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## GIGABYTE TRX50 AERO D

# GIGABYTE TRX50 AERO D Motherboard User Manual

Comprehensive guide for installation, operation, and maintenance.

## 1. INTRODUCTION

The GIGABYTE TRX50 AERO D is an E-ATX motherboard designed for high-performance computing, supporting AMD Ryzen Threadripper PRO 7000 Series Processors. This motherboard integrates advanced features such as DDR5 memory support, PCIe 5.0 for both expansion slots and M.2 storage, dual USB4 Type-C ports, Wi-Fi 7, and Marvell 10GbE networking. It is engineered for content creators, enthusiasts, and AI professionals requiring robust stability and performance under demanding workloads.

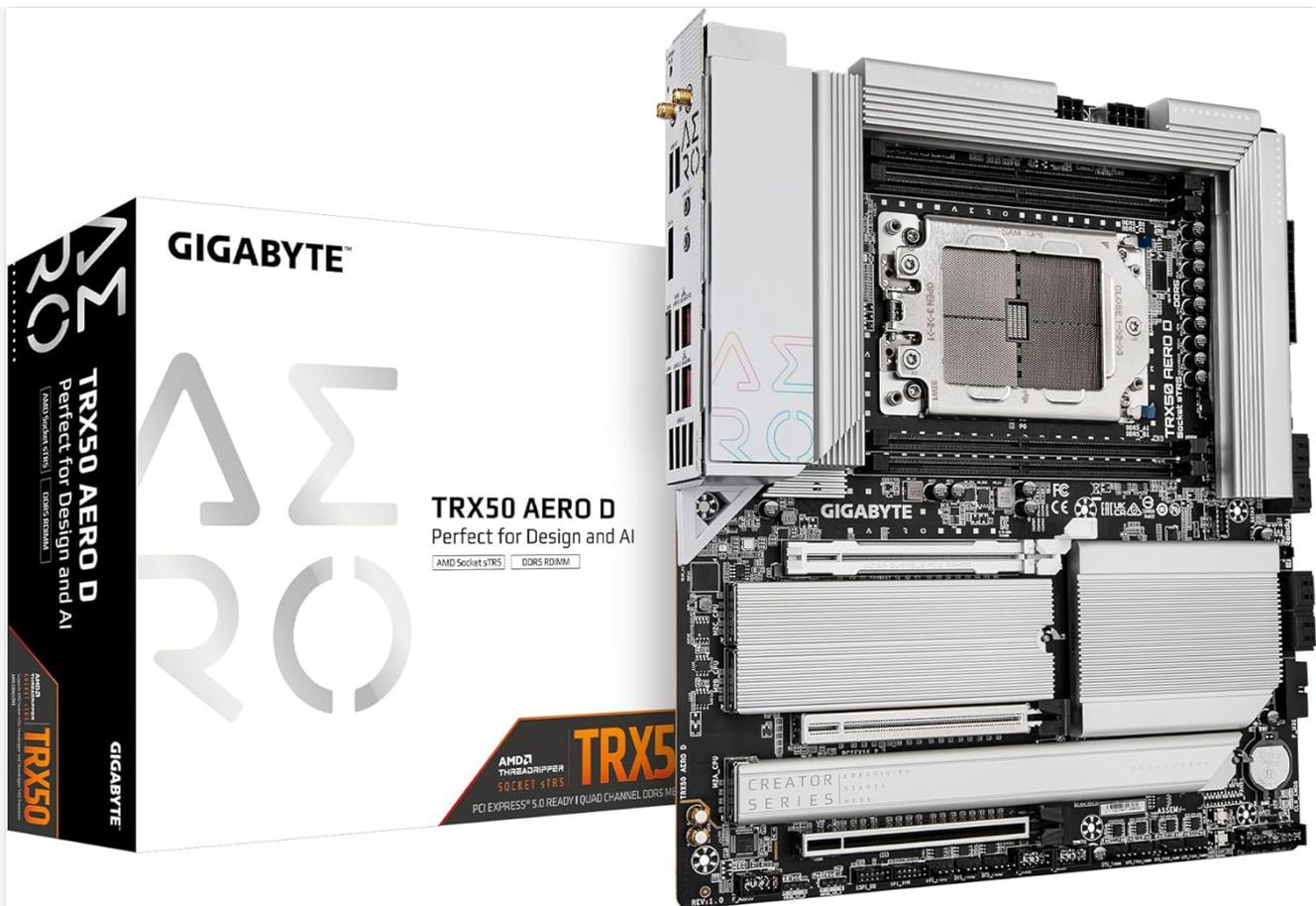


Figure 1: GIGABYTE TRX50 AERO D Motherboard and retail packaging.

