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GIGABYTE B850I AORUS PRO

GIGABYTE B850I AORUS PRO AMD AM5 Mini-ITX Motherboard User Manual

Model: B850I AORUS PRO

1. INTRODUCTION

This manual provides detailed instructions for the installation, configuration, operation, and maintenance of your GIGABYTE B850I AORUS PRO AMD AM5 Mini-ITX Motherboard. Please read this manual thoroughly before installing or using the product to ensure correct operation and to prevent damage.

2. PRODUCT OVERVIEW

The GIGABYTE B850I AORUS PRO is a high-performance Mini-ITX motherboard designed for AMD AM5 processors. It supports AMD Ryzen 9000, 8000, and 7000 Series Processors, offering advanced features for computing enthusiasts. Key features include DDR5 memory support, PCIe 5.0 connectivity, dual M.2 slots, USB-C, WIFI7, and 2.5GbE LAN.





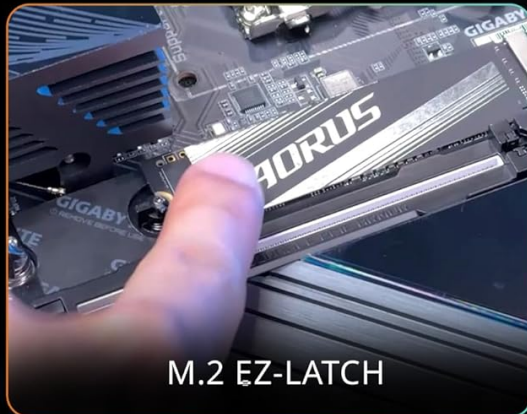
Image: Overview of the GIGABYTE B850I AORUS PRO Motherboard highlighting key features such as X3D Turbo Mode, DDR5 Bionic Cors, and WiFi 7.

Key Features:

- **AMD Socket AM5:** Supports AMD Ryzen 9000 / Ryzen 8000 / Ryzen 7000 Series Processors.
- **DDR5 Compatible:** Two DIMM slots supporting up to 128GB of DDR5 memory.
- **Power Design:** Robust 8+2+1 phase power delivery with 80A Smart Power Stage.
- **Thermals:** Equipped with VRM and M.2 Thermal Guards for efficient heat dissipation.
- **Connectivity:** Features PCIe 5.0, two M.2 Slots, USB-C, WiFi7, and 2.5GbE LAN.
- **EZ-Latch:** User-friendly M.2 EZ-Latch and PCIe EZ-Latch Plus for simplified component installation.
- **Q-Flash Plus:** Allows BIOS updates without installing CPU, memory, or graphics card.

EASY & FRIENDLY

Hassle-free Assembly



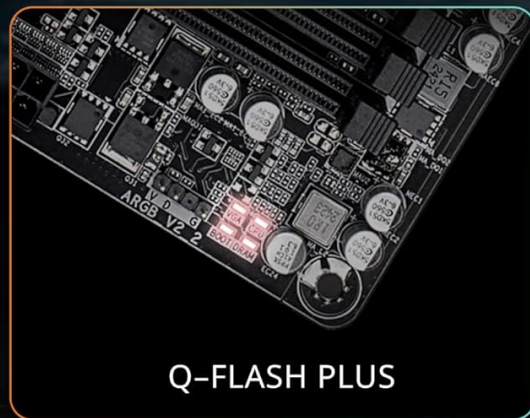
M.2 EZ-LATCH



PCIe EZ-LATCH PLUS



WIFI EZ-PLUG



Q-FLASH PLUS

Image: Performance features including X3D Turbo Mode, M.2 Thermal Guard, Twin Digital VRM Design, AI Overclocking, DDR5 support, HDMI 2.1, and Wi-Fi 6E.

3. SETUP AND INSTALLATION

Before beginning installation, ensure your system is powered off and unplugged from the wall outlet. Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage to components.

3.1. CPU Installation

1. Locate the AMD AM5 (LGA 1718) socket on the motherboard.
2. Open the CPU socket lever and remove the protective cover.
3. Carefully align the CPU with the socket, ensuring the golden triangle on the CPU matches the triangle on the socket.
4. Gently place the CPU into the socket without applying force.
5. Close the CPU socket lever to secure the CPU in place.
6. Install the CPU cooler according to its manufacturer's instructions.

