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## GIGABYTE Z790 UD AC

# GIGABYTE Z790 UD AC Motherboard User Manual

Model: Z790 UD AC

## 1. INTRODUCTION

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This manual provides detailed instructions for the installation, operation, maintenance, and troubleshooting of the GIGABYTE Z790 UD AC motherboard. This motherboard is designed to support 13th and 12th Generation Intel Core Series Processors, offering a robust platform for various computing needs.

Key features include:

- Intel LGA 1700 Socket for 13th and 12th Gen Intel Core Processors.
- Dual Channel DDR5 memory support with 4 DIMM slots.
- 16+1+1 Twin Hybrid Phases Digital Power Design with 60A DrMOS for stable power delivery.
- Comprehensive thermal design including Fully Covered MOSFET Heatsinks and M.2 Thermal Guard.
- Next-generation connectivity with PCIe 5.0, Triple NVMe PCIe 4.0 x4 M.2 slots, and SuperSpeed USB 3.2 Gen 2x2 Type-C.
- Fast networking capabilities with 2.5GbE LAN and Intel Wi-Fi.



Figure 1.1: GIGABYTE Z790 UD AC Motherboard and its retail packaging.

## 2. SETUP AND INSTALLATION

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Follow these steps for proper installation of your GIGABYTE Z790 UD AC motherboard and components.

### 2.1. Preparing the Motherboard

Before installing any components, ensure the motherboard is placed on a non-conductive surface. Refer to the motherboard layout to identify key connectors and slots.

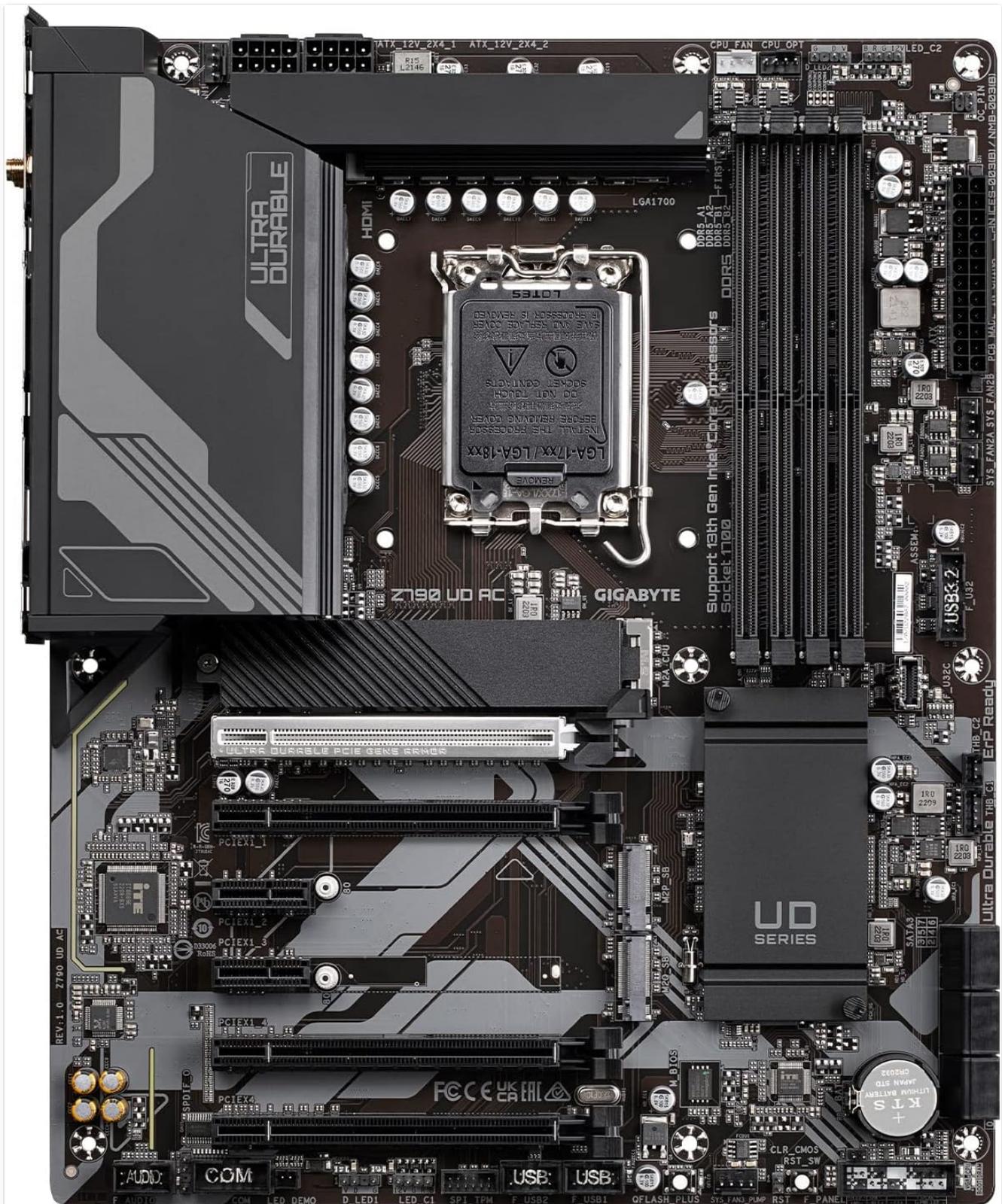


Figure 2.1: Top-down view of the GIGABYTE Z790 UD AC motherboard, highlighting component placement.