## 2. KEY FEATURES

- **AMD sTR5 Socket:** Supports AMD Ryzen Threadripper PRO 7000 Series Processors.
- **Power Design:** 16+8+4 Phases Digital VRM Solution for stable power delivery.
- **DDR5 Compatible:** Four SMD R-DIMM slots with AMD EXPO & Intel XMP Support.
- **Advanced Thermal Design:** Features VRM Thermal Armor and M.2 Thermal Guard for efficient heat dissipation.
- **Next-Gen Connectivity:** Includes dual USB4 Type-C ports and PCIe 5.0 support.
- **EZ-Latch:** PCIe 5.0 & M.2 Connectors with a quick release and screwless design for easy installation.
- **Fast Networking:** Equipped with 10GbE + 2.5GbE Dual LAN and Wi-Fi 7 for high-speed network access.

## 3. SETUP AND INSTALLATION

This section provides general guidelines for installing the GIGABYTE TRX50 AERO D motherboard and its components. Always refer to the detailed instructions in your CPU, RAM, and other component manuals for specific installation steps.

### 3.1 Motherboard Layout

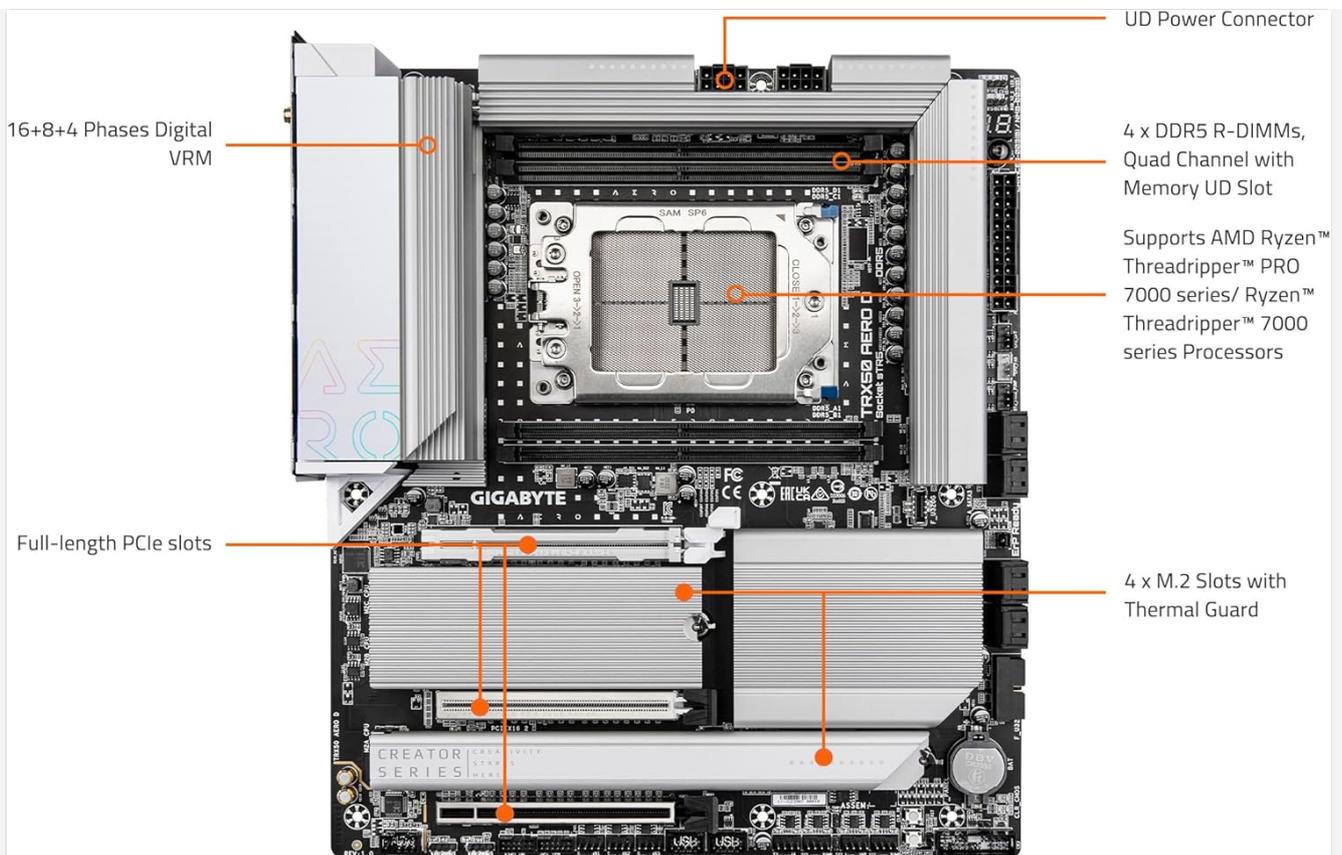


Figure 2: Labeled diagram of the GIGABYTE TRX50 AERO D Motherboard components.

### 3.2 CPU Installation (sTR5 Socket)

Carefully align your AMD Ryzen Threadripper PRO 7000 Series Processor with the sTR5 socket. Ensure the CPU is correctly oriented before gently lowering it into place. Follow the cooler manufacturer's instructions for installing the CPU cooler.