3.2. Memory (RAM) Installation

1. Locate the two DDR5 DIMM slots.
2. Open the clips at both ends of the DIMM slot.
3. Align the notch on the DDR5 memory module with the key in the DIMM slot.
4. Insert the memory module firmly into the slot until the clips snap into place.

3.3. Storage (M.2 SSD) Installation

The motherboard features two M.2 slots for NVMe SSDs, supporting PCIe 5.0. Utilize the M.2 EZ-Latch for tool-less installation.

1. Locate the M.2 slots on the motherboard.
2. Remove the M.2 Thermal Guard heatsink if present.
3. Insert the M.2 SSD into the slot at an angle.
4. Push down the M.2 SSD and secure it with the M.2 EZ-Latch mechanism.
5. Reinstall the M.2 Thermal Guard heatsink for optimal cooling.

3.4. Graphics Card Installation

The motherboard includes a PCIe 5.0 x16 slot. Use the PCIe EZ-Latch Plus for easy removal.

1. Locate the PCIe 5.0 x16 slot.
2. Align your graphics card with the slot and press it down firmly until it clicks into place.
3. Secure the graphics card to your chassis with screws.



Image: Easy and friendly assembly features including M.2 EZ-Latch, PCIe EZ-Latch Plus, WiFi EZ-Plug, and Q-Flash Plus.

3.5. Power Connections

1. Connect the 24-pin ATX main power connector from your power supply to the motherboard.
2. Connect the 8-pin CPU power connector (EPS 12V) to the motherboard.

3.6. Front Panel and Rear I/O Connections

Connect your chassis' front panel connectors (power button, reset button, USB ports, audio jacks) to the corresponding headers on the motherboard. Refer to the motherboard layout diagram for exact locations.



Image: Rear I/O panel of the GIGABYTE B850I AORUS PRO Motherboard, showing various ports including USB, HDMI, LAN, and audio jacks.

