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GIGABYTE A620I AX

GIGABYTE A620I AX Mini-ITX Motherboard User Manual

Model: A620I AX

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of your GIGABYTE A620I AX Mini-ITX motherboard. Please read this manual thoroughly before beginning installation to ensure proper setup and functionality.



Image 1.1: GIGABYTE A620I AX Mini-ITX Motherboard and its retail packaging.

2. SETUP GUIDE

Follow these steps for proper installation of your motherboard and its components.

2.1 Motherboard Layout and Connectors

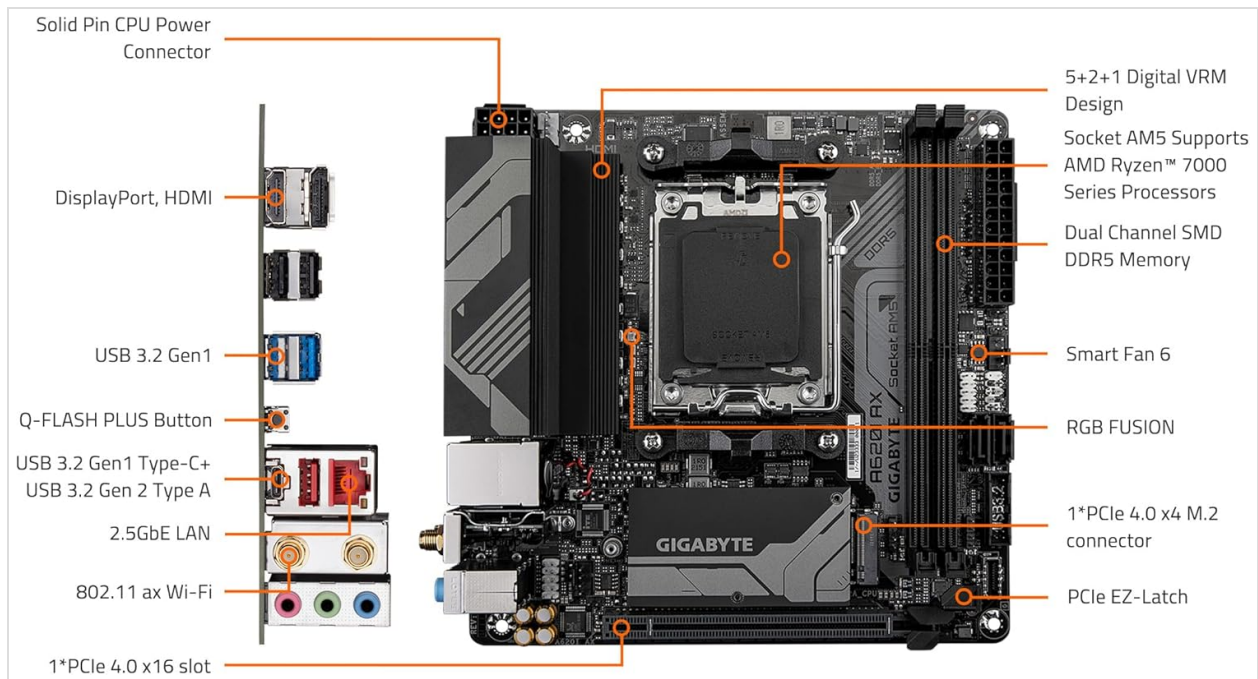


Image 2.1: Detailed diagram of the GIGABYTE A620I AX motherboard, highlighting key components and connectors such as the CPU socket, DDR5 DIMM slots, M.2 connector, PCIe slot, power connectors, and various headers.

