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> [ASUS ROG Strix B660-A WiFi D4 Gaming Motherboard User Manual](#)

ASUS B660-A GAMING WIFI D4

ASUS ROG Strix B660-A WiFi D4 Gaming Motherboard User Manual

Model: B660-A GAMING WIFI D4

INTRODUCTION

This manual provides comprehensive instructions for the installation, operation, and maintenance of your ASUS ROG Strix B660-A WiFi D4 Gaming Motherboard. This motherboard is designed to support 12th Generation Intel Core processors, offering robust power delivery, optimized cooling, and high-speed connectivity features including Wi-Fi 6 and PCIe 5.0.

SAFETY INFORMATION

Always observe the following safety precautions when handling and installing your motherboard:

- Ensure your hands are clean and dry before handling components.
- Wear an anti-static wrist strap or frequently touch a grounded metal object to discharge static electricity.
- Disconnect the power cord from the wall outlet before installing or removing any components.
- Avoid touching the pins on the CPU socket or other connectors.
- Keep the motherboard away from liquids and extreme temperatures.
- Refer to the safety guidelines provided with other components (CPU, RAM, GPU, PSU) for additional precautions.

PACKAGE CONTENTS

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

- ASUS ROG Strix B660-A WiFi D4 Motherboard
- ASUS Wi-Fi Moving Antenna
- SATA 6Gb/s Cables
- M.2 Rubber Package
- M.2 SSD Screw Package
- Cable Ties Package

- ROG Strix Stickers
- ROG Key Chain
- User Manual and Documentation
- Support DVD (for drivers and utilities)



Image: The ASUS ROG Strix B660-A WiFi D4 motherboard shown with its retail packaging and all included accessories, such as the Wi-Fi antenna, SATA cables, and documentation.

SETUP

1. Pre-Installation Checks

Before beginning installation, ensure you have a compatible CPU (Intel 12th Gen LGA 1700), DDR4 RAM, a power supply unit (PSU), and a computer case.

2. Motherboard Installation

Carefully align the motherboard with the standoffs in your computer case. Secure the motherboard using the appropriate screws. Ensure the I/O shield is properly seated in the case opening.



Image: An angled view of the ASUS ROG Strix B660-A WiFi D4 motherboard, highlighting its heatsinks and general layout, ready for installation.

3. CPU Installation (LGA 1700)

1. Open the CPU socket lever and lift the load plate.
2. Carefully align the triangular mark on the CPU with the mark on the socket.
3. Gently place the CPU into the socket. Do not force it.
4. Close the load plate and push down the lever until it clicks into place.