### 3.3 Memory (DDR5 R-DIMM) Installation

The motherboard supports four DDR5 R-DIMM modules. Insert the memory modules into the designated slots, ensuring they are fully seated until the clips on both ends lock into place. Refer to the motherboard manual for recommended memory configurations.

### 3.4 Storage (M.2 and SATA) Installation

The TRX50 AERO D features multiple M.2 slots with Thermal Guards. To install an M.2 SSD, remove the thermal guard, insert the SSD into the slot, and secure it using the EZ-Latch mechanism. Reattach the thermal guard. For SATA drives, connect the data and power cables to the appropriate ports.

### 3.5 Expansion Card (PCIe 5.0) Installation

Install PCIe expansion cards (e.g., graphics cards) into the available PCIe 5.0 slots. Ensure the card is firmly seated and secured with the case's retention mechanism. The EZ-Latch feature simplifies removal.

### 3.6 Power Connections

Connect the 24-pin ATX main power connector and the necessary CPU power connectors (e.g., 8-pin + 8-pin or 8-pin + 4-pin) from your power supply to the motherboard. Ensure all power connections are secure.

### 3.7 Rear I/O Panel Connections

Connect your peripherals to the rear I/O panel. This includes USB devices, Ethernet cables for 10GbE and 2.5GbE

LAN, Wi-Fi antennas, and audio devices.

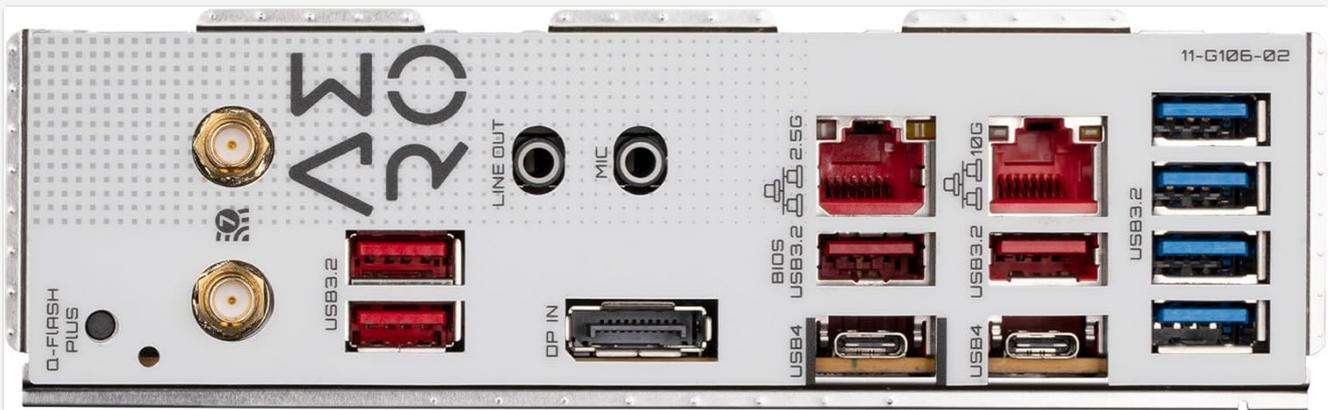


Figure 3: Rear I/O Panel of the GIGABYTE TRX50 AERO D Motherboard.