## 2.2. CPU Installation

1. Locate the LGA 1700 CPU socket.
2. Open the CPU socket lever and remove the protective cover.
3. Carefully align the CPU with the socket, ensuring the triangular mark on the CPU matches the mark on the socket.
4. Gently place the CPU into the socket without forcing it.
5. Close the CPU socket lever to secure the CPU.

## 2.3. RAM (DDR5) Installation

1. Identify the DDR5 DIMM slots. For dual-channel operation, consult your motherboard manual for recommended slot pairing (typically slots A2 and B2 first).
2. Open the clips at both ends of the DIMM slot.
3. Align the RAM module with the slot, ensuring the notch on the module matches the key in the slot.
4. Press down firmly on both ends of the RAM module until the clips snap into place.

## 2.4. M.2 SSD Installation

The motherboard features Triple NVMe PCIe 4.0 x4 M.2 slots. One slot includes an M.2 Thermal Guard for improved performance.

1. Locate an available M.2 slot. If present, remove the M.2 Thermal Guard screw and heatsink.
2. Insert the M.2 SSD into the slot at a 30-degree angle.
3. Gently push the SSD down and secure it with the provided M.2 screw or EZ-Latch mechanism.
4. If using a heatsink, reattach it and secure the screw.

## 2.5. Graphics Card (PCIe 5.0) Installation

1. Locate the primary PCIe 5.0 x16 slot.
2. Open the retention clip at the end of the slot.
3. Align your graphics card with the slot and press down firmly until it is fully seated and the retention clip snaps into place.
4. Secure the graphics card to your case with screws.
5. Connect appropriate PCIe power cables from your power supply to the graphics card, if required.

## 2.6. Power Supply and Case Connections

1. Connect the 24-pin ATX power connector and the 8-pin (or 4+4-pin) CPU power connectors from your power supply to the motherboard.
2. Connect front panel headers (power button, reset button, USB ports, audio jacks) to their respective pins on the motherboard. Refer to the motherboard manual for exact pin layouts.
3. Connect SATA data cables to your storage drives and the motherboard, if applicable.

# 3. OPERATING INSTRUCTIONS

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## 3.1. Initial Boot and BIOS/UEFI Setup

Upon the first boot, the system will typically enter the BIOS/UEFI setup utility. You can also access it by pressing the **DEL** key during startup.

- **Main Menu:** Provides system information.
- **Tweaker:** Adjust CPU, memory, and voltage settings for performance tuning.
- **Settings:** Configure integrated peripherals, power management, and boot options.
- **Boot:** Set boot device priority.
- **Save & Exit:** Save changes and exit, or load optimized defaults.

It is recommended to update the BIOS to the latest version for optimal compatibility and performance, especially when using newer components like RTX 40 series GPUs, as noted in user experiences.

## 3.2. Driver and Software Installation

After installing your operating system, install the necessary drivers from the GIGABYTE support website or the included driver disc. This includes chipset drivers, LAN drivers, Wi-Fi/Bluetooth drivers, and audio drivers. GIGABYTE also provides utility software for system monitoring and customization.

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## 4. MAINTENANCE

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### 4.1. Cleaning

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

### 4.2. BIOS Updates

Periodically check the GIGABYTE website for BIOS updates. BIOS updates can improve system stability, add support for new hardware, and fix known issues. Use the Q-Flash Plus feature to update the BIOS without installing a CPU, memory, or graphics card.

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## 5. TROUBLESHOOTING

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This section addresses common issues you might encounter.

### 5.1. No Display Output

- Ensure the monitor is connected to the graphics card (or motherboard if using integrated graphics) and powered on.
- Verify that the graphics card is properly seated in its PCIe slot and any required power cables are connected.
- Try updating the BIOS to the latest version, especially if using newer graphics cards (e.g., NVIDIA RTX 40 series), as this can resolve compatibility issues.
- Reseat RAM modules. Incorrectly seated RAM is a common cause of no display.

### 5.2. System Instability or Crashes

- Check CPU and GPU temperatures. Overheating can cause instability. Ensure proper cooling and airflow.
- Verify that all power connections are secure.
- Run memory diagnostic tools to check for faulty RAM.
- Ensure all drivers are up to date.

