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› Cuifati X99 LGA2011-3 DDR4 Computer Motherboard Mainboard User Manual

Cuifati X99 LGA2011-3

Cuifati X99 LGA2011-3 DDR4 Motherboard User Manual

Model: X99 LGA2011-3

Brand: Cuifati

1. PRODUCT OVERVIEW

The Cuifati X99 LGA2011-3 DDR4 Motherboard is designed for high-performance computing, supporting LGA2011 V3 processors and DDR4 memory. It features an NVME M.2 slot for high-speed storage and multiple USB ports for connectivity. This manual provides essential information for setting up, operating, and maintaining your motherboard.



Figure 1.1: Cuifati X99 LGA2011-3 DDR4 Motherboard with I/O shield and SATA cable.

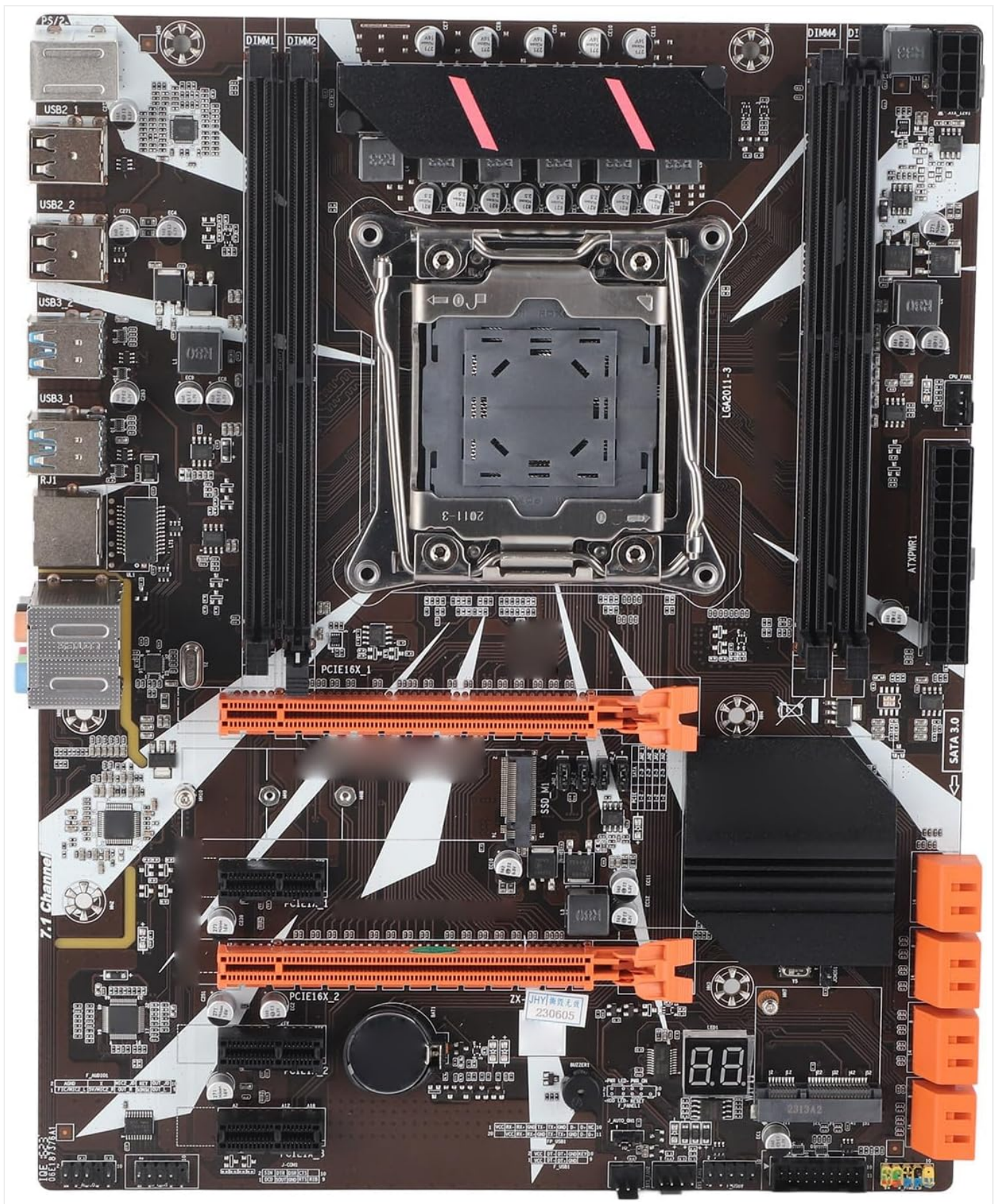


Figure 1.2: Top-down view of the motherboard, highlighting the LGA2011-3 socket and DDR4 memory slots.

