

ASUS ROG STRIX B760-F GAMING WIFI

ASUS ROG Strix B760-F Gaming WiFi Motherboard User Manual

Model: ROG STRIX B760-F GAMING WIFI | Brand: ASUS

INTRODUCTION

The ASUS ROG Strix B760-F Gaming WiFi 6E Gaming motherboard is engineered to provide robust performance for 13th and 12th Gen Intel Core processors. It features advanced power delivery and optimized cooling solutions to ensure stability under demanding workloads. With support for DDR5 memory, PCIe 5.0, and Wi-Fi 6E, this motherboard offers high-speed data transfer and network connectivity, making it ideal for high-performance gaming and computing.

Key Features

- Intel LGA 1700 socket: Ready for 13th Gen Intel Core processors & 12th Gen Intel Core, Pentium Gold and Celeron Processors
- Robust Power Solution: 16 + 1 power stages, ProCool power connectors, high-quality alloy chokes, and durable capacitors are all leveraged to support the latest multi-core processors
- Optimized VRM Thermals: Thick heatsinks bridged to the power stages with high-conductivity thermal pads keep the solution cool during heavy workloads
- High-Performance Networking: On-board Intel Wi-Fi 6E (802.11ax) and Intel 2.5G Ethernet with ASUS LANGuard
- Abundant Connectivity: USB 3.2 Gen 2x2 Type-C rear I/O port, seven additional USB 3.2 Gen 2 and Gen 1 ports, USB 3.2 Gen 2 front-panel connector, PCIe 5.0 x16 SafeSlot, HDMI 2.1, and DisplayPort 1.4
- Intelligent Control: ASUS-exclusive AI Networking and Two-Way AI Noise Cancelation to simplify setup and improve performance
- DIY-Friendly Design: PCIe Slot Q-Release, M.2 Q-Latch, BIOS FlashBack button, Clear CMOS button, and Q-LED
- Industry-leading Gaming Audio: ALC4080 with Savitech SV3H712 amplifier, along with DTS Sound Unbound and Sonic Studio III

- Renowned Software: Bundled 60-day AIDA64 Extreme trial subscription and intuitive UEFI BIOS dashboard with integrated MemTest86



Figure 1: The ASUS ROG Strix B760-F Gaming WiFi Motherboard alongside its retail packaging.



Figure 2: The ASUS ROG Strix B760-F Motherboard highlighting Windows 11 Ready and Aura Sync compatibility.

SETUP GUIDE

This section provides an overview of the motherboard's layout and essential connections for initial setup.