2.2 Component Installation

- CPU Installation:** Carefully open the AM5 CPU socket lever. Align the triangular mark on your AMD Ryzen 7000 series processor with the mark on the socket. Gently place the CPU into the socket without forcing it. Close the lever to secure the CPU.
- RAM Installation:** Open the clips on both ends of the DDR5 DIMM slots. Align the notch on your DDR5 memory module with the key in the slot. Insert the module firmly until the clips snap into place. This motherboard supports Dual Channel DDR5 memory.
- M.2 SSD Installation:** Locate the M.2 connector. Remove the screw and standoff. Insert your M.2 SSD at an angle into the slot, then gently push it down and secure it with the screw.
- PCIe Card Installation:** For graphics cards or other expansion cards, align the card with the PCIe 4.0 x16 slot. Press firmly until it seats correctly and the PCIe EZ-Latch mechanism engages. Secure the card with a chassis screw.

2.3 Power Connections

- Connect the 24-pin ATX main power connector from your power supply to the corresponding port on the motherboard.
- Connect the 8-pin (or 4+4-pin) CPU power connector to the Solid Pin CPU Power Connector located near the CPU socket.

2.4 Rear I/O Panel Connections

Connect your peripherals to the rear I/O panel as shown below:

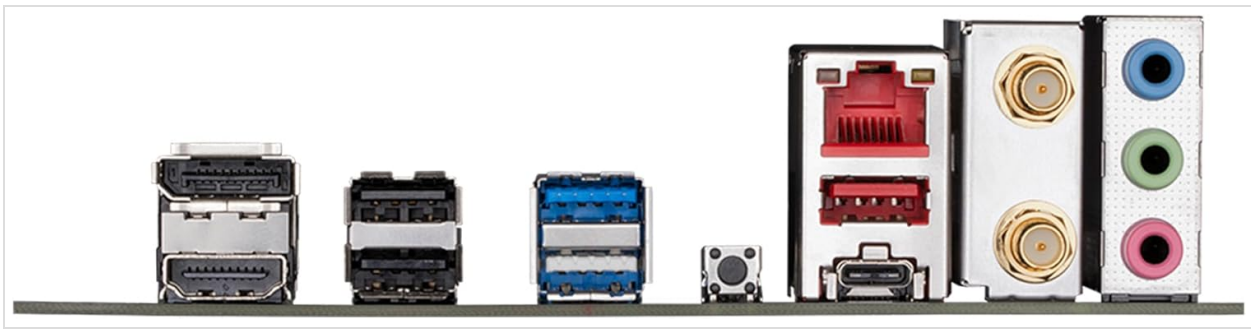


Image 2.2: The rear input/output panel of the GIGABYTE A620I AX motherboard, featuring DisplayPort, HDMI, USB 3.2 Gen1, Q-Flash Plus button, USB 3.2 Gen1 Type-C, 2.5GbE LAN, Wi-Fi antenna connectors, and audio jacks.

- **Display Outputs:** Connect your monitor to the HDMI or DisplayPort.
- **USB Ports:** Utilize the various USB 3.2 Gen1 Type-A and Type-C ports for your peripherals.
- **Network:** Connect an Ethernet cable to the 2.5GbE LAN port for wired internet.
- **Wi-Fi Antennas:** Screw in the included Wi-Fi 6E antennas to the designated connectors for wireless connectivity.
- **Audio Jacks:** Connect speakers or headphones to the audio output jacks.

3. OPERATING INSTRUCTIONS

3.1 First Boot and BIOS/UEFI Access

After assembling your system, power it on. To access the BIOS/UEFI setup, repeatedly press the **Delete** key during the initial boot sequence. The BIOS/UEFI interface allows you to configure system settings, boot order, and enable features like AMD EXPO or Intel XMP for memory optimization.

3.2 Driver Installation

After installing your operating system (Windows 10 or Windows 11), it is crucial to install the latest drivers for your motherboard. These include chipset drivers, LAN drivers, Wi-Fi drivers, and audio drivers. Visit the official GIGABYTE website for your specific motherboard model to download the most up-to-date drivers.

