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GIGABYTE H370 AORUS Gaming 3 WIFI

GIGABYTE H370 AORUS Gaming 3 WIFI Motherboard User Manual

Comprehensive guide for installation, operation, and maintenance of your GIGABYTE H370 AORUS Gaming 3 WIFI Motherboard.

Introduction

This manual provides detailed instructions for the installation, configuration, and operation of the GIGABYTE H370 AORUS Gaming 3 WIFI Motherboard. Please read this manual thoroughly before beginning installation to ensure proper setup and to prevent damage to the components.
The GIGABYTE H370 AORUS Gaming 3 WIFI motherboard is designed to support 8th Generation Intel Core Processors, featuring dual-channel DDR4 memory support with 4 DIMM slots, and advanced connectivity including USB 3.1 Gen 2 Type-A and Type-C ports. It integrates Realtek ALC1220 Codec for high-quality audio and Intel i219V LAN for stable network connectivity. The board also includes Gigabyte UEFI Dual BIOS and the APP Center for system management.

Safety Information

Observe the following safety precautions to prevent damage to the motherboard and injury to yourself:

- Always disconnect the power cord from the wall outlet before touching any components inside the computer case.
- Wear an anti-static wrist strap when handling the motherboard or other components to prevent electrostatic discharge (ESD).
- Handle components by their edges; avoid touching pins or circuitry.
- Ensure proper ventilation within the computer case to prevent overheating.
- Keep the motherboard away from moisture and extreme temperatures.

Package Contents

Verify that all items are present in the package:

- GIGABYTE H370 AORUS Gaming 3 WIFI Motherboard
- User Manual
- Driver CD/USB Drive

- SATA Data Cables
- I/O Shield
- Wi-Fi Antenna
- M.2 Screw Package



Image: The GIGABYTE H370 AORUS Gaming 3 WIFI Motherboard shown alongside its retail packaging. The box features the AORUS logo and product model name prominently.

Setup

1. Motherboard Layout

Familiarize yourself with the various components and connectors on the motherboard.



Image: A top-down view of the GIGABYTE H370 AORUS Gaming 3 WIFI Motherboard, highlighting the CPU socket (LGA1151), four DDR4 DIMM slots, PCIe slots, and various headers.



Image: Close-up view of the rear I/O panel, showing USB 2.0, USB 3.1 Gen 1, USB 3.1 Gen 2 Type-A and Type-C ports, HDMI, DVI-D, LAN, and audio jacks.

2. Installing the CPU

1. Locate the LGA1151 CPU socket on the motherboard.
2. Open the CPU socket lever and lift the load plate.
3. Carefully align the CPU with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket.
4. Gently place the CPU into the socket without forcing it.
5. Close the load plate and secure it with the lever.

3. Installing Memory (RAM)

The motherboard supports Dual Channel DDR4 memory. For optimal performance, install memory modules in matched pairs.

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



Image: The GIGABYTE H370 AORUS Gaming 3 WIFI Motherboard showcasing its illuminated DDR4 DIMM slots and AORUS logo, indicating active RGB lighting.

4. Installing Storage Devices (M.2 SSDs and SATA Drives)

The motherboard features M.2 slots for high-speed NVMe SSDs and SATA ports for traditional hard drives or SSDs.

- **M.2 SSD Installation:** Locate the M.2 slots. Insert the M.2 SSD into the slot at a 30-degree angle, then gently push it down and secure it with the provided screw.
- **SATA Drive Installation:** Connect one end of the SATA data cable to a SATA port on the motherboard and the other end to your SATA drive. Connect the SATA power cable from your power supply to the drive.

5. Installing Expansion Cards (PCIe)

Install graphics cards or other PCIe expansion cards into the appropriate PCIe slots.

1. Align the expansion card with the PCIe slot.
2. Press down firmly until the card is fully seated in the slot and the retention clip engages.
3. Secure the card to the chassis with a screw.

6. Connecting Power Supply

Connect the 24-pin ATX main power connector and the 8-pin ATX 12V CPU power connector from your power supply to the corresponding ports on the motherboard.

7. Connecting Front Panel Headers

Connect the front panel cables (power button, reset button, HDD LED, power LED, USB, audio) to their respective headers on the motherboard. Refer to the motherboard diagram for exact pinouts.