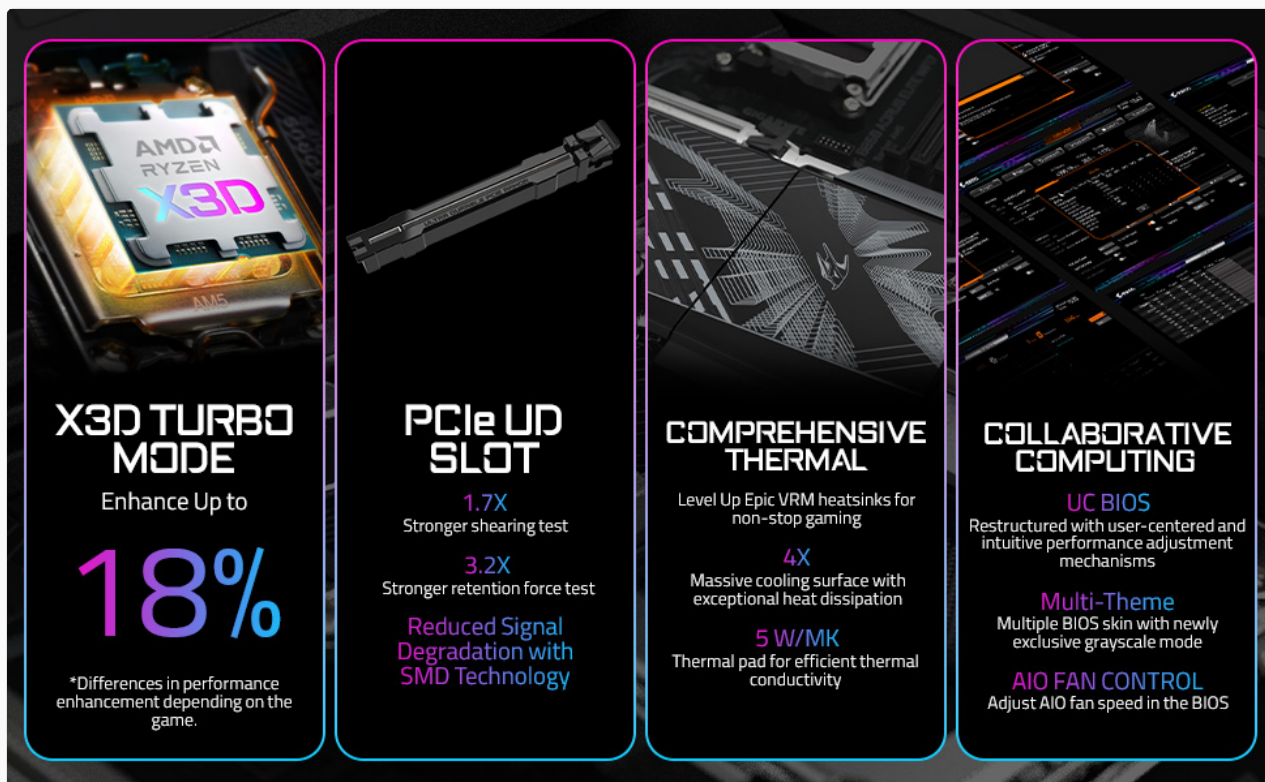


Image: Detailed view of the rear connectivity, numbering ports for 2x USB 2.0, 1x HDMI, 1x USB 3.2 Gen 2 Type-C, 1x 2.5 GbE LAN, and WiFi EZ-Plug.

4. OPERATING INSTRUCTIONS

4.1. Initial Boot-Up

1. After all components are installed and connected, plug in the power cord and turn on your system.
2. The system should display the GIGABYTE splash screen.
3. Press the **DEL** key during boot-up to enter the BIOS/UEFI setup.

4.2. BIOS/UEFI Configuration

The GIGABYTE B850I AORUS PRO features UC BIOS, offering a user-centric and intuitive interface. Navigate using your keyboard or mouse.

- **System Information:** View CPU, memory, and BIOS version details.

- **Boot Options:** Configure boot order for your storage devices.
- **Peripherals:** Enable or disable integrated devices like LAN, audio, and USB controllers.
- **Tweaker:** Adjust CPU and memory frequencies, voltages, and timings for performance optimization.
- **Q-Flash Plus:** Use this utility within BIOS to update the BIOS firmware.
- **AIO Fan Control:** Adjust fan speeds for optimal cooling and noise levels.

4.3. Driver Installation

After installing your operating system, install the necessary drivers from the GIGABYTE support website or the included driver disk. Essential drivers include chipset, LAN, Wi-Fi, and audio drivers.

5. MAINTENANCE

5.1. Cleaning

- Regularly clean dust from your system components using compressed air.
- Ensure proper airflow within your PC case to prevent overheating.

5.2. BIOS Updates

Periodically check the GIGABYTE website for updated BIOS versions. BIOS updates can improve system stability, compatibility, and performance. Use the Q-Flash Plus utility for safe BIOS updates.

5.3. Driver Updates

Keep your system drivers updated to ensure optimal performance and compatibility with new software and hardware. Download the latest drivers from the official GIGABYTE support page.

6. TROUBLESHOOTING

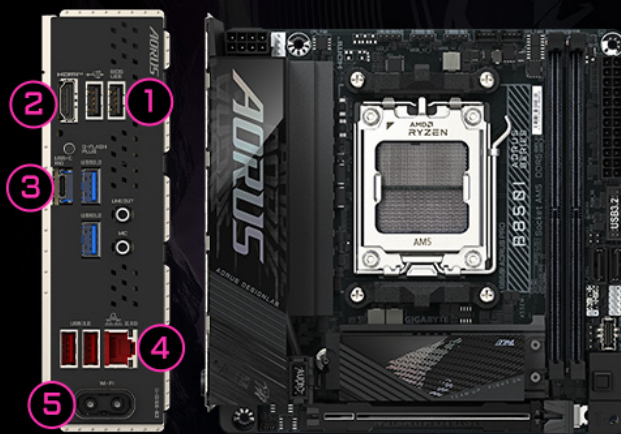
6.1. No Power / No Boot

- Verify all power cables (24-pin ATX, 8-pin CPU) are securely connected.
- Ensure the power supply is switched on and functioning correctly.
- Check front panel power button connection to the motherboard.