2. SETUP AND INSTALLATION

2.1 Component Identification



1 Warning

Please dispose of the packaging materials properly after use to avoid choking hazard.

2 Warnung

Bitte entsorgen Sie das Verpackungsmaterial nach Gebrauch ordnungsgemäß, um Erstickungsgefahr zu vermeiden.

3 Avertissement

Veuillez jeter les matériaux d'emballage correctement après utilisation pour éviter tout risque d'étouffement.

4 Advertencia

Deseche los materiales de embalaje adecuadamente después de su uso para evitar peligro de asfixia.

5 Ostrzeżenie

Po użyciu należy odpowiednio zutylizować materiały opakowaniowe, aby uniknąć ryzyka zadławienia.

6 Waarschuwing

Gooi de verpakkingsmaterialen na gebruik op de juiste manier weg om verstikkingsgevaar te voorkomen.

7 Varning

Kassera förpackningsmaterialet på rätt sätt efter användning för att undvika kvävningsrisk.

8 Attenzione

Smaltire correttamente i materiali di imballaggio dopo l'uso per evitare rischi di soffocamento.

9 Uyarı

Boğulma tehlikesini önlemek için lütfen kullanımdan sonra ambalaj malzemelerini uygun şekilde atın.

Figure 2.1: Motherboard Layout Diagram. Key components include CPU Power Connector, PS/2 port, USB 2.0/3.0 ports, Gigabit NIC, Audio ports, Graphics Card Power Port, Front Audio, COM port, Main Power Interface, SATA 3.0, WIFI Interface, and Front Panel Interface.

2.2 Pre-Installation Checklist

- Ensure your power supply is sufficient. A minimum of a 500W brand power supply is recommended.
- Verify CPU compatibility. If using for processors, do not use REG ECC memory simultaneously as they are not compatible.
- Prepare your computer case and necessary tools.

2.3 Installation Steps

1. **CPU Installation:** Carefully open the LGA2011-3 socket lever, align your compatible Intel Core i7 or Xeon E5 V3/V4 processor, and gently place it into the socket. Close the lever to secure the CPU.
2. **CPU Cooler Installation:** Install your CPU cooler according to its manufacturer's instructions. Ensure proper thermal paste application and secure mounting.
3. **RAM Installation:** This motherboard supports 4 DDR4 2133/2400/2800 memory modules, up to a maximum of

32GB. Insert DDR4 memory modules into the DIMM slots, ensuring they click into place. For optimal performance, install modules in matched pairs for quad-channel operation.