### 5.3. Coil Whine

Some users have reported coil whine. This is typically an electrical noise from power delivery components. While often harmless, if persistent and disruptive, consider contacting GIGABYTE support.

### 5.4. BIOS/UEFI Settings Issues

If BIOS settings are behaving unexpectedly, try loading optimized defaults from the 'Save & Exit' menu. If issues persist, a CMOS clear may be necessary (refer to the full manual for jumper location).

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## 6. TECHNICAL SPECIFICATIONS

Feature	Specification
CPU Socket	LGA 1700
Compatible Processors	13th and 12th Generation Intel Core Series Processors
Chipset	Intel Z790
RAM Type	DDR5
RAM Slots	4 DIMM, Dual Channel
Max RAM Capacity	128 GB
Memory Speed (OC)	Up to 7200 MHz (OC)
PCIe Slots	1x PCIe 5.0 x16, 1x PCIe 4.0 x16, 2x PCIe 3.0 x16, 2x PCIe x4
M.2 Slots	3x NVMe PCIe 4.0 x4 M.2 (one with Thermal Guard)
SATA Ports	6x SATA 6Gb/s
USB Ports (Rear)	1x USB 3.2 Gen 2x2 Type-C, 1x USB 3.2 Gen 2 Type-A, 6x USB 3.2 Gen 1, 2x USB 2.0/1.1
LAN	Intel 2.5GbE LAN
Wireless Connectivity	Intel Wi-Fi (802.11ac, Wi-Fi 5), Bluetooth 4.2
Audio	Realtek ALC897 Codec, High Definition Audio
Form Factor	ATX
Dimensions	10.62 x 3.14 x 13.18 inches

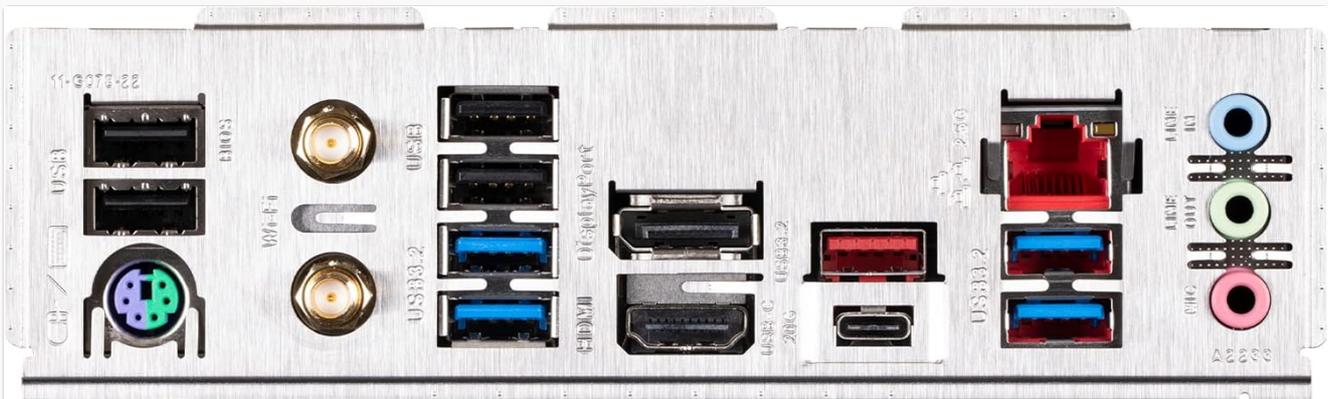


Figure 6.1: Rear I/O panel illustrating various connectivity options including USB, LAN, Wi-Fi antenna connectors, and audio jacks.

## 7. 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 resources for their products.

## 7.1. Technical Support

If you encounter issues not covered in this manual, please visit the GIGABYTE support website for FAQs, driver downloads, and contact information for technical assistance.

## 7.2. Product Registration

Registering your product on the GIGABYTE website may provide additional benefits, such as extended warranty information or access to exclusive support resources.