3.3 Q-Flash Plus

The GIGABYTE A620I AX features Q-Flash Plus, allowing you to update the BIOS without installing a CPU, memory, or graphics card. This is particularly useful for ensuring compatibility with newer processors. To use Q-Flash Plus:

1. Download the latest BIOS file from the GIGABYTE website and rename it to **GIGABYTE.bin**.
2. Copy the renamed BIOS file to the root directory of a USB flash drive (FAT32 format recommended).
3. Insert the USB flash drive into the designated Q-Flash Plus USB port on the rear I/O panel.
4. Connect the 24-pin ATX power connector and the 8-pin CPU power connector to the motherboard.
5. Press the Q-Flash Plus button. The QFLED will flash, indicating the BIOS update process has started. Wait until the QFLED stops flashing, which signifies the completion of the BIOS update.

4. MAINTENANCE

4.1 BIOS Updates

Regularly check the GIGABYTE website for new BIOS versions. Updating your BIOS can improve system

stability, add support for new hardware, and fix known issues. Always follow the instructions provided by GIGABYTE carefully when performing a BIOS update.

4.2 Cleaning

To ensure optimal performance and longevity, periodically clean your motherboard and PC case to remove dust buildup. Use compressed air to gently clear dust from fans, heatsinks, and other components. Ensure the system is powered off and unplugged before cleaning.

4.3 Software and Driver Updates

Keep your operating system, drivers, and GIGABYTE utilities updated to the latest versions. This helps maintain system security, performance, and compatibility.

5. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **No Power / No POST (Power-On Self-Test):**
 - Verify all power cables (24-pin ATX, 8-pin CPU) are securely connected.
 - Ensure the CPU and RAM are correctly seated.
 - Test with a single RAM stick in the recommended slot.
 - Clear CMOS (refer to motherboard manual for jumper location).
 - Consider using Q-Flash Plus to update the BIOS, especially if using a newer CPU that might not be supported by the factory BIOS version.
- **Memory Incompatibility / Instability with EXPO/XMP:**
 - Ensure your RAM is on the motherboard's Qualified Vendor List (QVL) for optimal compatibility.
 - Update the BIOS to the latest version, as memory compatibility often improves with BIOS updates.
 - If experiencing instability with EXPO/XMP profiles enabled, try running memory at default JEDEC speeds or manually adjusting timings and voltage.
- **Wi-Fi / Bluetooth Issues:**
 - Ensure Wi-Fi antennas are securely connected.
 - Install the latest Wi-Fi and Bluetooth drivers from the GIGABYTE website.
 - If issues persist after sleep mode (as reported by some users), a system restart may temporarily resolve it. Check for updated drivers or firmware for the Realtek Wi-Fi 6E module.
- **M.2 SSD / Chipset Overheating:**
 - Ensure adequate airflow within your PC case, especially in Mini-ITX builds.
 - Verify that any M.2 heatsinks are properly installed and making good contact with the SSD.
 - Monitor temperatures using system monitoring software. If temperatures remain high, consider alternative cooling solutions or relocating the M.2 SSD if an adapter to a PCIe slot is feasible and provides better cooling.

6. SPECIFICATIONS

Feature	Specification
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Brand	GIGABYTE
Model Name	A620I AX
CPU Socket	Socket AM5
Compatible Processors	AMD Ryzen 7000 Series Processors
Chipset Type	AMD A620
RAM Memory Technology	DDR5
Memory Slots	2 x SMD DIMMs
Max Memory Capacity	64 GB
Memory Clock Speed	Up to 2133 MHz (JEDEC), supports higher via EXPO/XMP
Wireless Type	Wi-Fi 6E 802.11ax
LAN	Realtek 2.5GbE LAN
PCIe Slots	1 x PCIe 4.0 x16 slot with EZ-Latch
M.2 Connectors	1 x PCIe 4.0 x4 M.2 connector
USB Ports (Rear)	USB 3.2 Gen1 Type-C, USB 3.2 Gen1 Type-A, USB 2.0
Form Factor	Mini-ITX
Dimensions (LxWxH)	8.74 x 7.09 x 2.56 inches
Item Weight	2 pounds
Supported Platforms	Windows 10, Windows 11

7. WARRANTY INFORMATION

The GIGABYTE A620I AX motherboard comes with a **5-Year Warranty**. For detailed terms, conditions, and warranty claim procedures, please refer to the official GIGABYTE website or contact their customer support directly. Keep your proof of purchase for warranty validation.

