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## MSI B760M PROJECT ZERO

# MSI B760M Project Zero Gaming Motherboard User Manual

Brand: MSI | Model: B760M PROJECT ZERO

## 1. Product Overview

The MSI B760M Project Zero Gaming Motherboard is designed for high-performance computing, supporting Intel 14th, 13th, and 12th Generation Processors. Its innovative back-connect design simplifies cable management, contributing to a cleaner system build. This motherboard features DDR5 memory support, PCIe 5.0, multiple M.2 slots, 2.5Gbps LAN, Wi-Fi 6E, and Bluetooth 5.3, making it a robust foundation for gaming and professional use.




*Image: The MSI B760M Project Zero Gaming Motherboard shown alongside its retail packaging, highlighting its sleek design and key features.*

## 2. Unboxing and Package Contents

Upon opening the package, ensure all components are present and undamaged. The MSI B760M Project Zero Gaming Motherboard comes with essential accessories to facilitate installation and setup.

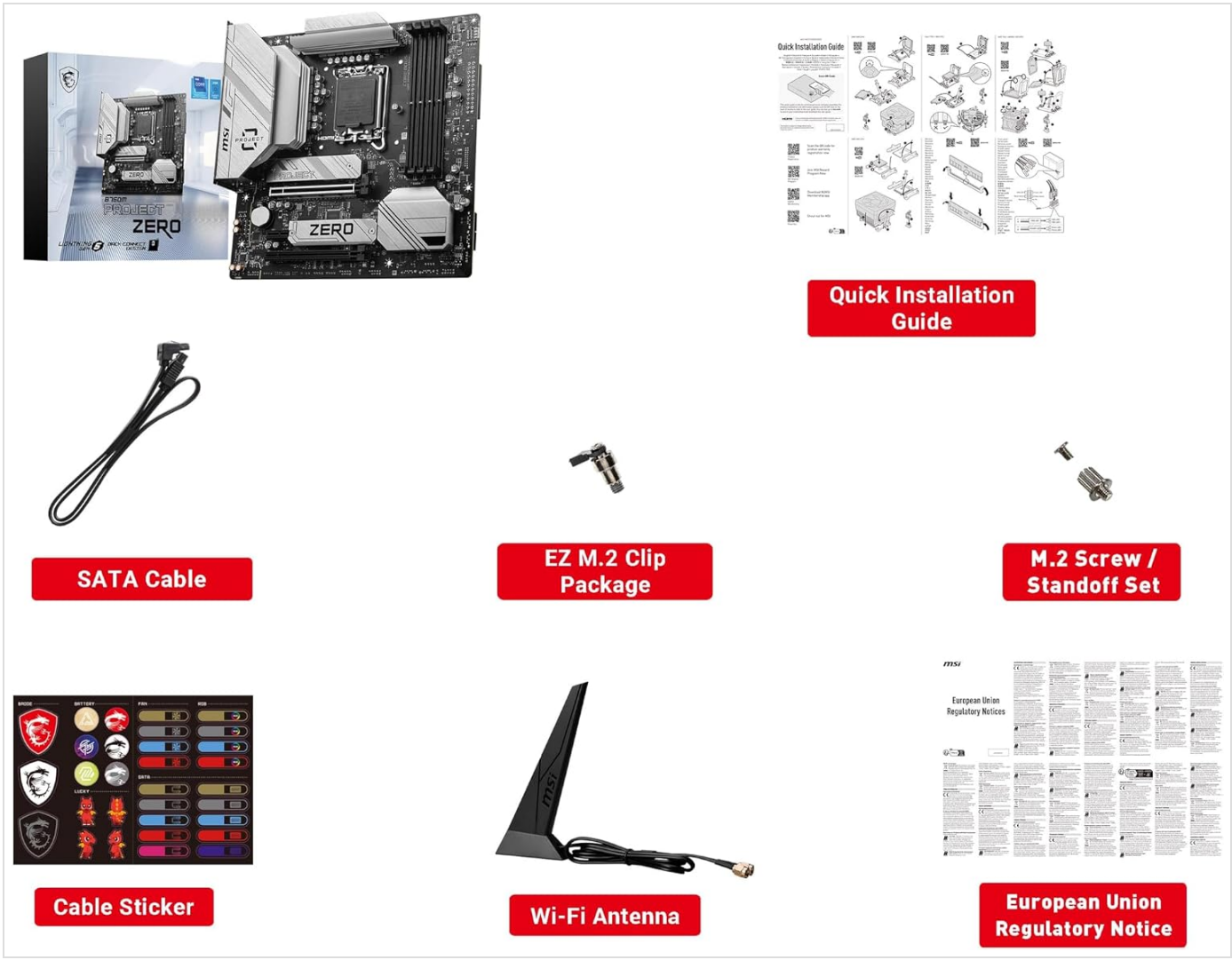



*Image: A visual representation of the accessories included with the motherboard, such as SATA cables, M.2 screws/standoffs, Wi-Fi antenna, and documentation.*

### Package Contents:

- MSI B760M Project Zero Gaming Motherboard
- Quick Installation Guide
- SATA Cables
- M.2 Screw / Standoff Set
- Wi-Fi Antenna
- Cable Stickers
- European Union Regulatory Notices

## 3. Key Features

The MSI B760M Project Zero Gaming Motherboard is equipped with advanced features for optimal performance and user convenience:

- Support Intel Core 14th/13th/12th Gen Processors, Intel Pentium Gold and Celeron Processors for LGA 1700 socket
- Supports DDR5 Memory, up to 7800+(OC) MHz

- Enhanced Power Design: 12+1+1 Duet Rail Power System, dual 8-pin CPU power connectors, Core Boost, Memory Boost
- Lightning Fast Game experience: PCIe 5.0 slot, Lightning Gen 4 x4 M.2, USB 3.2 Gen 2x2
- High Quality PCB: 6-layer PCB made by 2oz thickened copper and server grade level material

## 4. Specifications

Detailed technical specifications for the MSI B760M Project Zero Gaming Motherboard:

| Feature | Specification |
|---|---|
| Processor Support | Intel Core 14th/13th/12th Gen Processors, Intel Pentium Gold and Celeron Processors |