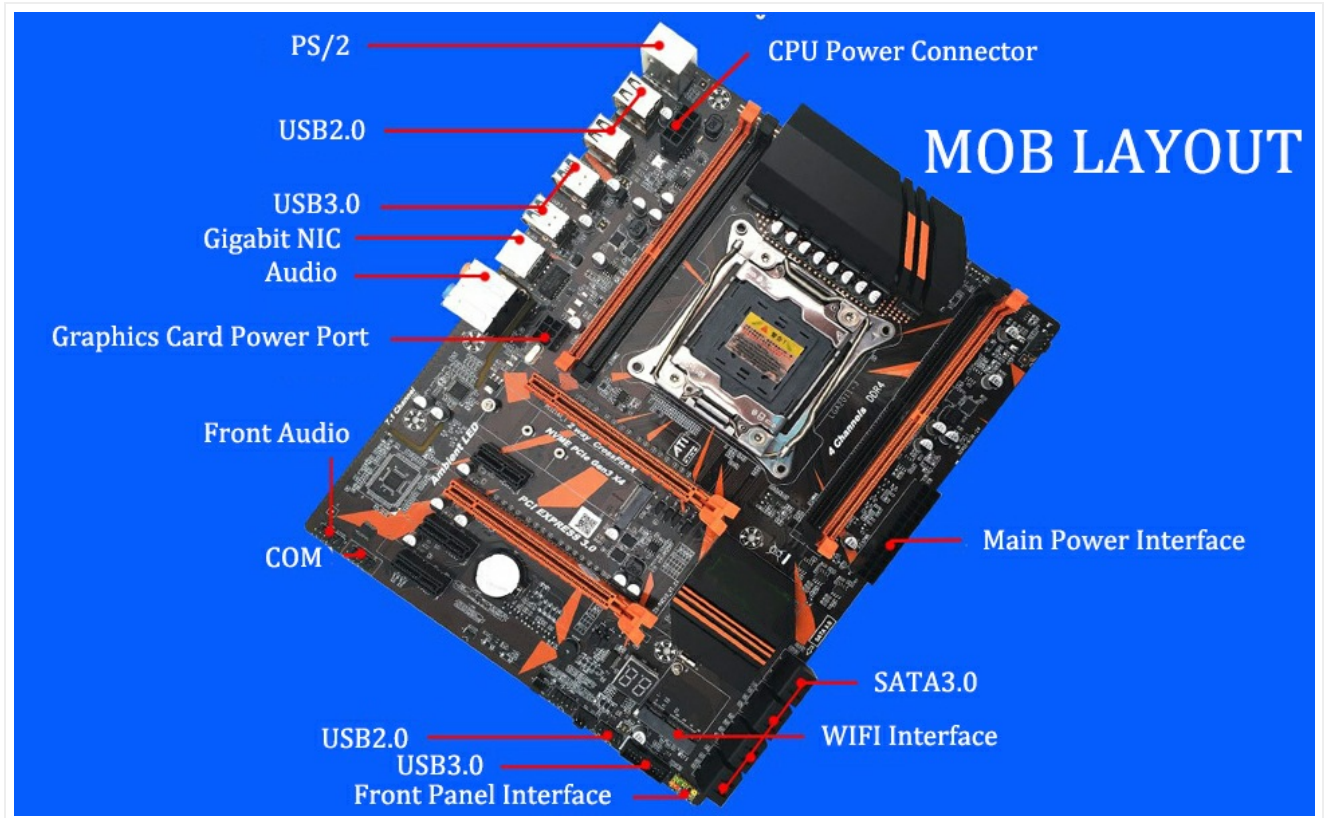


Figure 2.2: Detailed views of the Full Speed M.2 Slot, 4x32GB DDR4 memory support, and PCI-E 16X 3.0 slot.

4. **NVME M.2 SSD Installation:** Locate the Full Speed M.2 SSD slot. Insert your NVME M.2 SSD at an angle and secure it with the provided screw. This slot offers theoretical bandwidth up to 4GB/s.
5. **PCI-E Card Installation:** Insert your graphics card or other PCI-E expansion cards into the PCI-E 16X 3.0 slots. Ensure they are fully seated and secured with the case's retention mechanism.
6. **Power Connections:** Connect the 24-pin ATX main power connector and the 8-pin CPU power connector from your power supply to the motherboard.
7. **SATA Device Connections:** Connect your SATA hard drives or SSDs to the SATA 3.0 ports on the motherboard using the provided SATA cables.



Figure 2.3: Included SATA data cable.

8. **Front Panel Connections:** Connect the power switch, reset switch, power LED, and hard drive indicator cables from your computer case to the corresponding pins on the motherboard's front panel header. Refer to the diagram below for correct pin alignment.



Figure 2.4: Introduction to Terminal Blocks - Front Panel Header connections for Power SW, Reset SW, Power LED, and HDD LED.

9. **I/O Shield Installation:** Install the I/O shield into your computer case before mounting the motherboard.



Figure 2.5: Motherboard I/O Shield.

3. OPERATING INSTRUCTIONS

3.1 First Boot-Up

After all components are installed and connected, power on your system. The motherboard features a status indicator (debug LED) that can assist in diagnosing boot issues.

