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ASUS ROG Strix B550-XE

ASUS ROG Strix B550-XE Gaming WiFi Motherboard Instruction Manual

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your ASUS ROG Strix B550-XE Gaming WiFi motherboard.

Introduction

The ASUS ROG Strix B550-XE Gaming WiFi motherboard is designed to support AMD AM4 socket processors, including the Ryzen 5000 Series, 4000 G-Series, and 3000 Series Desktop Processors. It features robust power delivery, effective cooling solutions, and advanced connectivity options for a high-performance computing experience.



Image: The ASUS ROG Strix B550-XE Gaming WiFi motherboard displayed alongside its retail packaging, highlighting the product's design and branding.

What's in the Box

Upon unboxing your ASUS ROG Strix B550-XE Gaming WiFi motherboard, you will find the following components:

What's in the Box



Image: A detailed view of the ASUS ROG Strix B550-XE Gaming WiFi motherboard and all its included accessories, such as cables, antenna, and documentation.

- ASUS ROG Strix B550-XE Gaming WiFi Motherboard
- ASUS 2x2 Dual Band Wi-Fi Antenna
- User Manual and Documentation
- Support DVD (for drivers and utilities)
- ROG Audio USB Type-C Cable
- ROG Stickers and Key Chain
- SATA Cables (including 90-degree bend options)
- Cable Ties
- M.2 Rubber Packages & M.2 SSD Screw Packages (for SSD installation)
- Hyper M.2 x16 Gen 4 Card (for additional M.2 SSDs)
- Addressable RGB Extension Cables & RGB Extension Cables

Setup and Installation

Motherboard Layout Overview

Familiarize yourself with the key components and connectors on your motherboard before proceeding with

installation.