## 4. OPERATING INSTRUCTIONS

### 4.1 Initial Boot and BIOS Access

After assembling your system, power it on. During the boot process, press the designated key (usually DEL or F2) to enter the BIOS/UEFI setup. Here you can configure system settings, boot order, and monitor hardware status. It is recommended to load optimized defaults after a BIOS update or initial setup.

### 4.2 Driver Installation

After installing your operating system, install the necessary drivers for the motherboard components. It is recommended to download the latest chipset drivers directly from the AMD website and other specific drivers (e.g., LAN, Wi-Fi, Audio) from the official GIGABYTE support page for your motherboard model to ensure optimal performance and compatibility.

## 5. MAINTENANCE

### 5.1 BIOS Updates

GIGABYTE periodically releases BIOS updates to improve system stability, compatibility, and performance. Use the Q-Flash utility (accessible via BIOS) or GIGABYTE's dedicated software to update the BIOS. Always follow the instructions provided by GIGABYTE carefully during the update process.

### 5.2 System Cleaning

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

## 6. TROUBLESHOOTING

This section addresses common issues you might encounter with the GIGABYTE TRX50 AERO D motherboard.

- **Long Boot Times / Inconsistent POST:** Some users have reported extended boot times or inconsistent Power-On Self-Test (POST) behavior. Ensure your BIOS is updated to the latest version. Clearing CMOS (Complementary Metal-Oxide-Semiconductor) and loading optimized defaults in BIOS can sometimes resolve these issues. Verify all components are correctly seated.

- **Memory Incompatibility:** If the system fails to boot or recognize DDR5 modules, update the BIOS using Q-Flash. Ensure memory modules are compatible with the motherboard and installed in the correct slots as per the manual.
- **Driver and Chipset Issues:** If devices are not recognized or function incorrectly, ensure you have installed the latest chipset drivers from the AMD website and other necessary drivers from the GIGABYTE support page.
- **Fan Speed Issues:** If fan speeds are erratic or excessively loud, check BIOS settings for fan curves and control modes. Ensure all fan headers are correctly connected. A BIOS update may also address fan control anomalies.
- **Hardware Malfunctions (e.g., R-DIMM slot, USB port):** In rare cases, individual components like R-DIMM slots or USB ports may be defective. If you suspect a hardware defect after thorough troubleshooting, contact GIGABYTE customer support for assistance or warranty service.

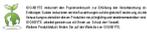
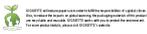
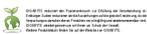
## 7. SPECIFICATIONS

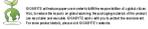
Feature	Specification
Brand	GIGABYTE
Series	TRX50 AERO D
Model Name	TRX50 AERO D
CPU Socket	sTR5
Compatible Processors	AMD Ryzen Threadripper PRO 7000 Series
Chipset Type	AMD TRX50
RAM Memory Technology	DDR5
RAM Memory Maximum Size	1000 GB
Number of USB 2.0 Ports	2 (internal headers)
Product Dimensions (LxWxH)	3.1 x 13.6 x 11.6 inches
Item Weight	4 pounds
Platform	Windows

## 8. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation included with your product or visit the official GIGABYTE website. If you encounter issues that cannot be resolved using the troubleshooting steps provided, please contact GIGABYTE customer support for further assistance. You can find contact details on the GIGABYTE support portal.

