

GIGABYTE B850M AORUS ELITE WIFI6E ICE

GIGABYTE B850M AORUS Elite WIFI6E ICE Motherboard User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the GIGABYTE B850M AORUS Elite WIFI6E ICE motherboard. Designed for AMD AM5 processors, this mATX motherboard offers advanced features including DDR5 memory support, PCIe 5.0, and integrated Wi-Fi 6E. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.

2. PRODUCT OVERVIEW

2.1 Key Features

- **AMD Socket AM5:** Supports AMD Ryzen 9000, Ryzen 8000, and Ryzen 7000 Series Processors.
- **DDR5 Compatibility:** Features 4 DIMM slots supporting high-speed DDR5 memory up to 8200 MT/s and up to 256 GB capacity.
- **Robust Power Design:** 12+2+2 Twin Digital VRM Design for stable power delivery.
- **Advanced Thermals:** Equipped with VRM and M.2 Thermal Guards for efficient heat dissipation.
- **High-Speed Connectivity:** Includes PCIe 5.0 slot, 2x M.2 slots, USB-C, Wi-Fi 6E, and 2.5GbE LAN.
- **User-Friendly Design:** Features EZ-Latch for M.2 SSDs and PCIe slots, and Q-Flash Plus for BIOS updates without CPU or RAM.



The GIGABYTE B850M AORUS Elite WIFI6E ICE motherboard shown alongside its retail packaging, highlighting its white aesthetic and key features.

X3D TURBO MODE
Enhance Up to
18%
*Differences in performance enhancement depending on the game.

PCIe UP SLOT
1.7X
Stronger shearing test
3.2X
Stronger retention force test
Reduced Signal Degradation with SMD Technology

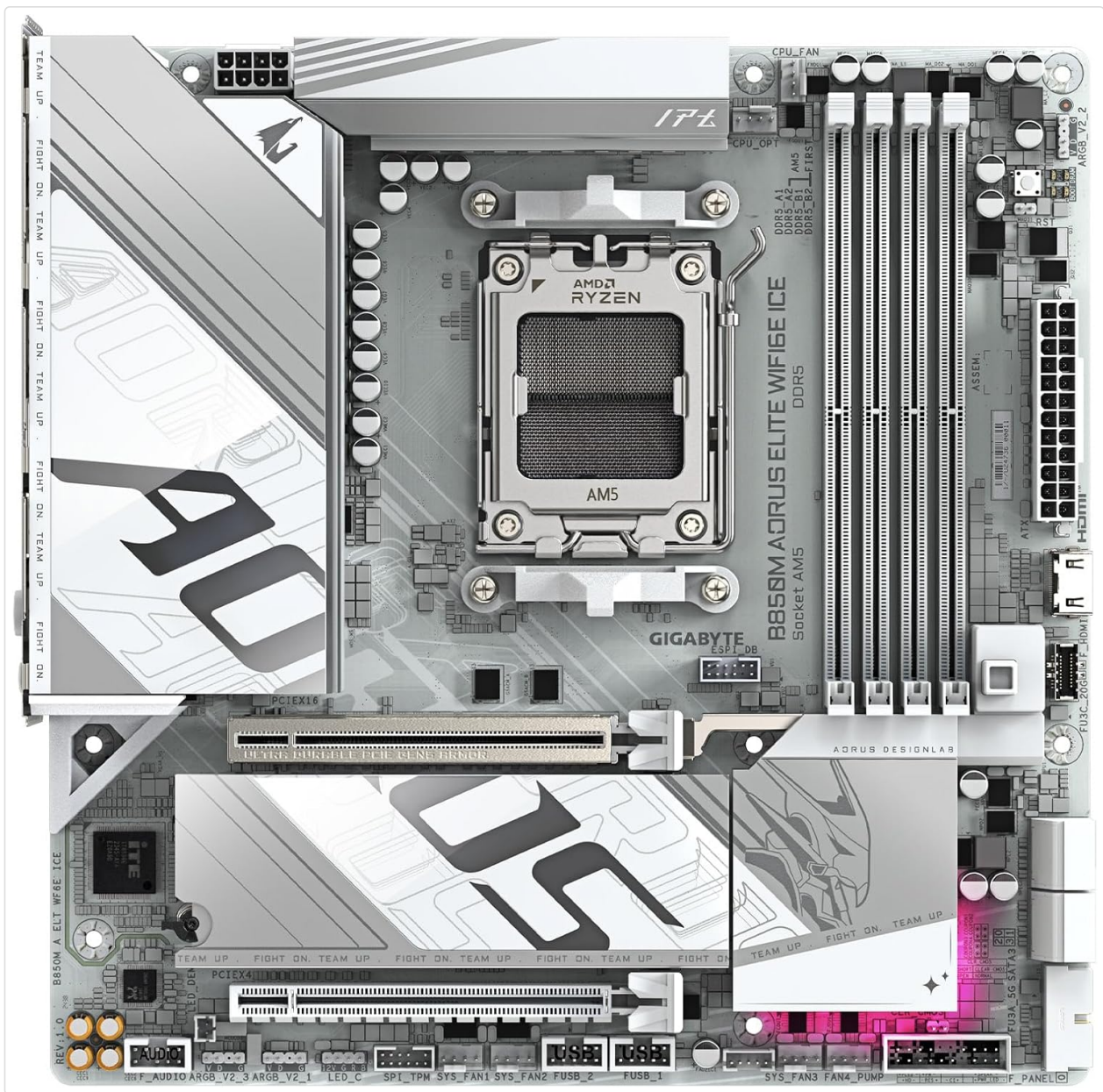
COMPREHENSIVE THERMAL
Level Up Epic VRM heatsinks for non-stop gaming
4X
Massive cooling surface with exceptional heat dissipation
5 W/MK
Thermal pad for efficient thermal conductivity