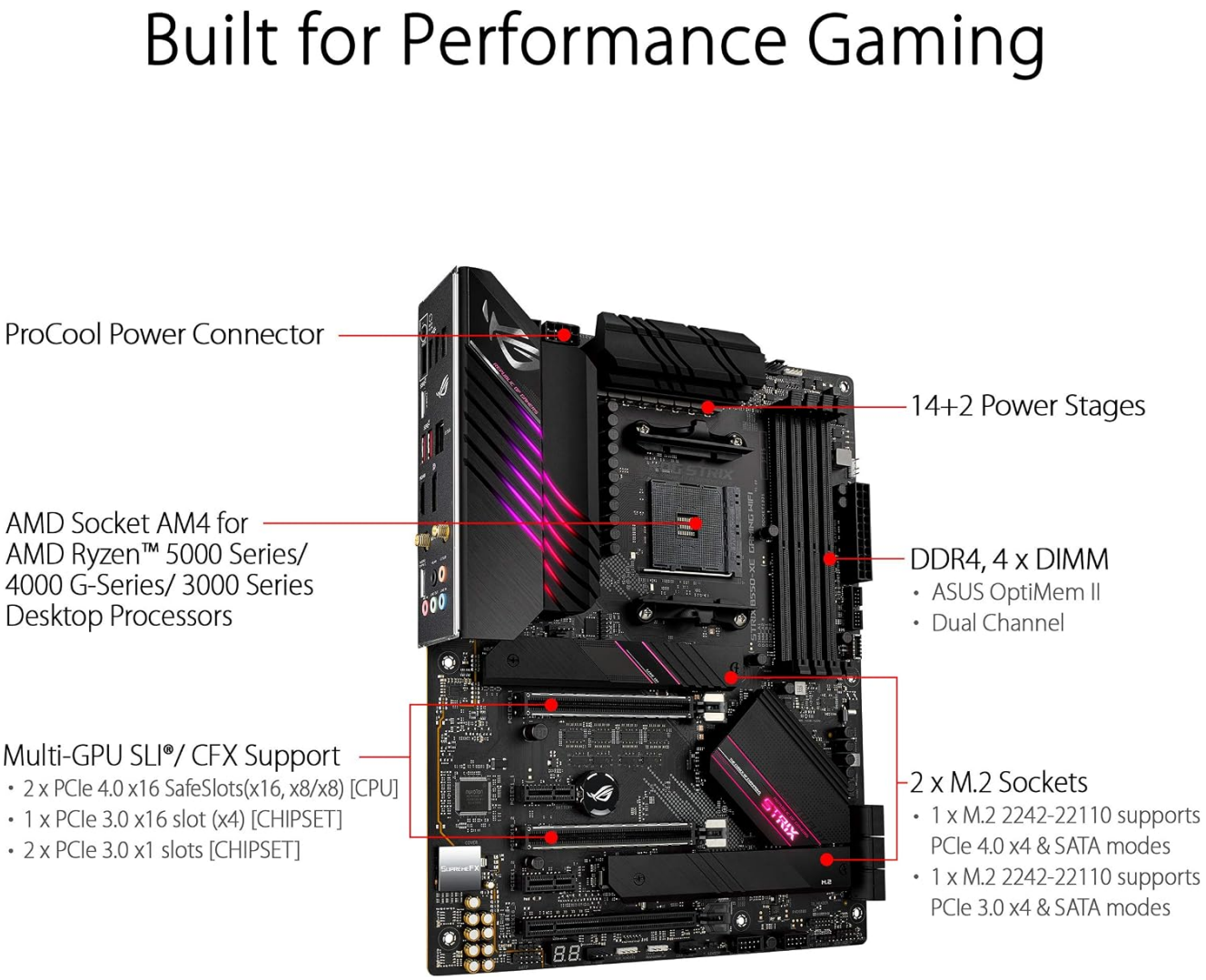


Image: The motherboard highlighting the AMD AM4 Socket, 14+2 Power Stages, DDR4 DIMM slots, ProCool Power Connector, and 2 M.2 Sockets.

Comprehensive Cooling



Image: The motherboard showcasing its comprehensive cooling design, including the Integrated I/O & VRM Heatsink, Dual M.2 Heatsinks, Chipset Heatsink, AIO Pump Header, and Multiple 4-pin PWM Fan Headers.

Total Gaming Immersion

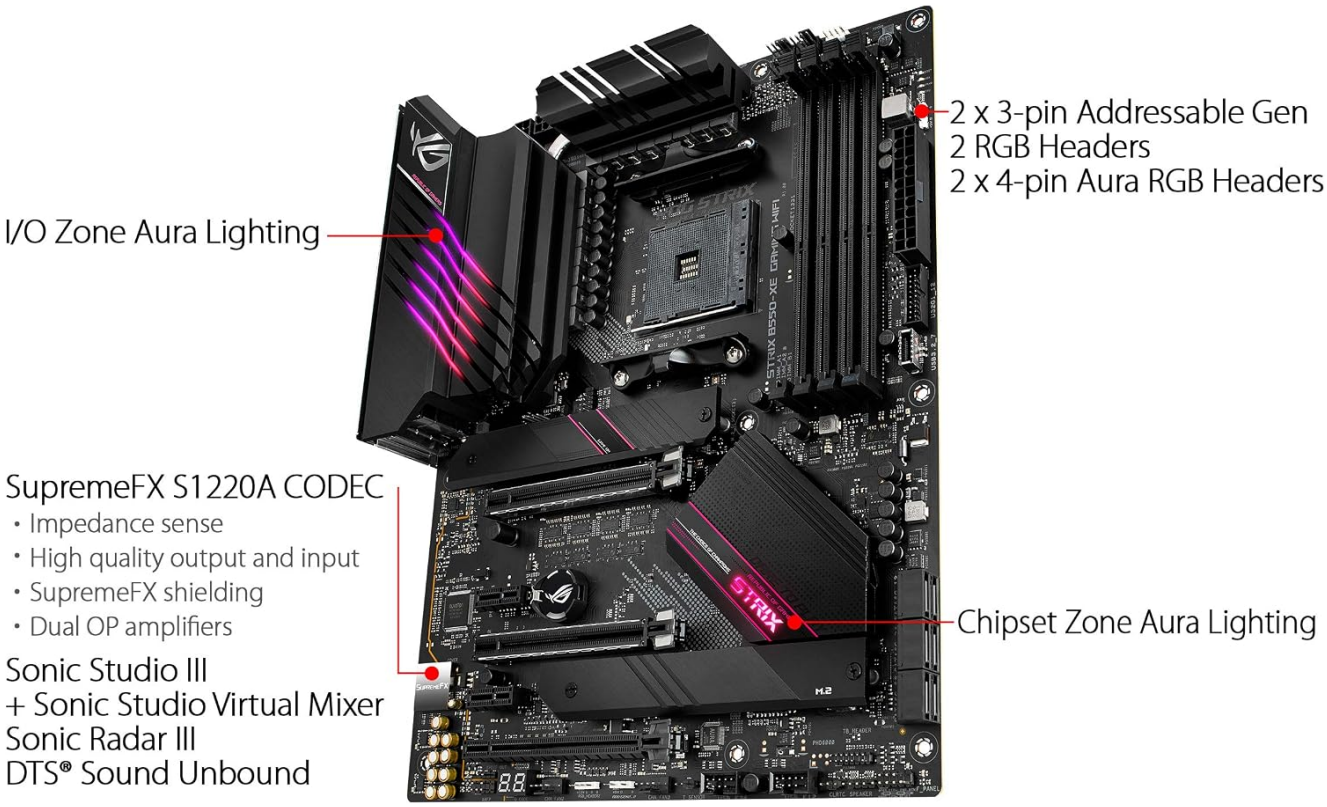


Image: The motherboard illustrating its RGB and audio capabilities, with labels for I/O Zone Aura Lighting, SupremeFX S1220A CODEC, 3-pin Addressable Gen 2 RGB Headers, 4-pin Aura RGB Headers, and Chipset Zone Aura Lighting.