6.2. No Display Output

- Ensure your monitor is connected to the graphics card (if dedicated) or the motherboard's HDMI port (if using integrated graphics).
- Reseat the graphics card and memory modules.
- If available, check the EZ Debug Zone LEDs on the motherboard for diagnostic codes.

ALL-ROUND CONNECTIVITY



1 2 x USB 2.0

2 1 x HDMI

3 USB 3.2 Gen 2 Type-C

4 2.5 GbE LAN

5 WIFI EZ-Plug

Image: Features for easy assembly and diagnostics, including M.2 EZ-Latch, PCIe EZ-Latch, EZ Debug Zone, and Q-Flash Auto Scan.

6.3. Network Connectivity Issues

- For wired LAN, ensure the Ethernet cable is properly connected and the 2.5GbE LAN driver is installed.
- For Wi-Fi, ensure the Wi-Fi antenna is securely attached and the WIFI7 driver is installed.
- Check your router and internet connection.

6.4. BIOS Update Failure

If a BIOS update fails, the Q-Flash Plus feature allows you to recover or update the BIOS without a CPU, memory, or graphics card installed. Refer to the GIGABYTE website for detailed instructions on using Q-Flash Plus.

7. SPECIFICATIONS

Feature	Specification
Brand	GIGABYTE
Series	B850I AORUS PRO
Model Name	B850I AORUS PRO
CPU Socket	Socket AM5
Compatible Processors	AMD Ryzen 7000 Series, AMD Ryzen 8000 Series, AMD Ryzen 9000 Series
Chipset Type	AMD B850

Feature	Specification
RAM Memory Technology	DDR5
Memory Speed	5200 MHz (Supports higher via overclocking)
RAM Memory Maximum Size	128 GB
Product Dimensions (LxWxH)	6.7 x 6.7 x 1 inches (Mini-ITX)
Item Weight	2.8 pounds
Platform	Windows 11
Color	Matte Black

8. WARRANTY AND SUPPORT

The GIGABYTE B850I AORUS PRO Motherboard comes with a 5-year limited warranty. For detailed warranty terms and conditions, please refer to the official GIGABYTE website.

For technical support, driver downloads, BIOS updates, and further product information, please visit the official GIGABYTE support website:

[GIGABYTE Support Website](#)

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Related Documents - B850I AORUS PRO

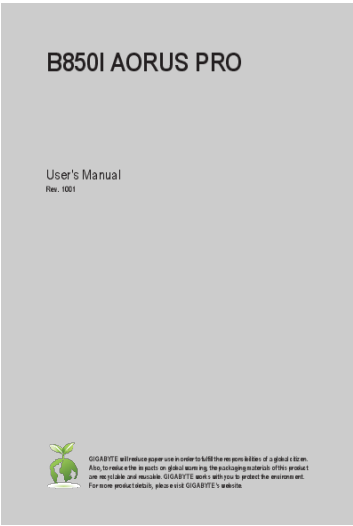
B850 AORUS ELITE WIFI7 ICE (B850 A ELITE WIFI ICE) B850 AORUS ELITE WIFI7 (B850 A ELITE WIFI) ユーザーズマニュアル B850I  GIGABYTE TECHNOLOGY CO., LTD. 2025. ALL RIGHTS RESERVED. GIGABYTE, AORUS, ELITE, WIFI7, ICE, AND B850I ARE TRADEMARKS OF GIGABYTE TECHNOLOGY CO., LTD. IN THE UNITED STATES AND OTHER COUNTRIES.	GIGABYTE B850 AORUS ELITE WIFI7 Motherboard Installation and User Guide Comprehensive guide for the GIGABYTE B850 AORUS ELITE WIFI7 motherboard, covering installation, component connections, BIOS setup, and features. Includes technical specifications and regulatory information.
B650M AORUS PRO AX B650M AORUS PRO B650M AORUS ELITE AX B650M AORUS ELITE User's Manual B650I  GIGABYTE TECHNOLOGY CO., LTD. 2025. ALL RIGHTS RESERVED. GIGABYTE, AORUS, ELITE, AX, AND B650M ARE TRADEMARKS OF GIGABYTE TECHNOLOGY CO., LTD. IN THE UNITED STATES AND OTHER COUNTRIES.	GIGABYTE B650M AORUS Motherboard User's Manual This user's manual provides comprehensive guidance for the GIGABYTE B650M AORUS PRO AX, B650M AORUS PRO, B650M AORUS ELITE AX, and B650M AORUS ELITE motherboards, covering installation, specifications, and setup.