COLLABORATIVE COMPUTING
UC BIOS
Restructured with user-centered and intuitive performance adjustment mechanisms
Multi-Theme
Multiple BIOS skin with newly exclusive grayscale mode
AIO FAN CONTROL
Adjust AIO fan speed in the BIOS

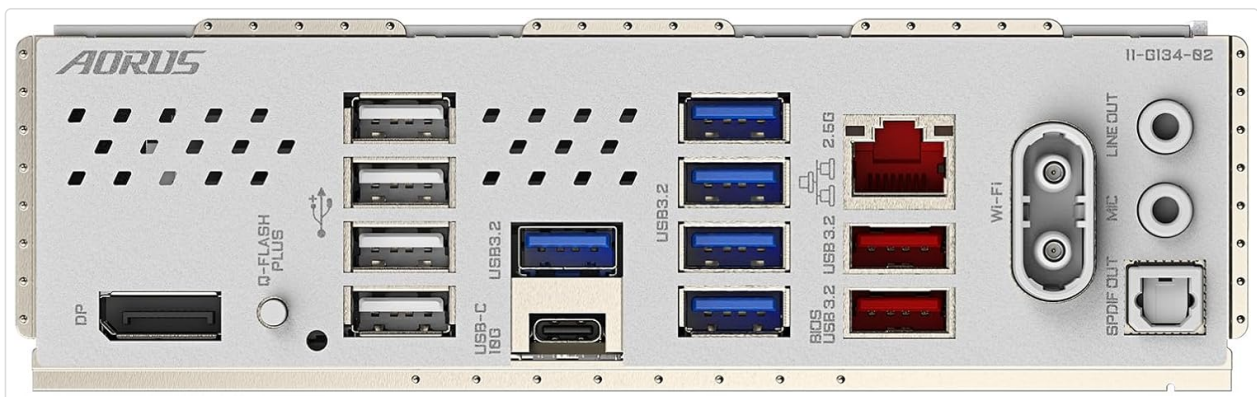
This image highlights performance features such as X3D Turbo Mode, M.2 Thermal Guard, Twin Digital VRM Design (12+2+2), AI Overclocking, DDR5 support up to 8200 MT/s, DIMM sockets supporting up to 256 GB, HDMI 2.1, DisplayPort 1.4, and Wi-Fi 6E.

2.2 Component Layout

Familiarize yourself with the motherboard's layout to facilitate proper installation. Key areas include the CPU socket, DIMM slots, PCIe slots, M.2 slots, and various headers.



An overhead view of the motherboard, detailing the CPU socket, PCIe slots, and M.2 slots with their thermal guards.



A detailed view of the rear input/output panel, showing USB ports, LAN, Wi-Fi antenna connectors, and audio jacks.