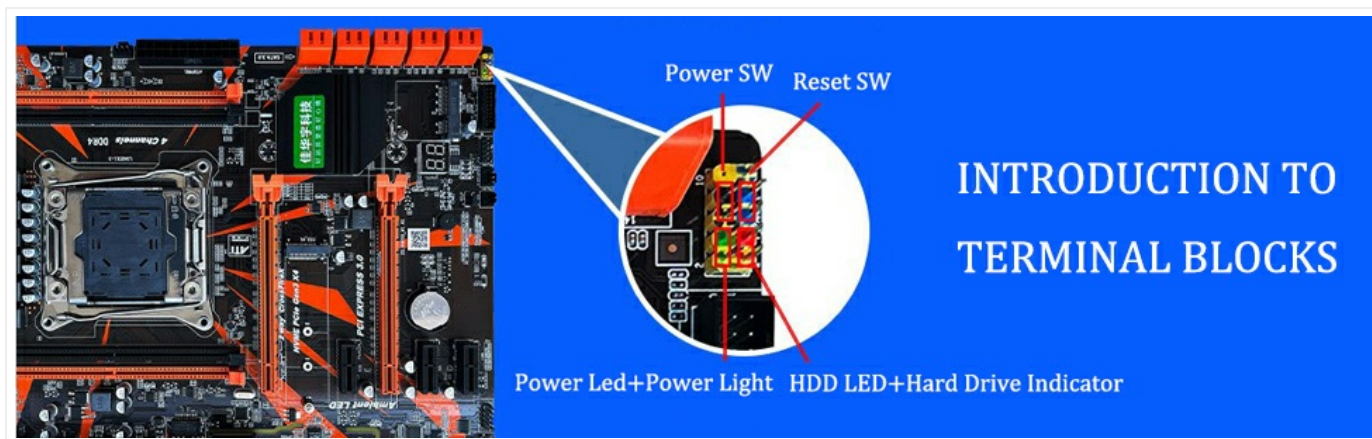


Figure 3.1: Features including 8-Phase Power, Wireless NIC Module, and Status Indicator (Debug LED).

3.2 BIOS/UEFI Access

To enter the BIOS/UEFI setup, press the designated key (commonly **DEL** or **F2**) during the initial boot sequence. The BIOS interface may appear basic but offers comprehensive settings for system configuration. Be cautious when making changes if you are not familiar with specific settings.

3.3 Driver Installation

For Windows operating systems (e.g., Windows 10), most necessary drivers should be automatically detected and installed via Windows Update. If any drivers are missing, check the manufacturer's website for specific driver downloads for the X99 chipset.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and stable operation of your motherboard and PC components.

- **Dust Removal:** Periodically clean dust from inside your computer case, especially from heatsinks, fans, and the motherboard surface. Use compressed air or a soft brush. Ensure the system is powered off and unplugged before cleaning.
- **Airflow:** Ensure proper airflow within your case by managing cables and ensuring case fans are functioning correctly. Good airflow prevents overheating of components.
- **BIOS Updates:** Only update the BIOS if necessary and follow official instructions carefully. Incorrect BIOS updates can render the motherboard inoperable.

5. TROUBLESHOOTING

This section addresses common issues you might encounter.

- **System Does Not Power On:**
 - Verify all power cables (24-pin ATX, 8-pin CPU) are securely connected to the motherboard and power supply.
 - Ensure your power supply meets the minimum 500W requirement and is functioning correctly.
 - Check front panel power switch connections.
- **No Display Output:**
 - Ensure your graphics card is properly seated in the PCI-E slot and its power connectors are attached.
 - Check monitor cable connections.
 - Reseat RAM modules. Incorrectly seated RAM is a common cause of no display.

• **CPU/RAM Compatibility Issues:**

- This motherboard supports LGA2011 V3 processors. Ensure your CPU is compatible. For example, the i7-6850k is not compatible with this motherboard.
- If using for processors, ensure you are not using REG ECC memory simultaneously, as they are not compatible with each other.

• **BIOS/UEFI Issues:**

- If the BIOS resolution changes randomly, try connecting to a different display or resetting CMOS.
- If you experience difficulty navigating the BIOS, refer to online resources or contact support for guidance.

• **General Performance Issues:**

- Ensure all drivers are up to date. Windows Update typically handles this, but manual installation may be required for specific components.
- Check for proper cooling to prevent thermal throttling.

6. SPECIFICATIONS

Feature	Specification
Product Dimensions	11.02 x 8.66 x 1.5 inches
Item Weight	2 pounds
Manufacturer	CUIFATI
CPU Socket	LGA 2011-3
Compatible Devices	Personal Computer
RAM Memory Technology	DDR4
Chipset Type	Intel
Memory Clock Speed	2133/2400/2800 MHz
Platform	Windows 10
CPU Model Support	Core i7, Xeon E5 V3/V4
RAM Memory Maximum Size	32 GB
M.2 Slot	Full Speed NVME M.2 (up to 4GB/s theoretical bandwidth)
PCI-E Slots	PCI-E 16X 3.0

7. WARRANTY AND SUPPORT

7.1 Warranty Information

This product comes with a 90-day warranty from the date of purchase. Please retain your proof of purchase for warranty claims.