Components Overview

Comprehensive Cooling

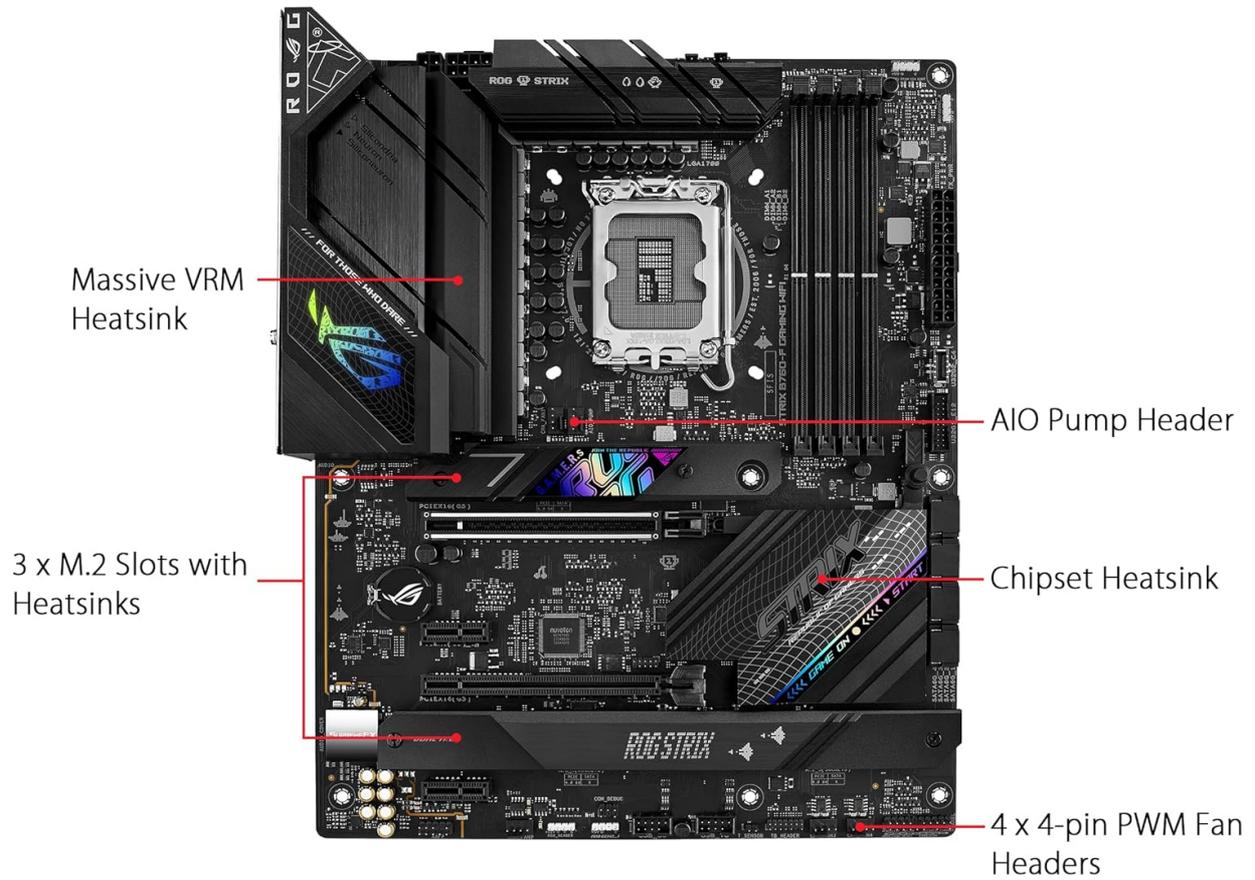


Figure 3: A detailed diagram illustrating the key components and expansion slots of the ASUS ROG Strix B760-F motherboard, including the Intel LGA 1700 socket, DDR5 DIMM slots, M.2 slots, and PCIe 5.0 x16 SafeSlot.