3. INSTALLATION AND SETUP

3.1 Before You Begin

Ensure you have a clean, static-free workspace. Gather necessary tools including a Phillips head screwdriver, thermal paste, and anti-static wrist strap. Refer to your PC case manual for specific mounting instructions.

3.2 CPU Installation

1. Locate the AM5 CPU socket on the motherboard.
2. Open the CPU retention lever and lift the load plate.
3. Carefully align the AMD Ryzen processor with the socket, ensuring the golden triangle on the CPU matches the triangle on the socket. Do not force the CPU into place.
4. Lower the load plate and secure it with the retention lever.
5. Apply thermal paste to the CPU and install your CPU cooler according to its manufacturer's instructions.

3.3 Memory (RAM) Installation

This motherboard supports DDR5 memory. For optimal performance, install memory modules in the recommended slots as indicated in the full user manual (typically A2 and B2 for dual-channel configuration).

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

3.4 M.2 SSD Installation

The motherboard features M.2 EZ-Latch for tool-less installation of M.2 solid-state drives.

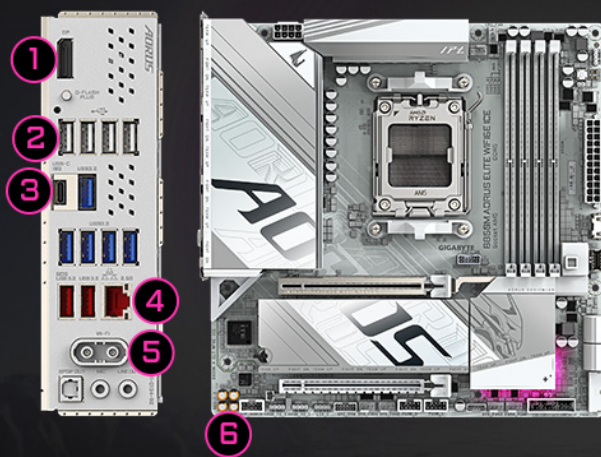
1. Locate the M.2 slots and remove the M.2 Thermal Guard if present.
2. Insert the M.2 SSD into the slot at an angle.
3. Push the SSD down until it is flat, then secure it using the EZ-Latch mechanism.
4. Reinstall the M.2 Thermal Guard to ensure proper cooling.

3.5 Graphics Card Installation

The primary PCIe x16 slot supports PCIe 5.0. The PCIe EZ-Latch Plus simplifies graphics card removal.

1. Open the retention clip on the PCIe x16 slot.
2. Align your graphics card with the slot and press down firmly until it is fully seated and the retention clip locks.
3. Secure the graphics card to your PC case with screws.

ALL-ROUND CONNECTIVITY



1 1 x DisplayPort

2 4 x USB 2.0

3 USB 3.2 Gen 2 Type-C

4 2.5 GbE LAN

5 WIFI EZ-Plug

6 Hi-Fi Audio

This image illustrates features designed for easy assembly, including M.2 EZ-Latch for tool-less SSD installation, PCIe EZ-Latch Plus for graphics card removal, WiFi EZ-Plug for antenna connection, and Q-Flash Plus for BIOS updates without a CPU or RAM.

3.6 Connecting Peripherals

Connect your power supply unit (PSU) cables to the motherboard's 24-pin ATX power connector and 8-pin CPU power connector. Connect front panel headers (power button, reset, USB, audio) according to the labels on the motherboard and your case manual. Attach Wi-Fi antennas to the rear I/O panel.

3.7 Initial Boot and BIOS/UEFI Configuration

After assembling your system, connect a monitor, keyboard, and mouse. Power on the system. Press the **DEL** key during startup to enter the BIOS/UEFI setup. Here you can configure boot order, enable XMP/EXPO for memory, and adjust other system settings. The Q-Flash Plus feature allows you to update the BIOS without installing a CPU, memory, or graphics card, which can be useful for compatibility with newer CPUs.

3.8 Driver Installation

After installing your operating system, install the necessary drivers. It is recommended to download the latest chipset drivers directly from AMD's website and other motherboard drivers (LAN, Wi-Fi, audio) from the GIGABYTE support page for your specific model. The GIGABYTE Control Center can assist with driver management and system utilities.

4. OPERATION

4.1 BIOS/UEFI Interface

The GIGABYTE UEFI BIOS provides an intuitive interface for system configuration. Navigate using a keyboard or mouse. Key sections include:

- **M.I.T.:** For overclocking and advanced frequency/voltage settings.
- **System Information:** Displays basic system details.