Full Connectivity

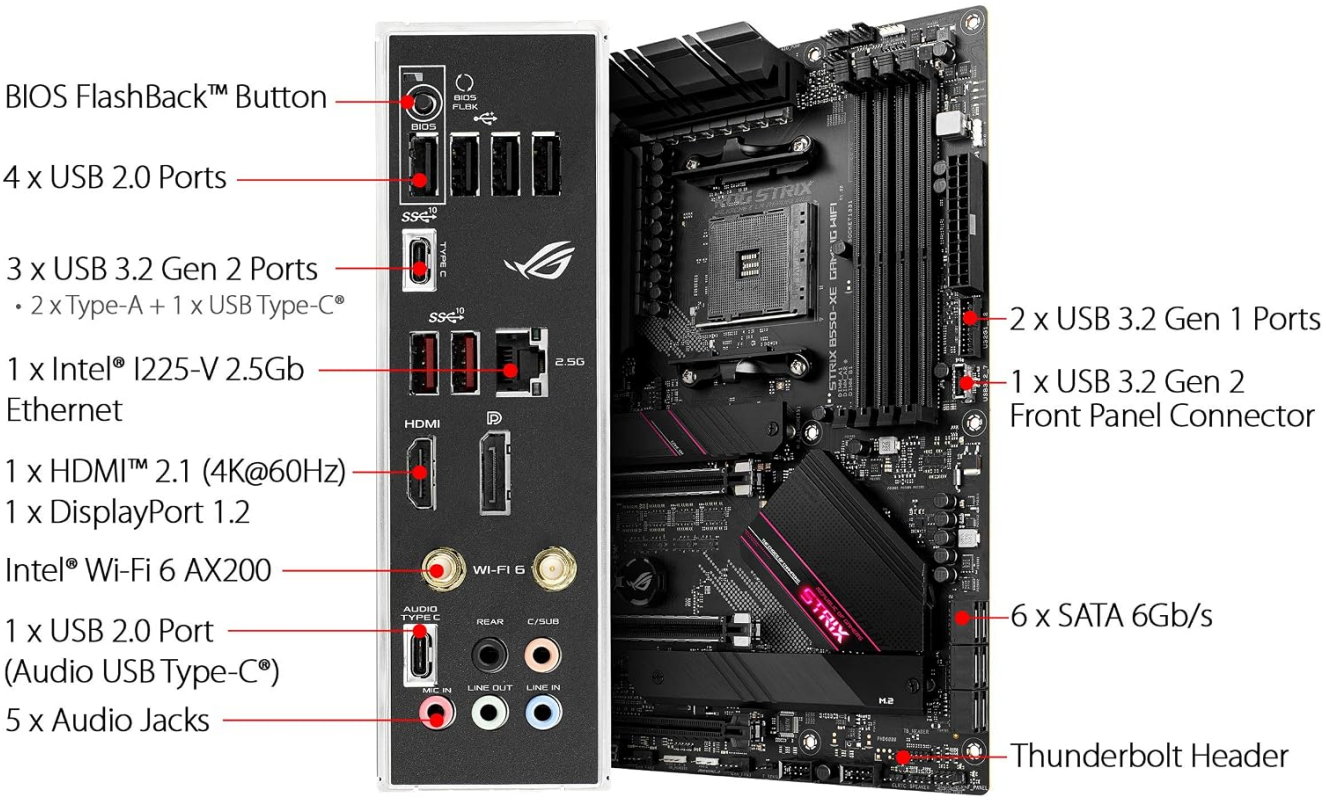


Image: A detailed view of the motherboard's rear I/O ports, including BIOS FlashBack Button, USB 2.0, USB 3.2 Gen 2 Type-C, Intel I225-V 2.5Gb Ethernet, HDMI 2.1, DisplayPort 1.2, Intel Wi-Fi 6 AX200, Audio USB Type-C, Audio Jacks, USB 3.2 Gen 1, USB 3.2 Gen 2 Front Panel Connector, SATA 6Gb/s, and Thunderbolt Header.

Processor (CPU) Installation

The motherboard features an AM4 socket, compatible with AMD Ryzen 5000, 4000 G-Series, and 3000 Series Desktop Processors.