What's In The Box

Full Connectivity

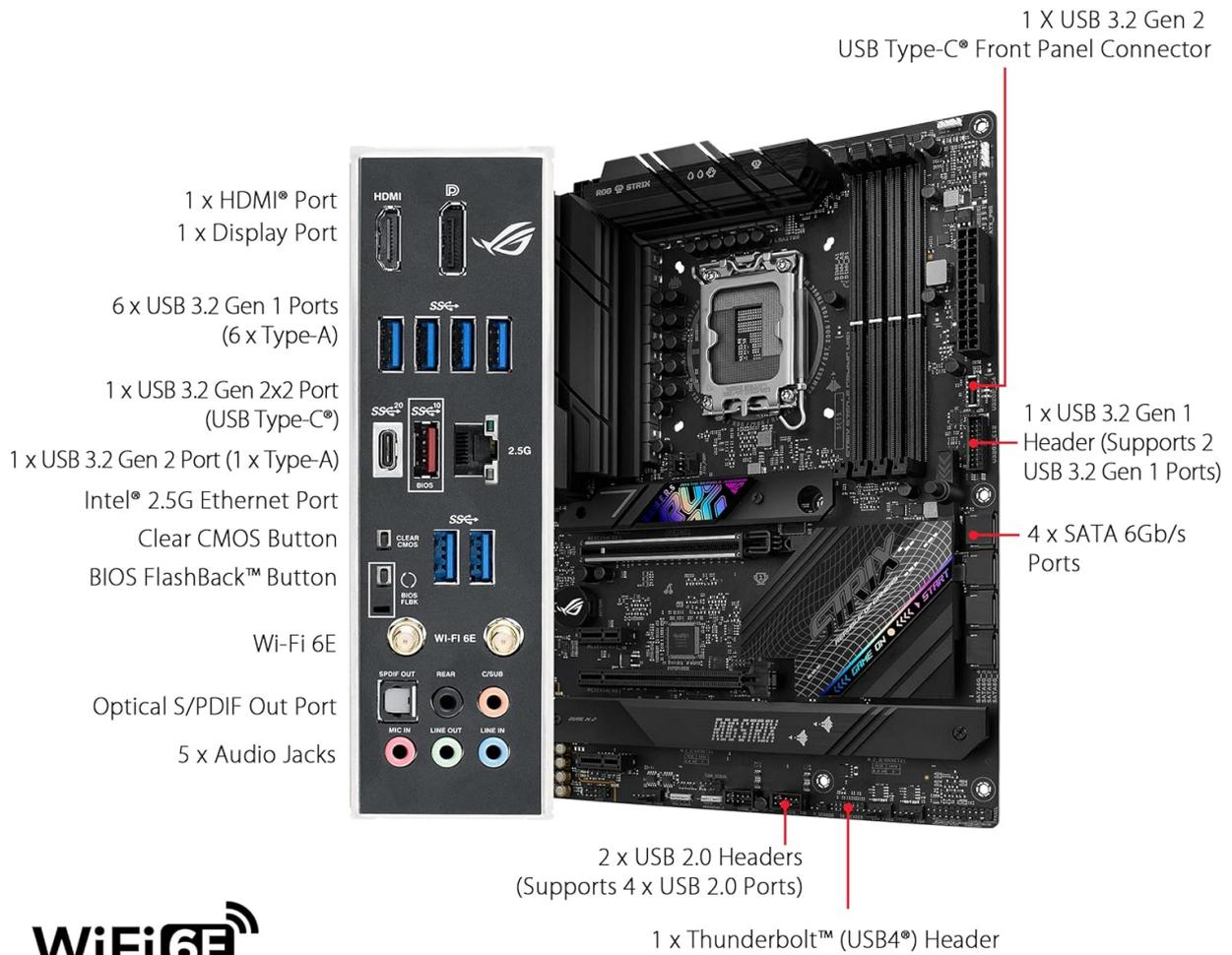


Figure 4: An image displaying the contents typically found within the ASUS ROG Strix B760-F Gaming WiFi Motherboard packaging, including the motherboard, Wi-Fi 6E antenna, manual, ROG Strix stickers, thank you card, ROG key chain, and SATA cables.

Product Overview Video

Video 1: An official product overview video provided by the seller, showcasing the ASUS ROG Strix B760-F Gaming WiFi Motherboard's features and design. This video offers a visual guide to the motherboard's various aspects.

OPERATING INSTRUCTIONS

Understanding the various connectivity options and cooling mechanisms is crucial for optimal operation.

Connectivity

What's In The Box



Figure 5: A comprehensive diagram illustrating the full range of connectivity options available on the ASUS ROG Strix B760-F motherboard, including rear I/O ports (USB 3.2 Gen 2x2 Type-C, USB 3.2 Gen 2, USB 3.2 Gen 1, HDMI, DisplayPort, Intel 2.5G Ethernet, Wi-Fi 6E), and internal headers (USB 3.2 Gen 1, USB 2.0, SATA 6Gb/s).

Cooling Solutions

Total Gaming Immersion

3 x 3-Pin Addressable Gen 2 RGB Headers
1 x 4-Pin Aura RGB Header



I/O Zone Aura Lighting



SupremeFX ALC4080 Codec + Savitech SV3H712 AMP

- Impedance sense
- 120 dB SNR stereo playback output
- 113 dB SNR recording input
- SupremeFX shielding

Sonic Studio III + Sonic Studio Virtual Mixer + Sonic Suite Companion

Sonic Radar III

DTS® Sound Unbound™

Figure 6: This diagram showcases the comprehensive cooling design of the ASUS ROG Strix B760-F motherboard, featuring massive VRM heatsinks, three M.2 slots with heatsinks, a chipset heatsink, and multiple 4-pin PWM fan headers for efficient thermal management.