- **BIOS Features:** Boot options, security settings.
- **Peripherals:** Configuration of onboard devices.
- **Power Management:** Power-related settings.
- **Save & Exit:** Save changes and exit, or load optimized defaults.

4.2 GIGABYTE Control Center

GIGABYTE Control Center (GCC) is a unified software platform that allows you to monitor system status, update drivers, manage RGB lighting, and configure fan speeds within your operating system.

4.3 Overclocking Features

The B850M AORUS Elite WIFI6E ICE supports various overclocking features, including AI Overclocking and compatibility with AMD Ryzen Master software. Exercise caution when overclocking, as it may affect system stability and component lifespan. Always ensure adequate cooling.

5. MAINTENANCE

5.1 BIOS Updates

Regularly check the GIGABYTE website for BIOS updates. BIOS updates can improve system stability, add support for new hardware, and fix bugs. Use the Q-Flash utility within the BIOS to perform updates. Always follow the instructions provided by GIGABYTE carefully.

5.2 Driver Updates

Keep your system drivers updated for optimal performance and security. Check the GIGABYTE support page and AMD's official website periodically for the latest drivers for your motherboard's chipset, LAN, Wi-Fi, and audio components.

5.3 Physical Cleaning

Periodically clean your computer's interior to prevent dust buildup, which can lead to overheating and reduced performance. Use compressed air to remove dust from fans, heatsinks, and other components. Ensure the system is powered off and unplugged before cleaning.

6. TROUBLESHOOTING

6.1 Debug LEDs

The motherboard is equipped with debug LEDs (CPU, DRAM, VGA, BOOT) that illuminate to indicate the component causing a boot failure. If your system fails to POST, observe these LEDs to identify the problematic area.

- **CPU LED:** Indicates an issue with the CPU. Check CPU installation and power connections.
- **DRAM LED:** Indicates a memory issue. Reseat RAM modules or try one module at a time.
- **VGA LED:** Indicates a graphics card issue. Check card seating and power connections.
- **BOOT LED:** Indicates an issue with the boot device. Check storage drive connections and boot order in BIOS.

6.2 Common Issues and Solutions

- **System not booting:** Verify all power connections, CPU, RAM, and graphics card are properly seated.

Check debug LEDs.

- **No display:** Ensure monitor is connected to the graphics card (or integrated graphics if applicable) and powered on.
- **Slow file transfers/USB issues:** Ensure the latest AMD chipset drivers are installed directly from AMD's website, and update BIOS if necessary.
- **Wi-Fi/LAN not working:** Install the latest network drivers from the GIGABYTE website.

7. TECHNICAL SPECIFICATIONS

Feature	Specification
Brand	GIGABYTE
Series	B850M AORUS ELITE WIFI6E ICE
Model Number	B850M AORUS ELITE WIFI6E ICE
CPU Socket	Socket AM5
Compatible Processors	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series
Chipset Type	AMD B850
RAM Memory Technology	DDR5
Memory Speed	5200 MHz (Supports up to 8200 MT/s with overclocking)
Memory Storage Capacity (Max)	128 GB
PCIe Slots	PCIe 5.0
M.2 Slots	2x M.2 Slots
LAN	2.5GbE LAN
Wireless Connectivity	WIFI6E
USB Ports	USB-C, USB 3.2, USB 2.0
Form Factor	mATX
Product Dimensions (LxWxH)	9.6 x 9.6 x 1 inches
Item Weight	3.91 pounds
Color	Snow White
Platform	Windows 11