OPERATING

1. Initial Boot and BIOS Setup

After assembling your system, connect a monitor, keyboard, and mouse. Power on the system.

- Press the **DEL** key during startup to enter the BIOS Setup Utility.
- Configure boot order, system time, and other essential settings.
- Save changes and exit BIOS. The system will restart.

2. Operating System Installation

Insert your Windows 10 (or other compatible OS) installation media (USB drive or DVD) and follow the on-screen prompts to install the operating system.

3. Driver Installation

After OS installation, install the necessary drivers from the provided driver CD/USB drive or download the latest drivers from the GIGABYTE official website. This includes chipset, LAN, audio, and Wi-Fi drivers.



Image: An angled view of the GIGABYTE H370 AORUS Gaming 3 WIFI Motherboard, featuring the included external Wi-Fi antenna connected to the rear I/O panel, emphasizing its wireless capabilities.

4. GIGABYTE APP Center

Install the GIGABYTE APP Center utility to access various tools such as EasyTune for system optimization, Cloud Station for remote control, and RGB Fusion for customizing the motherboard's lighting effects.

Maintenance

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

- **Dust Removal:** Periodically clean dust from the motherboard and other components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Check the GIGABYTE website for the latest BIOS updates. Updating the BIOS can improve compatibility and performance. Follow the update instructions carefully to avoid system instability.
- **Driver Updates:** Keep your drivers updated to ensure compatibility and optimal performance with new software and hardware.
- **Cable Management:** Ensure internal cables are neatly managed to improve airflow and prevent interference.

Troubleshooting

If you encounter issues, refer to the following common troubleshooting steps:

Problem	Possible Cause	Solution
System does not power on.	Power supply issue, loose power cables, faulty front panel connection.	Check power supply connections to motherboard and components. Ensure front panel power button cable is correctly connected. Test power supply.
No display on monitor.	Loose graphics card, incorrect monitor connection, faulty RAM.	Reseat graphics card and RAM modules. Ensure monitor cable is securely connected to the correct port (motherboard or discrete GPU).
System crashes or freezes.	Overheating, unstable RAM, outdated drivers, corrupted OS.	Check CPU/GPU temperatures. Test RAM stability. Update all drivers. Consider reinstalling OS if software corruption is suspected.
Wi-Fi/LAN not working.	Missing or outdated network drivers, antenna not connected (Wi-Fi), cable issue (LAN).	Install or update network drivers. Ensure Wi-Fi antenna is securely attached. Check LAN cable connection.

Specifications

Feature	Detail
Model Name	H370 AORUS Gaming 3 WIFI
CPU Socket	LGA 1151
Compatible Processors	8th Generation Intel Core Processors
Chipset	Intel H370 Express Chipset
Memory Type	DDR4
Memory Slots	4 x DIMM slots
Max Memory Speed	2666 MHz
Expansion Slots	1 x PCIe x16 (x16), 1 x PCIe x16 (x4), 4 x PCIe x1

Feature	Detail
Storage	2 x M.2 connectors, 6 x SATA 6Gb/s connectors
USB Ports (Rear I/O)	USB 3.1 Gen 2 Type-A, USB 3.1 Gen 2 Type-C, USB 3.1 Gen 1, USB 2.0/1.1
Video Outputs	HDMI, DVI-D
LAN	Intel GbE LAN chip (10/100/1000 Mbit)
Wireless Connectivity	Intel Wireless-AC 9560 (802.11a/b/g/n/ac, Dual Band, Bluetooth 5)
Audio	Realtek ALC1220 Codec, High Definition Audio, 2/4/5.1/7.1-channel
Form Factor	ATX (30.5cm x 24.4cm)

Warranty and Support

For warranty information, please refer to the warranty card included with your product or visit the official GIGABYTE website. GIGABYTE provides technical support and driver downloads through their official channels.

- **Official GIGABYTE Website:** www.gigabyte.com
- **Product Support Page:** GIGABYTE H370 AORUS Gaming 3 WIFI Support (Note: This link is a placeholder for a specific product support page, actual link may vary.)
- **User Manual (PDF):** Download PDF Manual

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