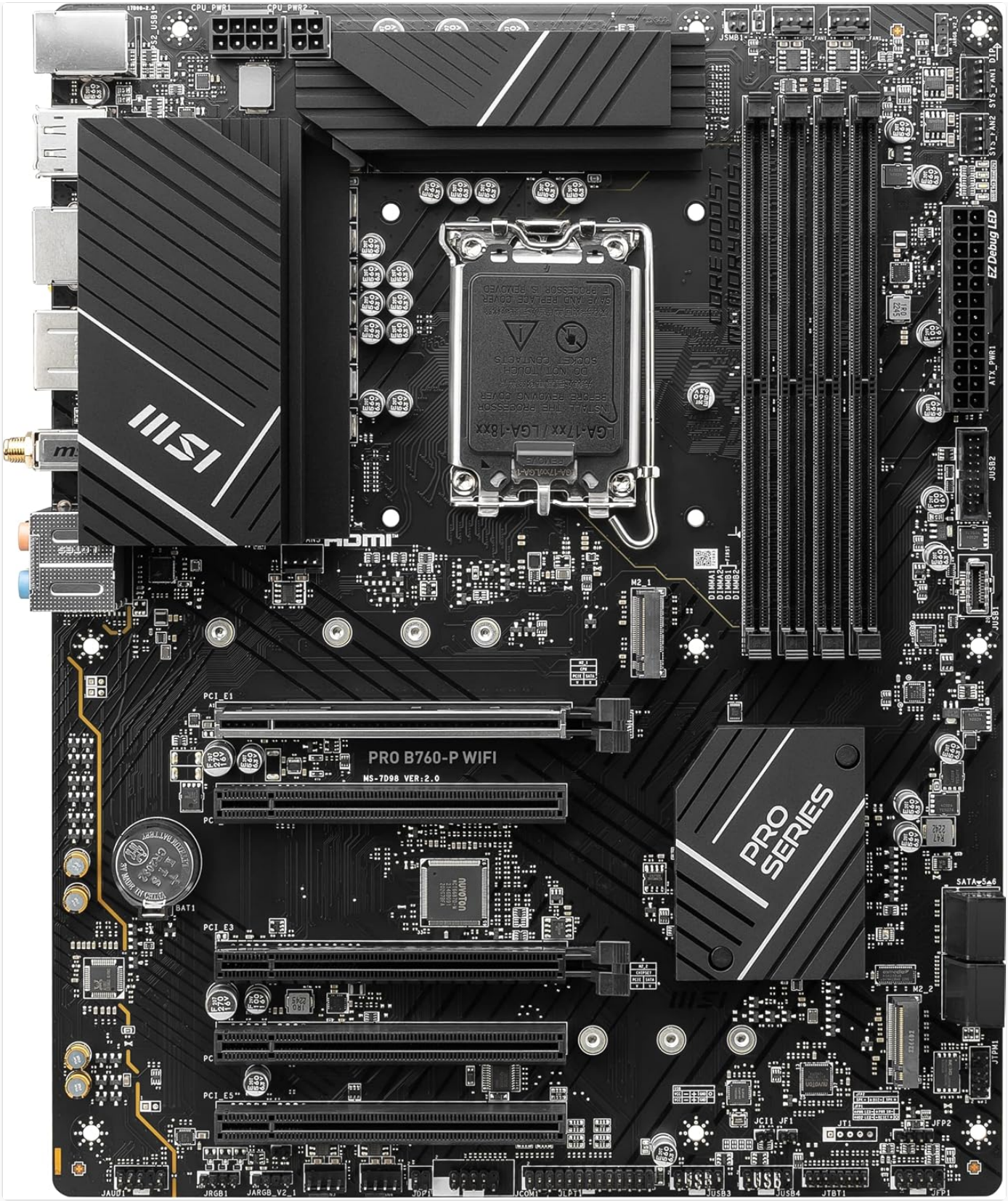


Figure 2.1: A top-down view of the MSI PRO B760-P WiFi motherboard, illustrating the layout of the LGA 1700 CPU socket, four DDR5 DIMM slots, multiple PCIe slots, and M.2 slots.

2.3 Step-by-Step Installation

1. **CPU Installation:** Carefully open the LGA 1700 socket lever. Align the triangular mark on your 12th or 13th Gen Intel processor with the mark on the socket. Gently place the CPU into the socket without forcing it. Close the lever to secure the CPU.
2. **CPU Cooler Installation:** Install your compatible CPU cooler according to its manufacturer's instructions. Ensure proper thermal paste application and secure mounting.