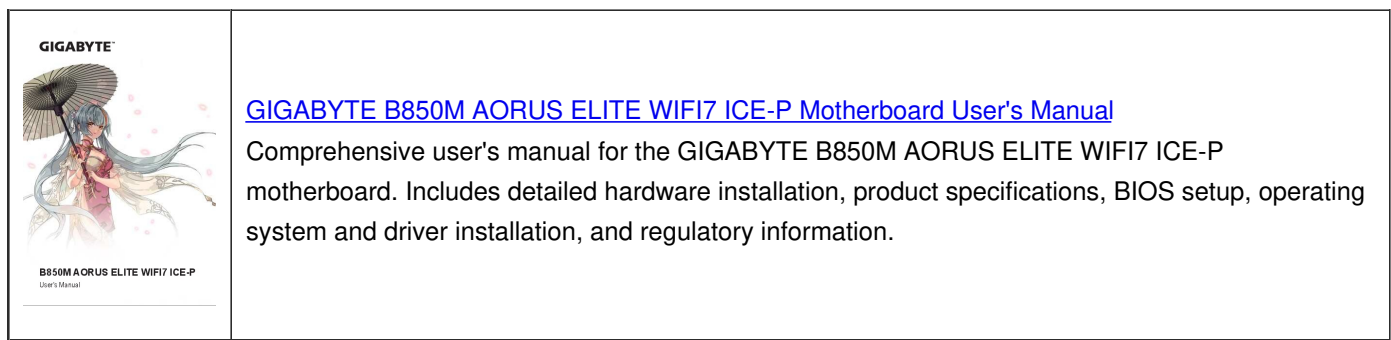
8. WARRANTY AND SUPPORT

The GIGABYTE B850M AORUS Elite WIFI6E ICE motherboard comes with a 5-year warranty. For technical support, driver downloads, BIOS updates, and further assistance, please visit the official GIGABYTE website. Ensure you have your product model number and serial number ready when contacting support.

For detailed warranty terms and conditions, refer to the warranty information provided with your product or on the GIGABYTE official website.

Related Documents - B850M AORUS ELITE WIFI6E ICE

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Documents - GIGABYTE – B850M AORUS ELITE WIFI6E ICE

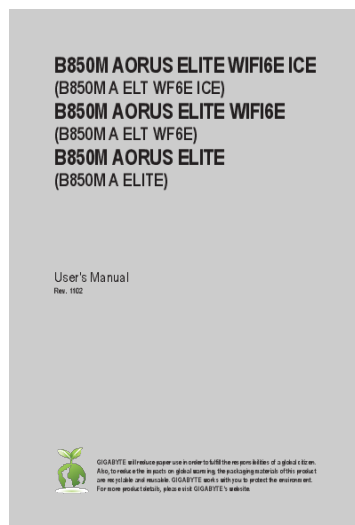


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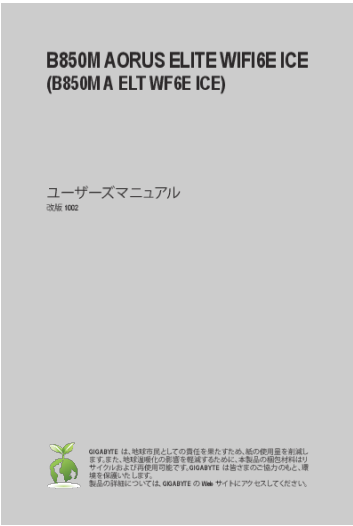