## Related Documents - TRX50 AERO D

<p>TRX50 AERO D</p> <p>사용자 설명서 782면</p> 	<p><a href="#">GIGABYTE TRX50 AERO D</a></p> <p>GIGABYTE TRX50 AERO D . , , CPU , , BIOS , , , .</p>
<p>X870E AORUS XTREME AI TOP (X870E A XTREME AI TOP)</p> <p>Benutzerhandbuch 662 S.</p> 	<p><a href="#">GIGABYTE X870E AORUS XTREME AI TOP Benutzerhandbuch</a></p> <p>Umfassendes Benutzerhandbuch für das GIGABYTE X870E AORUS XTREME AI TOP Motherboard. Enthält Installationsanleitungen, technische Daten, BIOS-Setup und Fehlerbehebung.</p>
<p>B850M C</p> <p>User's Manual 662 S.</p> 	<p><a href="#">GIGABYTE B850M C Motherboard User Manual</a></p> <p>User manual for the GIGABYTE B850M C motherboard, covering hardware installation, BIOS setup, driver installation, specifications, and regulatory compliance for AMD AM5 platform.</p>
<p>X870E AORUS XTREME AI TOP (X870E A XTREME AI TOP)</p> <p>Benutzerhandbuch 662 S.</p> 	<p><a href="#">X870E AORUS XTREME AI TOP Benutzerhandbuch</a></p> <p>Das Benutzerhandbuch für das X870E AORUS XTREME AI TOP Motherboard von GIGABYTE. Enthält Informationen zur Produktvorstellung, Hardwareinstallation, BIOS-Setup, Betriebssystem- und Treiberinstallation sowie einen Anhang mit wichtigen Hinweisen.</p>

<p>X870E AORUS PRO ICE X870E AORUS PRO</p> <p>User's Manual Rev. 1002</p> 	<p><a href="#">GIGABYTE X870E AORUS PRO ICE / X870E AORUS PRO User's Manual</a></p> <p>Comprehensive user's manual for the GIGABYTE X870E AORUS PRO ICE and X870E AORUS PRO motherboards, covering hardware installation, specifications, BIOS setup, operating system and driver installation, and regulatory information.</p>
<p>B650M GAMING WIFI6E B650M GAMING WIFI</p> <p>User's Manual Rev. 1002</p> 	<p><a href="#">GIGABYTE B650M GAMING WIFI6E / B650M GAMING WIFI Motherboard User Manual</a></p> <p>Comprehensive user manual for the GIGABYTE B650M GAMING WIFI6E and B650M GAMING WIFI motherboards. Covers installation, specifications, BIOS setup, troubleshooting, and regulatory information.</p>

Documents - GIGABYTE – TRX50 AERO D



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m=sw <https://www.gigabyte.cn/> REV : X.XX.X REV : 1.01.0BIOS

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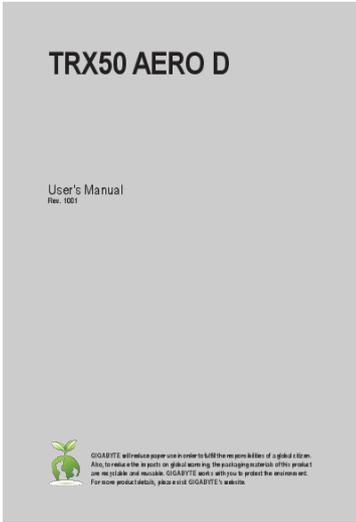
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GA-TRX50-AERO-D

Gigabyte TRX50 AERO D TRX50 Chipset sTR5 Socket E-ATX Motherboard (Order on request)

Specifications are subject to change without notice. Images may differ from actual product. E.O.E. View full specifications price at https://www.comx-computers.co.za

Optimize TRX50 PRO D - Supports AMD Ryzen Threadripper PRO 7000 series Processor, Memory Dual Channel DDR5, 16-8-4 Phases Digital VRM, up to 7800MHz DDR5 (OC), 4xPCIe 4.0 M.2, Wi-Fi 7, 2.5Gbe LAN, USB 3.2 Gen 2



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Product page for Gigabyte TRX50 AERO D Motherboard. Includes product name, specifications table, and a small product image. The specifications table lists details for Processor, Memory, Storage, and Network.

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Gigabyte TRX50 AERO D Motherboard - Supports AMD Ryzen PRO 7000 CPUs, 16 8 4 Phases Digital VRM, up to 7800MHz DDR5 OC , 4xPCIe 4.0 M.2, Wi-Fi 7, 2.5GbE LAN, USB 3.2 Gen 2 Brand : Gigabyte Product code: TRX50 AERO D Product name : TRX50 AERO D Motherboard - Supports AMD Ryzen PRO 7000 CPUs, 16 8...

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