3. **RAM (DDR5) Installation:** Open the clips on both ends of the DDR5 DIMM slots. Align the notch on the DDR5 memory module with the key in the slot. Press down firmly on both ends until the clips snap into place.
4. **M.2 SSD Installation:** Locate the M.2 slots. Insert your M.2 SSD at a slight angle into the slot. Push it down and secure it with the provided M.2 screw or standoff set.
5. **PCIe Card Installation:** Insert your graphics card or other PCIe expansion cards into the appropriate PCIe slots. Ensure they are fully seated and secured with the case's retention mechanism.
6. **Power Supply Connections:** Connect the 24-pin ATX main power connector and the 8-pin (or 4+4-pin) CPU power connector from your power supply to the motherboard.
7. **Front Panel Connections:** Connect the power button, reset button, HDD LED, power LED, and USB/audio headers from your PC case to the corresponding pins on the motherboard. Refer to the motherboard's manual for exact pin layouts.
8. **I/O Shield Installation:** If your case does not have an integrated I/O shield, install the included I/O shield into the rear opening of your PC case before mounting the motherboard.
9. **Motherboard Mounting:** Carefully place the motherboard into your PC case, aligning it with the standoffs. Secure the motherboard with screws.
10. **SATA Device Connections:** Connect your SATA storage devices (HDDs/SSDs) to the SATA ports on the motherboard using the provided SATA cables.