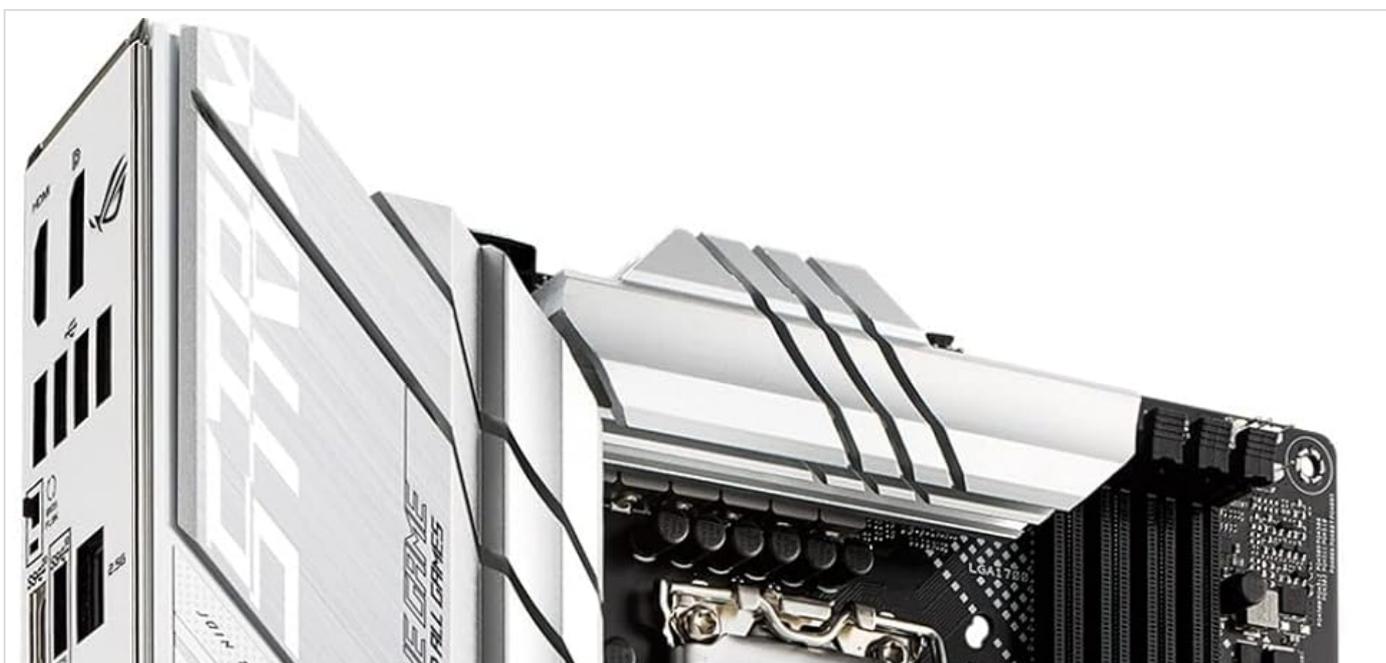




Image: A detailed view of the CPU socket area and the integrated I/O shield on the ASUS ROG Strix B660-A WiFi D4 motherboard, showing the LGA 1700 socket.

4. RAM Installation (DDR4)

This motherboard supports DDR4 memory. Insert RAM modules into the DIMM slots, ensuring the notch on the module aligns with the key in the slot. Press down firmly on both ends until the clips snap into place.



Image: A perspective view of the ASUS ROG Strix B660-A WiFi D4 motherboard, focusing on the CPU socket and the four DDR4 RAM slots.

5. M.2 SSD Installation

The motherboard features three M.2 slots. To install an M.2 SSD, remove the M.2 heatsink, insert the SSD into the slot,

and secure it with the M.2 Q-Latch mechanism or screw. Reattach the heatsink.

6. Graphics Card Installation

Insert your PCIe graphics card into the primary PCIe 5.0 x16 slot. Ensure it is fully seated and secure it with the case's retention clip and a screw.

7. Power Supply Connections

Connect the 24-pin ATX power connector and the 8-pin + 4-pin CPU power connectors from your PSU to the corresponding ports on the motherboard.

8. Front Panel Connectors

Connect the front panel cables (power button, reset button, USB ports, audio jacks, etc.) from your case to the appropriate headers on the motherboard. Refer to the motherboard layout diagram for exact locations.

9. Wi-Fi Antenna Installation

Screw the included Wi-Fi moving antenna onto the two antenna connectors on the motherboard's rear I/O panel. Position the antenna for optimal signal reception.

2. Driver Installation

For optimal performance and stability, install the latest drivers for your motherboard. You can use the included support DVD or download them directly from the official ASUS support website. ASUS Armoury Crate software can assist with driver and utility installation, though manual installation is also an option.

3. System Configuration

Once the operating system is installed and drivers are updated, you can further configure your system. This includes setting up network connections (Wi-Fi 6 or 2.5 Gb LAN), audio settings, and installing necessary software.

MAINTENANCE

1. Cleaning

Regularly clean your computer case and motherboard to prevent dust buildup, which can affect cooling and component lifespan. Use compressed air to remove dust from fans, heatsinks, and other components. Ensure the system is powered off and unplugged before cleaning.

2. BIOS Updates

ASUS periodically releases BIOS updates to improve compatibility, stability, and performance. You can update the BIOS using the ASUS EZ Flash utility within the BIOS or via the BIOS FlashBack button (requires a USB drive and specific file naming). Always follow the instructions carefully when updating the BIOS.

3. Driver and Software Updates

Keep your drivers and utility software updated to ensure optimal system performance and security. Check the ASUS support website regularly for the latest versions.

TROUBLESHOOTING

If you encounter issues with your motherboard, consider the following common troubleshooting steps:

- **No Power/No Boot:**

- Check all power connections (24-pin ATX, 8-pin CPU, 4-pin CPU).
- Ensure the PSU is switched on.
- Verify front panel power button connection.

- **No Display:**

- Ensure the monitor cable is connected to the graphics card (or motherboard if using integrated graphics).
- Reseat the graphics card and RAM modules.
- Check the Q-LED indicators on the motherboard for diagnostic codes.