Total Gaming Immersion

Built For Speed And Expansion

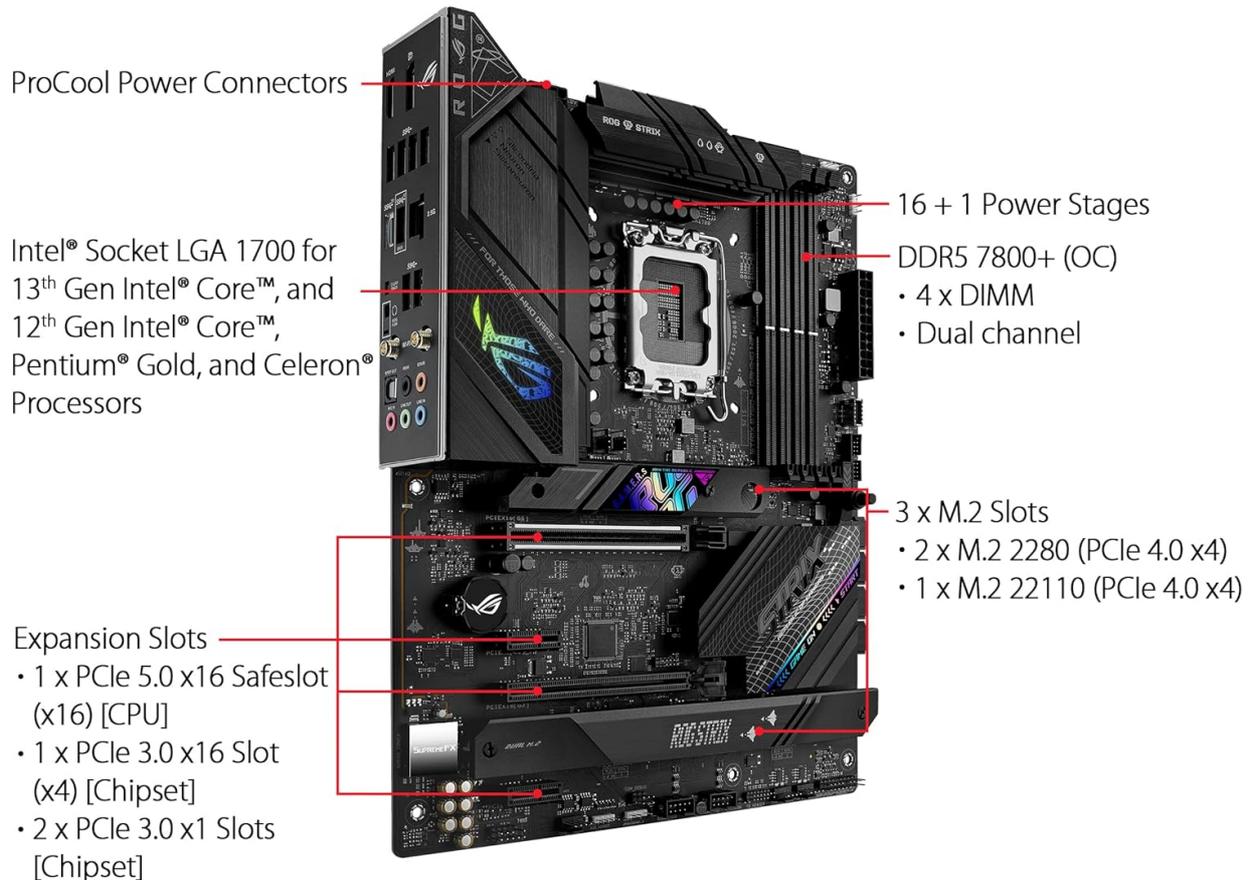


Figure 7: An image emphasizing the total gaming immersion features of the ASUS ROG Strix B760-F motherboard, including I/O Zone Aura Lighting, multiple Addressable Gen 2 RGB Headers, and details on the SupremeFX ALC4080 Codec with Savitech SV3H712 amplifier for industry-leading audio.

MAINTENANCE AND CARE

To ensure the longevity and optimal performance of your ASUS ROG Strix B760-F motherboard, regular maintenance is recommended:

- **Dust Removal:** Periodically clean dust from the motherboard and surrounding components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS/UEFI Updates:** Keep your BIOS/UEFI firmware updated to the latest version. Check the ASUS support website for new releases, which often include performance improvements, bug fixes, and compatibility enhancements.
- **Driver Updates:** Ensure all device drivers (chipset, audio, network, etc.) are up-to-date. This can improve system stability and performance.
- **Thermal Paste:** If you replace your CPU cooler, ensure to reapply high-quality thermal paste to maintain efficient heat transfer from the CPU to the cooler.

TROUBLESHOOTING

This section addresses common issues you might encounter with your motherboard. For more detailed troubleshooting, refer to the comprehensive manual or ASUS support.

- **No Power/No Boot:** Ensure all power cables (24-pin ATX, 8-pin CPU) are securely connected to the

motherboard and power supply. Verify the power supply is switched on. Check the Q-LED indicators on the motherboard for diagnostic codes.

- **No Display:** Confirm that your monitor is connected to the correct graphics output (either integrated graphics if your CPU supports it, or your dedicated graphics card). Reseat the graphics card and RAM modules.
- **Component Not Detected:** If a component (e.g., RAM, M.2 SSD, PCIe card) is not detected, ensure it is properly seated in its slot. Check the BIOS/UEFI settings to confirm it is enabled and recognized.
- **System Instability/Crashes:** This can be caused by various factors, including outdated drivers, unstable overclocks, or faulty hardware. Try resetting BIOS settings to default, updating drivers, and testing components individually.
- **BIOS FlashBack:** If a BIOS update fails or the system becomes unbootable, use the BIOS FlashBack feature with a USB drive to restore the BIOS. Refer to the manual for detailed instructions on this process.

TECHNICAL SPECIFICATIONS

Feature	Specification
Product Dimensions	14 x 10.8 x 2.6 inches
Item Weight	4.4 pounds
Manufacturer	ASUS
Language	English
ASIN	B0BR8W84MB
Item model number	ROG STRIX B760-F GAMING WIFI
CPU Socket	LGA 1700
Compatible Devices	Personal Computer
RAM Memory Technology	DDR5
Compatible Processors	12th Generation Intel Core
Chipset Type	Intel B760
Memory Clock Speed	7800 MHz
Platform	No Operating System
CPU Model	Pentium

WARRANTY AND SUPPORT

ASUS provides a limited warranty for its motherboards. For specific warranty terms, duration, and conditions, please refer to the warranty card included with your product or visit the official ASUS support website. You can find drivers, FAQs, and contact information for technical support on their website. For further assistance, please visit the [ASUS Store on Amazon](#) or their official support portal.