B650 AORUS ELITE AX B650 AORUS ELITE User's Manual Rev. 1001 	GIGABYTE B650 AORUS ELITE AX / B650 AORUS ELITE User's Manual Comprehensive user's manual for the GIGABYTE B650 AORUS ELITE AX and B650 AORUS ELITE motherboards, detailing hardware installation, BIOS setup, driver installation, product specifications, and regulatory information.
B650I AX User's Manual Rev. 1001 	GIGABYTE B650I AX Motherboard User Manual Comprehensive user manual for the GIGABYTE B650I AX motherboard, covering hardware installation, product specifications, BIOS setup, operating system and driver installation, RAID configuration, and regulatory information.
B650I AORUS ULTRA User's Manual Rev. 1001 	GIGABYTE B650I AORUS ULTRA Mini-ITX Motherboard User Manual Comprehensive user manual for the GIGABYTE B650I AORUS ULTRA Mini-ITX motherboard, covering hardware installation, BIOS setup, operating system and driver installation, product specifications, and regulatory compliance for AMD Ryzen 7000 Series processors.
B840M AORUS ELITE WIFI6E (B840M A ELITE WIFI6E) 使用手册 Rev. 1001 	GIGABYTE B840M AORUS ELITE WIFI6E Motherboard Installation Guide Comprehensive installation guide for the GIGABYTE B840M AORUS ELITE WIFI6E motherboard, covering component installation, BIOS setup, RAID configuration, and regulatory information.

Documents - GIGABYTE – B850I AORUS PRO



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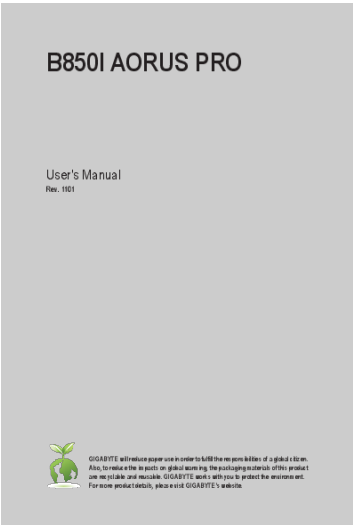


[\[pdf\]](#) Specifications

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RAID 구성 (AM5 시리즈)

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[RAID \(AM5 \)](#)

AMD AM5 RAID . RAID , , BIOS , RAID , GIGABYTE UEFI BIOS RAIDXpert2 RAID .

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[GIGABYTE AM5 Series RAID Configuration Guide](#)

A comprehensive guide on how to configure a RAID set on GIGABYTE AM5 series motherboards, covering BIOS setup, RAID array creation using RAIDXpert2, operating system installation with RAID drivers, and array rebuilding.

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[Building RAID Arrays \(AM5 Series\) - GIGABYTE Guide](#)

A comprehensive guide to building and configuring RAID arrays on GIGABYTE AM5 series motherboards, covering BIOS settings, RAIDXpert2 utility, driver installation, and array rebuilding.

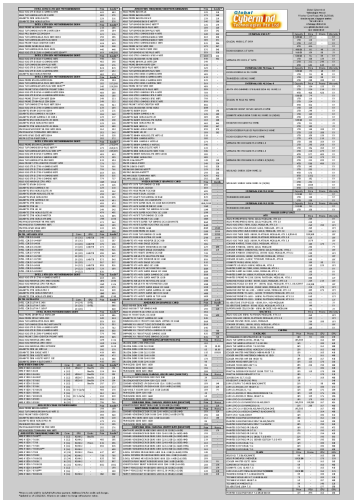
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lang:i-klngon **score:11** filesize: 1000.19 K page_count: 2 document date: 2025-03-12

[Intel and AMD Motherboards, CPUs, Graphics Cards, RAM, Storage, and Peripherals Price List](#)