- **System Instability/Crashes:**

- Ensure all drivers are installed and up to date.
- Check CPU and GPU temperatures.
- Run memory diagnostic tools.

- **Peripheral Issues:**

- Try different USB ports.

- Reinstall peripheral drivers.

For more detailed troubleshooting or persistent issues, refer to the ASUS support website or contact technical support.

SPECIFICATIONS

Key technical specifications for the ASUS ROG Strix B660-A WiFi D4 Gaming Motherboard:

Feature	Specification
CPU Socket	LGA 1700
Compatible Processors	Intel 12th Gen Core, Pentium Gold, Celeron
Chipset	Intel B660
RAM Technology	DDR4
Memory Speed	Up to 3200 MHz (native), higher with OC
PCIe Slots	1x PCIe 5.0 x16, 1x PCIe 3.0 x16 (x4 mode), 2x PCIe 3.0 x1
M.2 Slots	3x M.2 (PCIe 4.0 NVMe SSD Support)
Networking	Intel Wi-Fi 6 (802.11ax), Intel 2.5 Gb Ethernet
USB Ports	USB 3.2 Gen 2x2 Type-C, USB 3.2 Gen 2, USB 3.2 Gen 1, USB 2.0
Video Output	HDMI 2.1, DisplayPort 1.4
Form Factor	ATX
Dimensions (LxWxH)	12 x 9.6 x 4 inches

WARRANTY AND SUPPORT

Your ASUS ROG Strix B660-A WiFi D4 Gaming Motherboard comes with a limited warranty. For detailed warranty terms and conditions, please refer to the warranty card included in your package or visit the official ASUS support website.

For technical assistance, driver downloads, BIOS updates, and FAQs, please visit the ASUS support website:

www.asus.com/support/

When contacting support, please have your product model number (B660-A GAMING WIFI D4) and serial number ready.

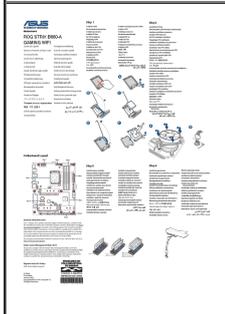
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Related Documents - B660-A GAMING WIFI D4



[ASUS ROG Strix Z690-I Gaming WiFi Motherboard User Manual](#)

Comprehensive user guide for the ASUS ROG Strix Z690-I Gaming WiFi motherboard, covering installation, basic setup, BIOS configuration, and technical specifications for Intel 12th Gen processors.



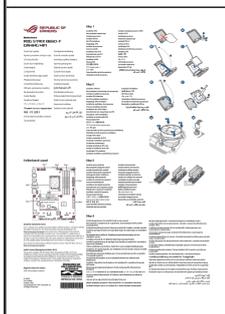
[ASUS ROG STRIX B660-A GAMING WIFI Motherboard Quick Start Guide](#)

A concise guide for installing and setting up the ASUS ROG STRIX B660-A GAMING WIFI motherboard, covering CPU, RAM, storage, expansion cards, system panel connections, power, and I/O devices.



[ASUS ROG Strix Arion ESD-S1C User Manual - Features, Specifications, and Safety](#)

Comprehensive user manual for the ASUS ROG Strix Arion ESD-S1C external SSD enclosure. Learn about its features, specifications, connectivity, and important safety information.



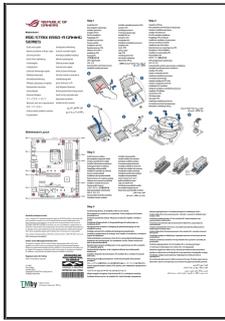
[ASUS ROG STRIX B660-F GAMING WIFI Motherboard Quick Start Guide](#)

A concise guide to installing and setting up the ASUS ROG STRIX B660-F GAMING WIFI motherboard, covering CPU, RAM, storage, expansion cards, and system connections.



[ASUS ROG Strix 1200W Platinum Power Supply Unit - Features and Specifications](#)

Explore the features and specifications of the ASUS ROG Strix 1200W Platinum power supply unit, including GaN MOSFET, Intelligent Voltage Stabilizer, ROG Heatsinks, ATX 3.1 compatibility, and 10-year warranty.



[ASUS ROG STRIX B560-A GAMING SERIES Motherboard Quick Start Guide](#)

Concise guide for installing the ASUS ROG STRIX B560-A GAMING SERIES motherboard, covering CPU, RAM, storage, expansion cards, and system connections. Includes motherboard layout and important notices.