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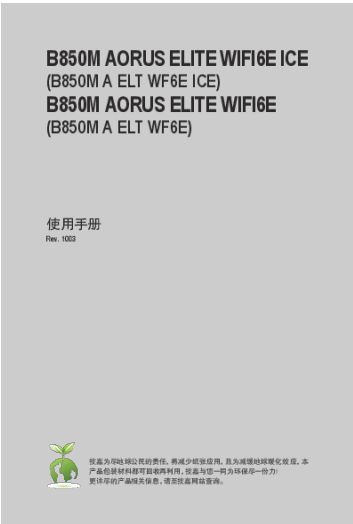
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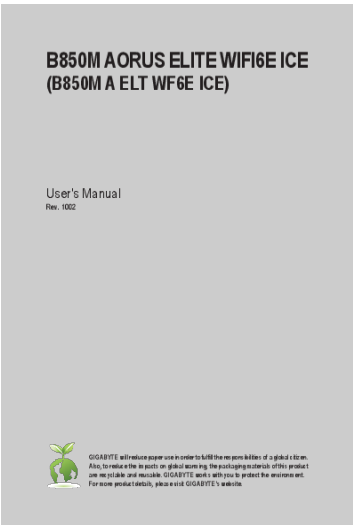
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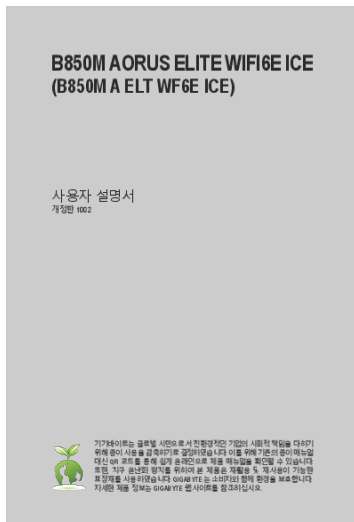
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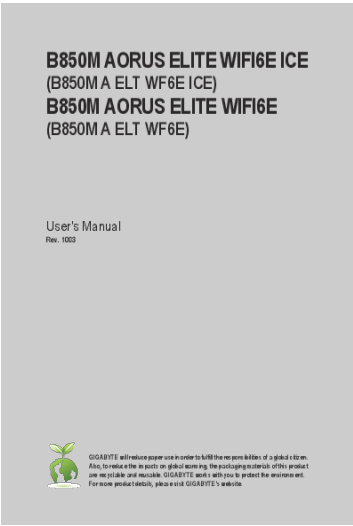
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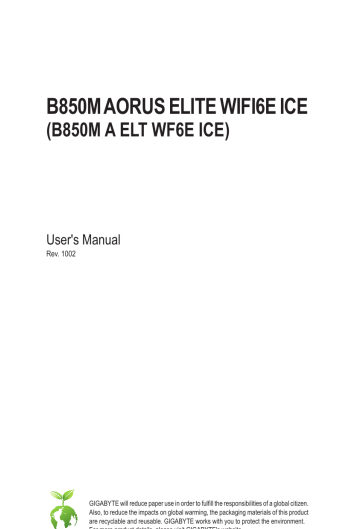
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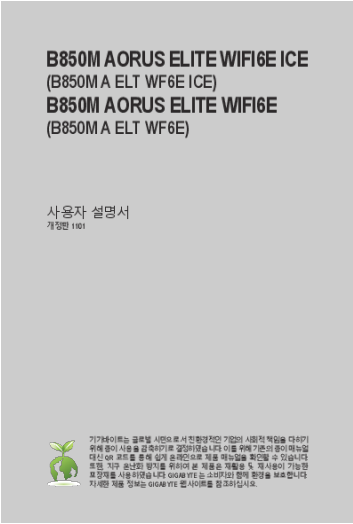
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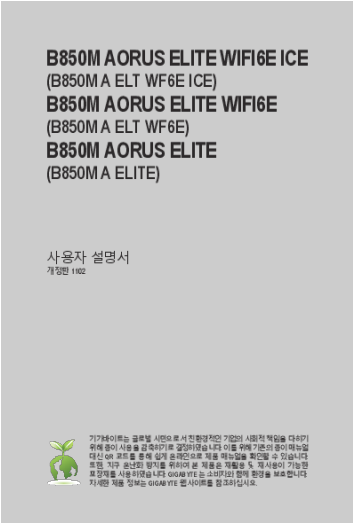
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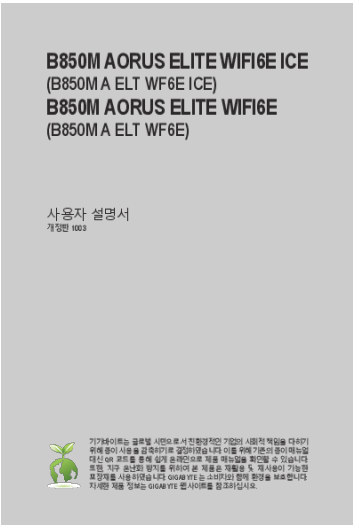


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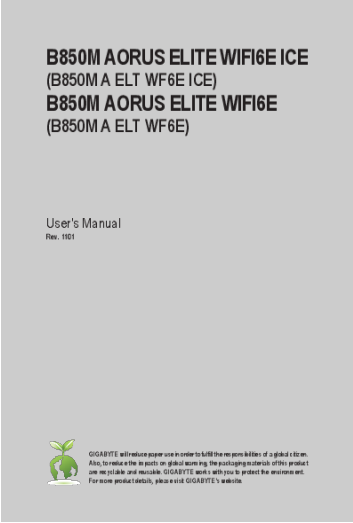
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lang:i-klnglon **score:46** filesize: 16.32 M page_count: 40 document date: 2025-02-19



[\[pdf\]](#) User Manual Installation Guide Specifications Guide

Instrukcja obsługi GIGABYTE B850M AORUS Elite WIFI6E ICE od PLN 844 42 2025 Porównanie cen Cenowarka Polska b795a9b4459f5af5e205ad1185e363043cbb gzhls at blob ldb a 9 3 |||
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独自機能 (AMD 800 シリーズ)