Figure 7.1: Cuifati 90-day warranty information.

7.2 Customer Support

If you have any questions, require assistance with installation, or encounter issues not covered in this manual, please feel free to contact us through the platform where you purchased the product. We are committed to providing detailed and easy-to-understand answers to support your experience.

8. IMPORTANT SAFETY WARNING



Figure 8.1: Motherboard highlighting four USB 3.0 ports and four USB 2.0 ports for multiple devices and fast data transfer.



Figure 8.2: Example of a SATA data cable.

**With four USB3.0 port and four USB2.0 port,
it supports multiple devices and fast data transfer.**



Figure 8.3: Angled view of the motherboard, showcasing the various I/O ports.

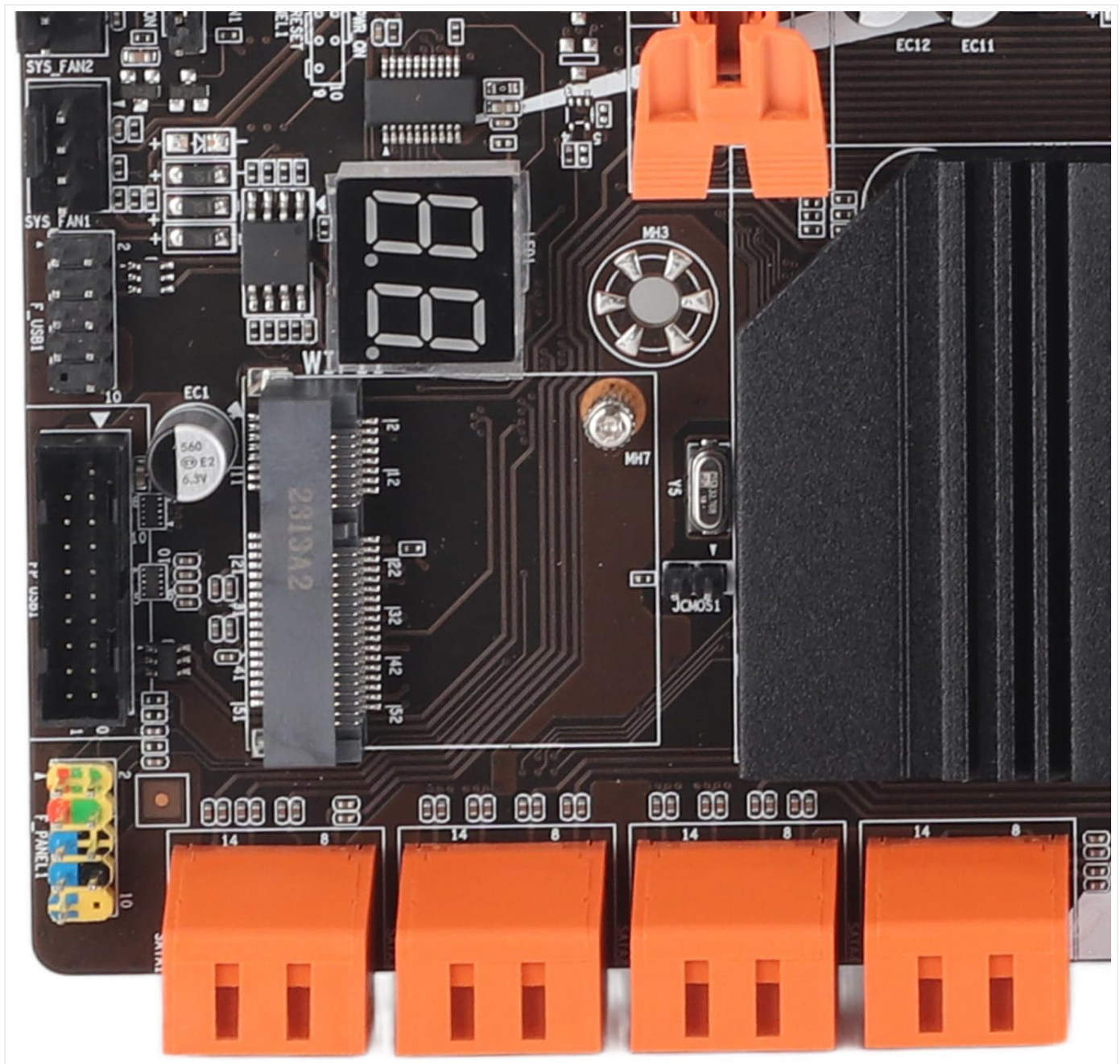


Figure 8.4: Close-up of the M.2 slot and the debug LED display.