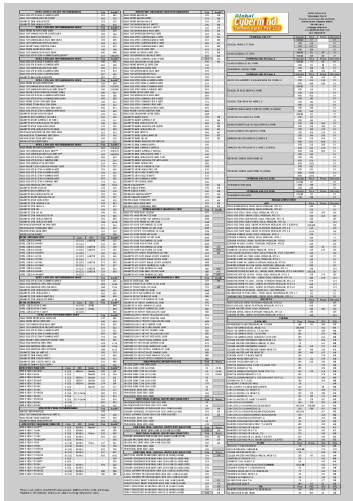
A comprehensive price list for Intel 10th to 14th Gen and Intel Ultra motherboards and CPUs, AMD Ryzen 5000, 7000, 8000, and 9000 series CPUs and motherboards. Also includes NVIDIA GeForce and AMD Radeon graphics cards, various types of RAM (SODIMM, DDR4, DDR5), internal SSDs (SATA, M.2 Gen 3, M.2 Gen 4, M.2 2242, M.2 2230), Power Supply Units (ATX, SFX/SFX-L), PC Casings (E-ATX/ATX, M-ATX, ITX), CPU Coolers (Air, Water), Case Fans, Routers, Adapters, Switches, IP Cameras, Webcams, Keyboards, Mice, Keyboard and Mouse Combos, Desktop Speakers, BT Speakers, Headsets, and Software (Microsoft Office, Windows). Prices are updated as of 07/03/2025 and subject to change.

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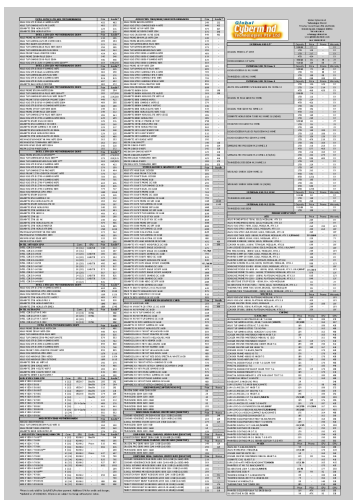
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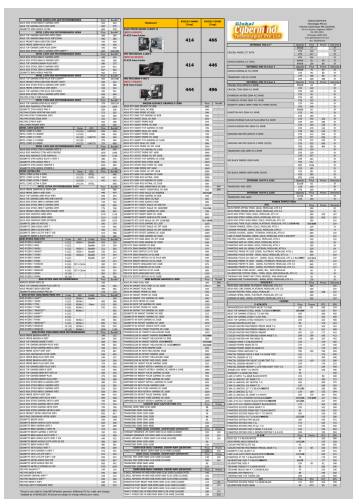
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lang:i-klngon **score:11** filesize: 1002.23 K page_count: 2 document date: 2025-05-09



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lang:de **score:11** filesize: 1.14 M page_count: 2 document date: 2025-06-06

Product Name	Specifications	Price
Intel Core i5-12400	12th Gen, 10 Cores, 16 Threads, 18MB Cache, 65W	129.00
ASUS ROG Strix Z690-A	LGA1700, DDR5, PCIe 5.0, 14 USB-A, 10 USB-C	299.00
MSI GeForce RTX 4070	12GB GDDR6X, 5888 CUDA Cores, 162 TFLOPS	549.00

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lang:fr **score:11** filesize: 1.24 M page_count: 2 document date: 2025-07-22

Product Name	Specifications	Price
Samsung 980 Pro 1TB	NVMe, PCIe 4.0, 7000 MB/s	119.00
Corsair Vengeance DDR5 32GB	5600MHz, CL36, 1.35V	159.00
ASUS ROG Zephyrus G16	16" 240Hz, Ryzen 9, RTX 4070, 16GB	1899.00

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lang:fr **score:11** filesize: 1.24 M page_count: 2 document date: 2025-08-13

Product Name	Specifications	Price
Intel Core i7-13700K	13th Gen, 16 Cores, 24 Threads, 30MB Cache, 125W	299.00
NVIDIA GeForce RTX 4080	12GB GDDR6X, 8960 CUDA Cores, 281 TFLOPS	699.00
ASUS ROG Maximus Z790	LGA1700, DDR5, PCIe 5.0, 14 USB-A, 10 USB-C	349.00

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