GIGABYTE Control Center	2
1.1 RGB Fusion	4
1.2 FAN Control	5
1.3 Performance	6
1.4 Smart Backup	7
BIOS 更新ユーティリティ	9
2.1 Q-Flash ユーティリティで BIOS を更新する	9
2.2 Q-Flash Plus を使用する	10

 マザーボードのモデルと BIOS バージョンによってソフトウェアサポートは異なる場合があります。ソフトウェアのサポート範囲は、マザーボードの BIOS 更新ガイドを参照してください。

[GIGABYTE Control Center](#)

GIGABYTE Control Center (GCC) RGB Fusion FAN Control Performance Smart Backup Q-Flash Q-Flash Plus BIOS

lang:en score:37 filesize: 2.25 M page_count: 12 document date: 2025-08-20

특장점 (AMD 800 시리즈)

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2.2 Q-Flash Plus 사용	10

 지능적인 설계 소프트웨어는 메인보드 모델과 BIOS 버전의 차이로 인해 다를 수 있습니다. 소프트웨어의 사용 방법은 참조하십시오.

[GIGABYTE Control Center and BIOS Utilities Guide for AMD 800 Series Motherboards](#)

A comprehensive guide detailing the features and usage of GIGABYTE Control Center (GCC) for managing system functions like RGB lighting, fan speeds, performance tuning, and data backup. It also covers BIOS update procedures using Q-Flash and Q-Flash Plus for GIGABYTE motherboards with AMD 800 series chipsets.

lang:en score:37 filesize: 2.25 M page_count: 12 document date: 2025-08-20

产品功能介绍 (AMD 800 系列)

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2.2 如何使用 Q-Flash Plus	10

 实际支持的软件包不同的品牌及操作系统的兼容性，软件设置请参照使用手册。

[AMD 800 : GIGABYTE Control Center BIOS](#)

AMD 800 GIGABYTE Control Center , RGB Fusion FAN Control Performance Smart Backup, Q-Flash Q-Flash Plus BIOS

lang:en score:37 filesize: 2.29 M page_count: 12 document date: 2025-08-20

獨特功能介紹 (AMD 800 系列)

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BIOS 更新方法介紹	9
2.1 如何透過 Q-Flash 更新 BIOS	9
2.2 如何透過 Q-Flash Plus	10

實作不同的軟體在不同的機種及作業系統內有差異，軟體設定畫面僅供參考。

GIGABYTE Control Center AMD 800 BIOS

GIGABYTE Control Center (GCC) RGB Fusion AMD 800
BIOS Q-Flash Q-Flash Plus
lang:es score:37 filesize: 2.47 M page_count: 12 document date: 2025-08-20

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Boot(부팅)	23
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이 문서에 설명된 BIOS 설정 메뉴는 사용자의 메인보드의 설정과 다를 수 있습니다. 실제 BIOS 설정 메뉴는 용인된 사용자 버전의 BIOS 레전에 따라 다릅니다.

GIGABYTE AMD 800 BIOS

AMD 800 GIGABYTE BIOS . BIOS , , Smart Fan, Tweaker, Settings, , / .
lang:af score:37 filesize: 5.03 M page_count: 26 document date: 2025-08-22

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このセッションで説明した BIOS セットアップメニューは、マザーボードによって異なる場合があります。表示される実際の BIOS セットアップオプションは、お使いのマザーボードおよび BIOS バージョンによって異なります。

- 1 -

[GIGABYTE BIOS \(AMD 800 \)](#)

GIGABYTE AMD 800 BIOS

lang:en **score:37** filesize: 5.01 M page_count: 26 document date: 2025-08-22

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[AMD 800 RAID](#)

GIGABYTE AMD 800 RAID . BIOS , RAID ,

lang:nl **score:37** filesize: 1.76 M page_count: 8 document date: 2025-08-21

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此說明所述之 BIOS 設定及設定程序，可能會與主機板不同。請注意主機板的 BIOS 版本。

- 1 -

[GIGABYTE AORUS Motherboard BIOS Guide for AMD 800 Series](#)

Comprehensive guide to configuring BIOS settings on GIGABYTE AORUS motherboards with AMD 800 series chipsets, covering advanced and easy modes, fan control, system information, boot options, and saving configurations.