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### Related Documents - Z790 UD AC

	<p><a href="#">GIGABYTE Intel 700 Series BIOS Setup Guide</a></p> <p>Comprehensive guide to configuring the BIOS settings for GIGABYTE motherboards featuring Intel 700 Series chipsets. Covers Advanced Mode, Easy Mode, fan control, system settings, boot options, and more.</p>
	<p><a href="#">GIGABYTE MS03-CE0 Motherboard User Manual</a></p> <p>User manual for the GIGABYTE MS03-CE0 Motherboard, detailing hardware installation, BIOS setup, product specifications, and board management features.</p>
	<p><a href="#">GIGABYTE Z790 AORUS TACHYON Motherboard Installation Guide</a></p> <p>Comprehensive installation guide for the GIGABYTE Z790 AORUS TACHYON motherboard, detailing component layout, connectors, BIOS setup, RAID configuration, and regulatory information.</p>

 <p><b>Z790 AORUS XTREME</b></p> <p>User's Manual Rev. 1001</p>	<p><a href="#">GIGABYTE Z790 AORUS XTREME Motherboard User's Manual</a></p> <p>Comprehensive user manual for the GIGABYTE Z790 AORUS XTREME motherboard, detailing hardware installation, specifications, BIOS setup, and driver installation for high-performance computing.</p>
 <p>Підкалкування безпеки персонального комп'ютера Інструкція по використанню плати</p> <p>Английська мова <b>GIGABYTE B760M DS3H AX DDR4</b></p> <p>Технічні характеристики:</p> <ul style="list-style-type: none"> <li>• Тип процесора: Intel Core i3/i5/i7/i9</li> <li>• Тип процесора: AMD Ryzen 5/7/9</li> <li>• Тип процесора: Intel Core i3/i5/i7/i9</li> <li>• Тип процесора: AMD Ryzen 5/7/9</li> <li>• Тип процесора: Intel Core i3/i5/i7/i9</li> <li>• Тип процесора: AMD Ryzen 5/7/9</li> <li>• Тип процесора: Intel Core i3/i5/i7/i9</li> <li>• Тип процесора: AMD Ryzen 5/7/9</li> </ul> <p>Максимальна кількість слотів оперативної пам'яті:</p> <ul style="list-style-type: none"> <li>• 4 слоти</li> <li>• 2 слоти</li> <li>• 1 слот</li> <li>• 0 слотів</li> </ul> <p>Максимальна кількість слотів SATA:</p> <ul style="list-style-type: none"> <li>• 6 слотів</li> <li>• 4 слоти</li> <li>• 2 слоти</li> <li>• 0 слотів</li> </ul> <p>Максимальна кількість слотів M.2:</p> <ul style="list-style-type: none"> <li>• 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слот</li> <li>• 0 слотів</li> </ul> <p>Максимальна кількість слотів VGA:</p> <ul style="list-style-type: none"> <li>• 1 слот</li> <li>• 0 слотів</li> </ul> <p>Максимальна кількість слотів PS/2:</p> <ul style="list-style-type: none"> <li>• 2 слоти</li> <li>• 1 слот</li> <li>• 0 слотів</li> </ul> <p>Максимальна кількість слотів COM:</p> <ul style="list-style-type: none"> <li>• 1 слот</li> <li>• 0 слотів</li> </ul> <p>Максимальна кількість слотів LPT:</p> <ul style="list-style-type: none"> <li>• 1 слот</li> <li>• 0 слотів</li> </ul> <p>Максимальна кількість слотів FDD:</p> <ul style="list-style-type: none"> <li>• 1 слот</li> <li>• 0 слотів</li> </ul> <p>Максимальна кількість слотів Floppy:</p> <ul style="list-style-type: none"> <li>• 1 слот</li> <li>• 0 слотів</li> </ul> <p>Максимальна кількість слотів IDE:</p> <ul style="list-style-type: none"> <li>• 1 слот</li> <li>• 0 слотів</li> </ul> <p>Максимальна кількість слотів SCSI:</p> <ul style="list-style-type: none"> <li>• 1 слот</li> <li>• 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사용자 설명서  
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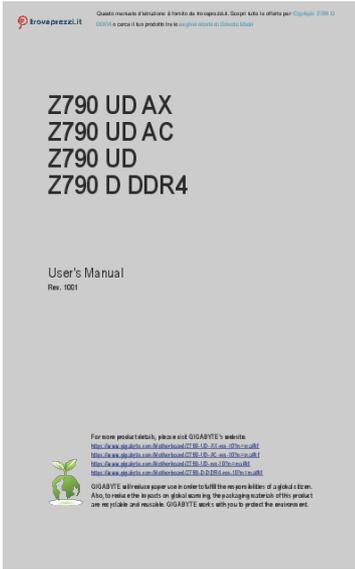
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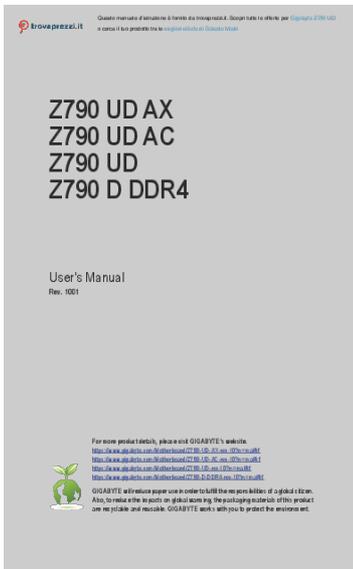
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