| CPU Socket | LGA 1700 |
| Chipset | Intel B760 |
| Memory Type | DDR5 |
| Memory Speed | Up to 7800+(OC) MHz |
| Expansion Slots | PCIe 5.0, PCIe 4.0 x16, PCIe 3.0 x1 |
| Storage | M.2 Gen 4 x4 64Gbps slots, SATA 6Gbps ports |
| USB Ports | USB 3.2 Gen 2x2, USB 3.2 Gen 2, USB 3.2 Gen 1, USB 2.0 |
| LAN | 2.5Gbps LAN |
| Wireless Connectivity | Wi-Fi 6E, Bluetooth 5.3 |
| Audio | 8-Channel (7.1) HD Audio with Audio Boost |
| Form Factor | mATX |
| Dimensions | 11.5 x 11.25 x 3.03 inches |
| Item Weight | 3 pounds |

## 5. Setup and Installation

Proper installation is crucial for the stability and performance of your system. Always handle the motherboard by its edges and avoid touching sensitive components. It is recommended to wear an anti-static wrist strap during installation.

### 5.1. Preparation

- Ensure your power supply unit (PSU) is compatible and provides sufficient wattage.
- Prepare your PC case, ensuring it supports the mATX form factor and has adequate space for components.
- Gather necessary tools: Phillips head screwdriver, zip ties for cable management.

### 5.2. CPU Installation (LGA 1700)

Carefully open the CPU socket retention arm. Align the triangular mark on your Intel LGA 1700 processor with the mark on the socket. Gently place the CPU into the socket without forcing it. Close the retention arm to secure the CPU.




*Image: A top-down view of the motherboard, clearly showing the LGA 1700 CPU socket in the center, surrounded by the DDR5 memory slots.*

## 5.3. RAM Installation (DDR5)

Open the clips on both ends of the DDR5 DIMM slots. Align the notch on your DDR5 memory module with the key in the DIMM slot. Press down firmly on both ends of the memory module until the clips snap into place, securing the RAM.

## 5.4. M.2 SSD Installation

Locate the M.2 slots on the motherboard. Remove the M.2 heatsink if present. Insert your M.2 SSD into the slot at an angle, then gently push it down and secure it with the provided M.2 screw or EZ M.2 Clip. Reattach the heatsink if applicable.

## 5.5. Graphics Card Installation

Open the retention clip on the PCIe 5.0 x16 slot. Align your graphics card with the slot and press down firmly until it clicks into place. Secure the card to your PC case with screws.