8. SUPPORT

For further assistance, including driver downloads, BIOS updates, FAQs, and technical support, please visit the official GIGABYTE support website:

[GIGABYTE Official Website](#)

You may also contact GIGABYTE customer service for specific inquiries.

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独自機能 (AMD 800 シリーズ) <table><tr><td>GIGABYTE Control Center</td><td>2</td></tr><tr><td>1.1 RGB Fusion</td><td>4</td></tr><tr><td>1.2 FAN Control</td><td>4</td></tr><tr><td>1.3 Smart Backup</td><td>5</td></tr></table> BIOS 설정 - 메인 화면 <table><tr><td>2.1 Q-Flash</td><td>6</td></tr><tr><td>2.2 Q-Flash Plus</td><td>6</td></tr></table> GIGABYTE is a registered trademark of GIGABYTE Technology Co., Ltd. All rights reserved. GIGABYTE Technology Co., Ltd. is not responsible for any damage or loss caused by the use of the product. For more information, please visit GIGABYTE website.	GIGABYTE Control Center	2	1.1 RGB Fusion	4	1.2 FAN Control	4	1.3 Smart Backup	5	2.1 Q-Flash	6	2.2 Q-Flash Plus	6	GIGABYTE Control Center GIGABYTE Control Center (GCC) PerformanceSmart Backup RGB Fusion Q-FlashQ-Flash Plus FAN Control BIOS
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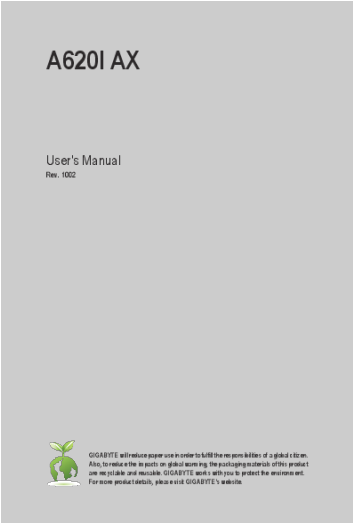
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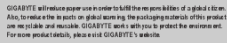
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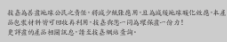
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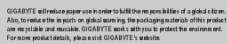
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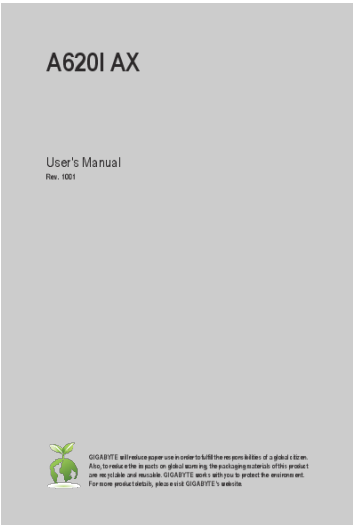


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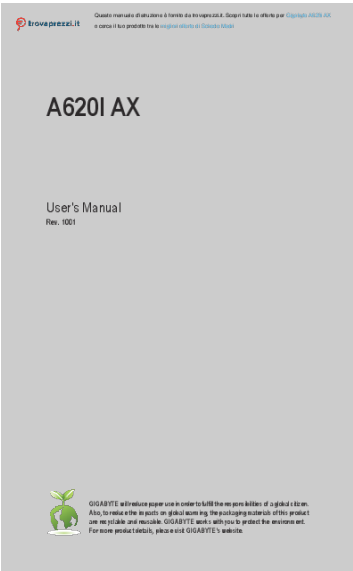
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Compliance Information Product Name: Motherboard Trade Name: GIGABYTE Model
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