1. Carefully open the CPU socket lever.
2. Align the golden triangle on your CPU with the corresponding mark on the motherboard socket.
3. Gently place the CPU into the socket without forcing it.
4. Close the CPU socket lever to secure the processor.

Memory (RAM) Installation

This motherboard supports DDR4 DIMM memory modules. Refer to your user manual for recommended slot configurations for optimal dual-channel performance.

1. Open the retention clips on the DIMM slots.
2. Align the notch on the RAM module with the notch in the DIMM slot.
3. Press down firmly on both ends of the RAM module until the clips snap into place.

M.2 SSD Installation

The motherboard includes two onboard M.2 slots with dedicated heatsinks, and a bundled ASUS Hyper M.2 x16

Gen 4 Card for additional M.2 SSDs.

1. Locate the M.2 slots on the motherboard. Some slots may be covered by heatsinks; remove these if necessary.
2. Insert the M.2 SSD into the slot at an angle.
3. Gently push down the SSD and secure it with the provided M.2 screw and standoff.
4. If applicable, reattach the M.2 heatsink.

Motherboard Installation into PC Case

Ensure your PC case has the correct standoffs installed for an ATX motherboard.

1. Carefully align the motherboard with the standoffs in your PC case.
2. Ensure the integrated I/O shield aligns correctly with the case's rear opening.
3. Secure the motherboard with the appropriate screws.

Operating Instructions

BIOS FlashBack™

The BIOS FlashBack™ feature allows you to update the BIOS without installing a CPU, memory, or graphics card. Simply download the latest BIOS file from the ASUS support website, rename it, and place it on a USB flash drive. Insert the USB drive into the designated BIOS FlashBack™ USB port on the rear I/O panel and press the BIOS FlashBack™ button.

Network Connectivity

This motherboard features onboard Intel Wi-Fi 6 (802.11ax) and Intel 2.5 Gb Ethernet. Connect the included Wi-Fi antenna to the rear I/O panel for wireless connectivity. For wired connections, plug an Ethernet cable into the 2.5 Gb LAN port.

Aura Sync RGB Lighting

Utilize ASUS Aura Sync software to customize the Addressable RGB lighting zones on your motherboard and connected compatible devices. This allows for personalized lighting effects and synchronization across your system.

Maintenance

- **Keep Clean:** Regularly clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Firmware Updates:** Periodically check the ASUS support website for the latest BIOS and driver updates to ensure optimal performance and stability.
- **Cable Management:** Ensure cables are neatly routed to prevent obstruction of airflow and potential damage.

Troubleshooting

- **No Power:** Verify all power connections (24-pin ATX, 8-pin CPU) are securely seated. Check power supply functionality.
- **No Display:** Ensure the graphics card is properly seated in the PCIe slot and connected to the power supply. Check monitor connections and input source. If using integrated graphics, ensure your CPU supports it.
- **System Instability:** Check RAM seating and compatibility. Ensure CPU cooler is properly installed and making good contact. Update BIOS and drivers.

- **BIOS Issues:** Use the BIOS FlashBack™ feature to update or recover the BIOS if experiencing boot issues.

Specifications

Feature	Detail
CPU Socket	AMD AM4 Socket (Ryzen 5000/4000 G-Series/3000 Series Desktop Processors)
Chipset	AMD B550
Memory	4 x DIMM, Max. 128GB, DDR4 (up to 4600MHz O.C.)
PCIe Slots	1 x PCIe 4.0 x16, 1 x PCIe 3.0 x16, 3 x PCIe 3.0 x1
M.2 Slots	2 x Onboard M.2 slots, 4 x M.2 slots via bundled Hyper M.2 x16 Gen 4 Card
SATA Ports	6 x SATA 6Gb/s ports
Ethernet	Intel 2.5Gb Ethernet
Wireless	Intel Wi-Fi 6 (802.11ax)
Bluetooth	Bluetooth 5.2
USB Ports (Rear)	2 x USB 3.2 Gen 2 (1x Type-A, 1x Type-C), 4 x USB 3.2 Gen 1 Type-A, 2 x USB 2.0
Video Output	1 x HDMI 2.1, 1 x DisplayPort 1.2 (CPU dependent)
Audio	SupremeFX S1220A CODEC, 5 x Audio Jacks, 1 x Optical S/PDIF Out
Power Stages	14+2 90A Power Stages

Warranty and Support

For detailed warranty information, technical support, and driver downloads, please visit the official ASUS support website.

ASUS Support Website

Product Overview Video

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Video: A brief overview of the ASUS ROG Strix B550-XE Gaming WiFi motherboard, showcasing its features and design within a PC build. This video highlights the aesthetic appeal and some key components of the motherboard.

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