## 5.6. Connecting Power Cables

Connect the 24-pin ATX main power connector and the dual 8-pin CPU power connectors from your PSU to the corresponding ports on the motherboard. Ensure all connections are firm.

## 5.7. Connecting Front Panel Headers

Connect the front panel cables (power button, reset button, HDD LED, power LED, USB, audio) from your PC case to the appropriate headers on the motherboard. Refer to the motherboard manual for exact pin configurations.

## 5.8. Connecting SATA Devices

Connect your SATA storage devices (HDDs, SSDs) to the SATA ports on the motherboard using the provided SATA cables. Ensure power cables from the PSU are also connected to these devices.

## 5.9. Mounting in Case

Carefully place the motherboard into your PC case, aligning the standoffs with the screw holes. Secure the motherboard with screws. Ensure the I/O shield is properly seated in the case opening.




*Image: A detailed view of the rear input/output (I/O) panel of the motherboard, showing various ports for connectivity including USB, HDMI, DisplayPort, LAN, and audio jacks.*

## 6. Operating Instructions

Once all hardware components are installed and connected, you can proceed with operating your system.

### 6.1. Initial Boot and BIOS/UEFI Setup

- Connect your monitor, keyboard, and mouse to the appropriate I/O ports.
- Power on your system. Press the designated key (usually DEL or F2) repeatedly during startup to enter the

BIOS/UEFI setup utility.

- Configure boot order, enable XMP/EXPO for memory, and adjust other settings as needed. Save changes and exit.

### 6.2. Operating System Installation

Insert your operating system installation media (USB drive or DVD) and follow the on-screen prompts to install your preferred OS (e.g., Windows 11, as supported by this motherboard).

### 6.3. Driver Installation

After OS installation, install the necessary drivers for your motherboard's components (chipset, LAN, Wi-Fi, Bluetooth, audio, etc.). These can typically be found on the MSI support website for your specific model.

## 7. Maintenance

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

- **Cleaning:** Periodically clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS/UEFI Updates:** Check the MSI website for the latest BIOS/UEFI updates. Updates can improve compatibility, stability, and performance. Follow the update instructions carefully to avoid issues.
- **Driver Updates:** Keep your drivers updated to ensure optimal performance and compatibility with new software and hardware.
- **Physical Inspection:** Occasionally inspect the motherboard for any loose connections, damaged components, or signs of wear.

## 8. Troubleshooting

This section provides solutions to common issues you might encounter.

### 8.1. No Power / No POST (Power-On Self-Test)

- **Check Power Connections:** Ensure the 24-pin ATX and 8-pin CPU power cables are securely connected to the motherboard and PSU.
- **Verify PSU:** Test your power supply unit to ensure it is functioning correctly.
- **Reseat Components:** Reseat the CPU, RAM modules, and graphics card. Ensure they are properly seated in their respective slots.
- **Clear CMOS:** Refer to your motherboard manual for instructions on how to clear the CMOS (Complementary Metal-Oxide-Semiconductor) settings, which can resolve boot issues.

### 8.2. No Display Output

- **Check Monitor Connection:** Ensure your display cable is securely connected to both the graphics card (or motherboard's integrated graphics port) and the monitor.
- **Verify Graphics Card:** If using a dedicated graphics card, ensure it is properly installed and has sufficient power. Test with integrated graphics if available.
- **Monitor Input:** Ensure your monitor is set to the correct input source.

### 8.3. Operating System Not Booting

- **Check Boot Order:** Enter BIOS/UEFI and verify that your primary storage drive (where the OS is installed) is set as the first boot device.
- **Storage Drive Connection:** Ensure your SATA or M.2 SSD is properly connected and detected by the BIOS/UEFI.

- **OS Corruption:** If the above steps fail, the operating system installation may be corrupted and require reinstallation or repair.

## 9. Warranty and Support

MSI provides a manufacturer's warranty for the B760M Project Zero Gaming Motherboard. The specific terms and duration of the warranty may vary by region and retailer. Please retain your proof of purchase for warranty claims.

For technical support, driver downloads, BIOS updates, and further assistance, please visit the official MSI support website. You can typically find detailed FAQs, troubleshooting guides, and contact information for customer service there.

**MSI Official Website:** www.msi.com

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