lang:nl **score:37** filesize: 5.32 M page_count: 26 document date: 2025-08-22

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AMD 800 RAID

AMD 800 RAID , BIOS RAIDXpert2

lang:en score:37 filesize: 1.74 M page_count: 8 document date: 2025-08-21

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RAID (AMD 800)

AMD 800 GIGABYTE RAIDXpert2 RAID BIOS

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(B850M A ELT WF6E ICE)

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(B850M A ELITE)

使用手册
Rev. 1102

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guide_800series.pdf djhttps://www.gigaby...

lang:i-klngon score:36 filesize: 16.8 M page_count: 42 document date: 2025-04-23



Gigabyte GA-B850M AORUS EL WIFI6 ICE, DDR5, AM5

Kategorija: [Matične ploče](#)
Dostavljivost: **predvidena dostava 05.06.2023**
Šifra: 171654

Cijena: 280,00€

Brend: giga
Starje: NOVO
Zalibar: Na skladišču

Kratok opis

Model	B850M AORUS ELITE WIFI6 ICE
Podržani procesori	AMD Socket AM5
Chipset	AMD B850
Memorija	4 x DDR5 DIMM do 256 GB
Audio	Realtek® Audio CODEC
LAN	Realtek® 2.5GbE LAN chip Realtek® Wi-Fi 6E RTL8852CE
Ostalo	Više detalja o proizvodu možete posjetiti ovdje .

建構磁碟陣列(AMD 800 系列)

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A. 安裝作業系統.....	7
B. 重灌燒錄碟片.....	7

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Gigabyte GA B850M AORUS EL WIFI6 ICE DDR5 AM5 ponudba izdelka Hardware hr ELITE WIFI6E
Podržani procesori AMD Socket Chipset B850 Memorija 4 x DIMM do 256 GB Audio Realtek® CODEC
LAN gigabyte ga b850m aorus el wifi6 ice ddr5 am5 hardware 1 |||

Datum: 29.05.2025 slika je simbolicka Brend: giga Stanje: NOVO Zaliha: Na skladistu
INFOS PROMOTI ... ra: 171654 Cijena: 280,00 Kratak opis Model Podrzani procesori
Chipset Memorija Audio LAN Ostalo **B850M AORUS ELITE WIFI6E ICE** AMD Socket
AM5 AMD B850 4 x DDR5 DIMM do 256 GB Realtek Audio CODEC Rea...

lang:pt score:34 filesize: 181.99 K page count: 1 document date: 2025-05-29

GIGABYTE RAID AMD 800

GIGABYTE AMD 800 RAID BIOS RAIDXpert2

lang:nl score:34 filesize: 1.85 M page count: 8 document date: 2025-08-21

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(B850M A ELT WF6E ICE)

Uporabniški priročnik
Rev. 1002

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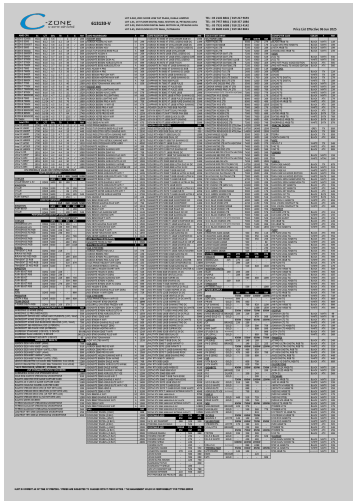
B850M AORUS ELITE WIFI6E ICE E misija Samo modul GC TPM2 0 SPI V2 1 x 24 polni ATX glavni napajalni priključek glava sistemskega ventilatorja črpalke za vodno hlajenje 2 USB 1 B850 A Elite Wifi navodila cdn e si |||

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A screenshot of a C-ZONE price list document. The document features a large table with multiple columns containing product names, specifications, and prices. The C-ZONE logo is visible in the top left corner, and the document is dated June 2025.

[C-ZONE Computer Hardware and Accessories Price List](#)

C-ZONE offers a comprehensive selection of computer hardware and accessories, catering to all your tech needs. From the latest CPUs and GPUs to essential peripherals and networking solutions, C-ZONE provides quality products with competitive pricing. Updated June 2025.

lang:i-klngon **score:16** filesize: 636.31 K page_count: 2 document date: 2025-06-06