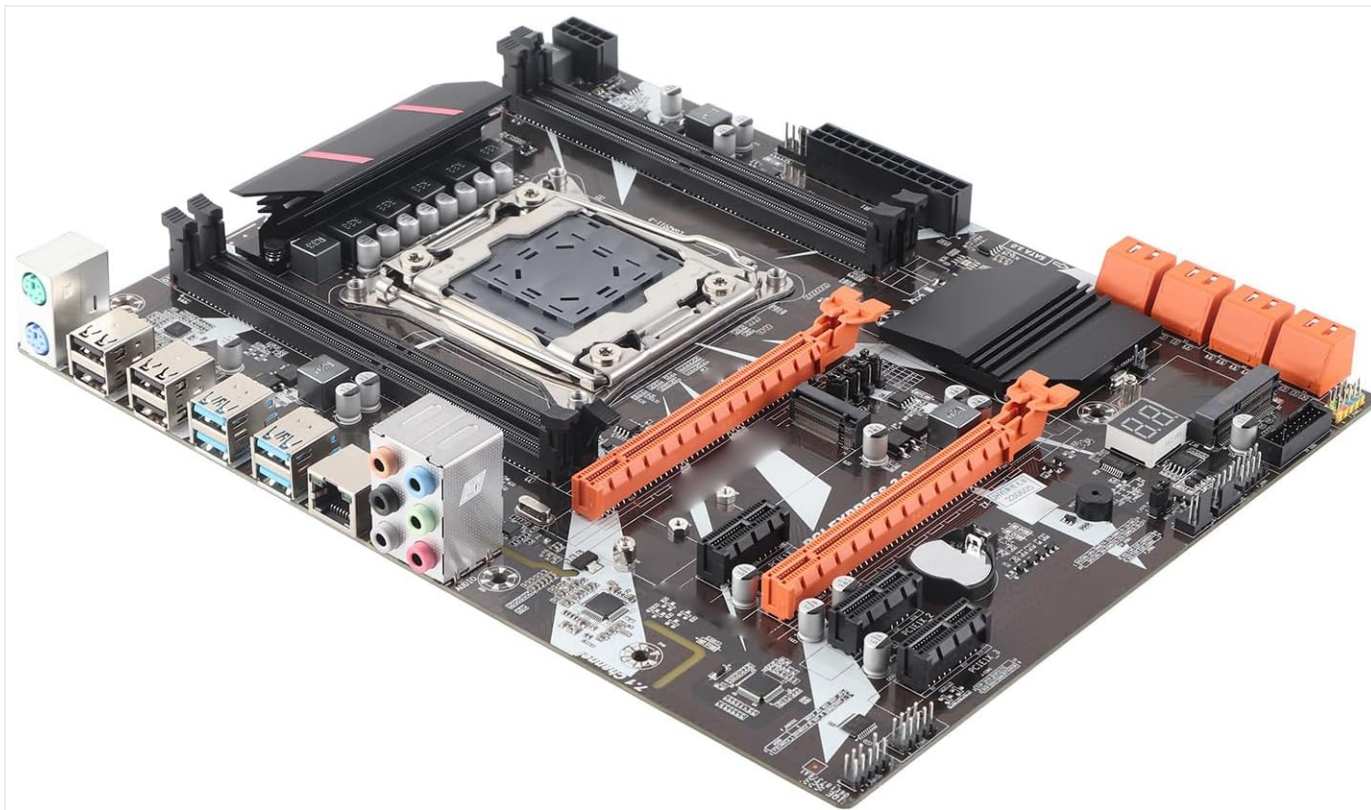


Figure 8.5: Another angled view of the motherboard, emphasizing the four DDR4 memory slots.



Figure 8.6: Comparison of a new motherboard design with an older one.

Warning:

Please dispose of the packaging materials properly after use to avoid choking hazard.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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