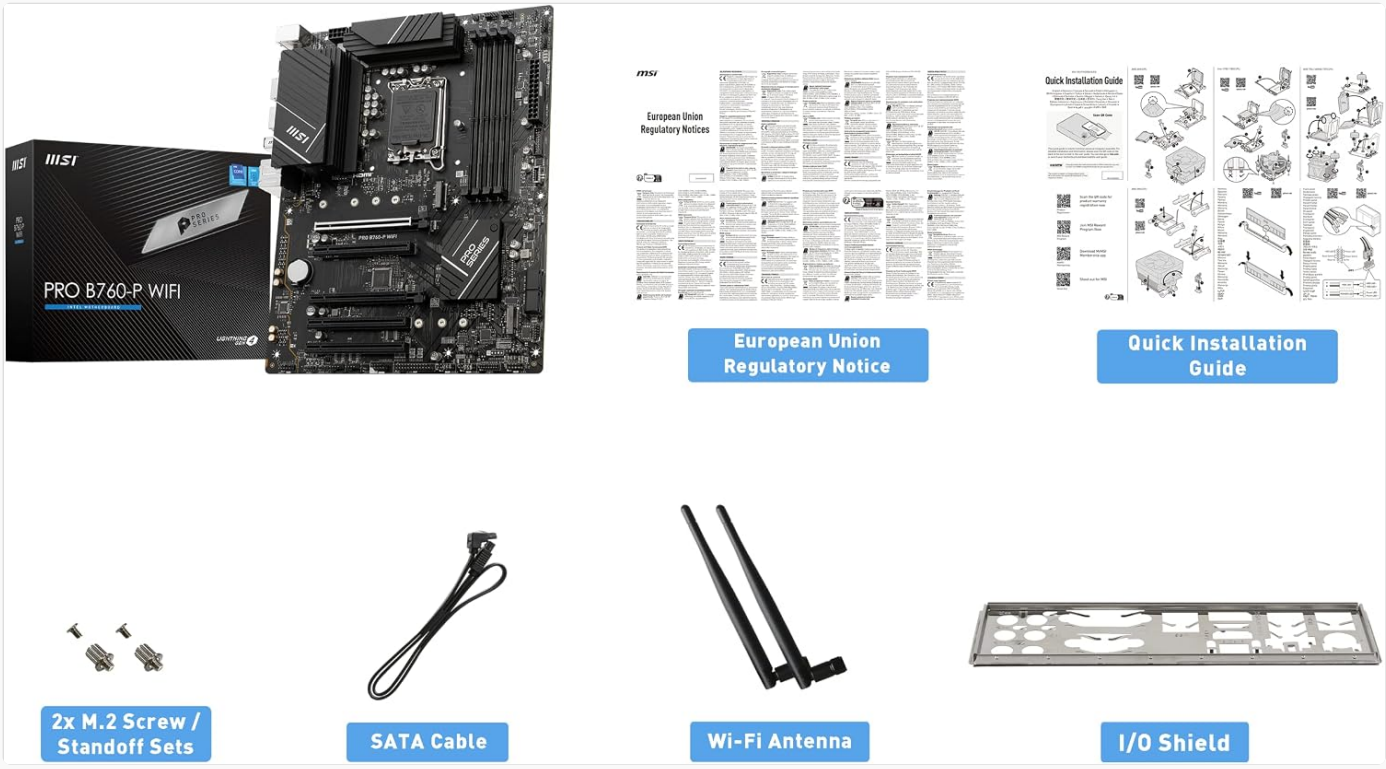


Figure 2.2: Essential accessories included with the motherboard, such as M.2 screws/standoff sets, SATA cables, Wi-Fi antennas, and the I/O shield, crucial for a complete system build.

3. Operating Your System

3.1 Initial Boot-up and BIOS/UEFI Setup

After assembly, connect your monitor, keyboard, and mouse. Power on your system. During the initial boot sequence, press the **DEL** key (or F2, depending on BIOS settings) repeatedly to enter the BIOS/UEFI setup utility. Here, you can configure boot order, enable XMP for memory, adjust fan curves, and perform other system optimizations.

3.2 Driver Installation

For optimal performance and stability, install the latest drivers for your motherboard. These typically include chipset drivers, LAN drivers, Wi-Fi drivers, and audio drivers. You can find these on the MSI official website by searching for your specific motherboard model.

3.3 Software Utilities

MSI provides various software utilities to enhance your user experience, such as MSI Center for system monitoring and optimization, and Dragon Center (older versions) for performance tuning. Download and install these from the MSI website as needed.

4. Technical 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
Chipset Type	Intel B760
Main Power Connector Type	ATX
PCIe Support	PCIe 4.0
LAN	2.5Gbps LAN
Wireless Connectivity	Wi-Fi 6E
USB Support	USB 3.2 Gen2
Product Dimensions	12 x 9.6 x 2.5 inches
Item Weight	1.2 pounds

5. Maintenance and Care

Proper maintenance ensures the longevity and optimal performance of your motherboard.

- **Dust Removal:** Regularly clean dust from inside your PC case, especially from heatsinks and fans, using compressed air. Dust accumulation can lead to overheating.
- **Airflow:** Ensure your PC case has adequate airflow. Proper fan configuration helps dissipate heat efficiently from the motherboard and other components.
- **BIOS/UEFI Updates:** Periodically check the MSI website for BIOS/UEFI updates. These updates can improve stability, add support for new hardware, or fix bugs. Follow MSI's instructions carefully when updating the BIOS.

- **Driver Updates:** Keep your system drivers (chipset, LAN, Wi-Fi, audio) updated to the latest versions available from the MSI support page.

6. Troubleshooting Common Issues

This section provides solutions for common problems you might encounter.

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 switch is in the 'ON' position.
- Check front panel connections (power button header) on the motherboard.
- Reseat RAM modules and the CPU to ensure they are properly seated.

No Display Output

- Ensure your monitor is connected to the correct display output (either integrated graphics on the motherboard or your dedicated graphics card).
- Reseat your graphics card in its PCIe slot.
- Try a different display cable or monitor.
- If your CPU has integrated graphics, try removing the dedicated GPU and connecting to the motherboard's display output.

System Instability / Crashes

- Monitor CPU and GPU temperatures using monitoring software. Overheating can cause instability.
- Run a memory diagnostic tool to check for faulty RAM.
- Ensure all drivers are up to date.
- Reset BIOS settings to default.

Network Connectivity Issues (LAN/Wi-Fi)

- For LAN: Check the Ethernet cable connection to both the motherboard and router/modem. Ensure LAN drivers are installed.
- For Wi-Fi: Ensure the Wi-Fi antennas are securely connected to the motherboard's rear I/O panel. Install the latest Wi-Fi drivers.
- Check network adapter settings in your operating system.



Figure 6.1: A close-up view of the motherboard's rear I/O ports, including various USB ports, Ethernet port, Wi-Fi antenna connectors, and audio jacks, which are critical for troubleshooting connectivity issues.

7. Customer Support and Warranty

For further assistance, technical support, or warranty inquiries, please visit the official MSI support website. You can find drivers, FAQs, and contact information for your region there.

MSI Support Website: www.msi.com/support

This product is covered by a manufacturer's warranty. Please refer to the warranty card included with your product or the MSI website for detailed terms and conditions regarding warranty coverage and service procedures.

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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

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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