

## Dpofirs Dpofirs5vo7dgq201

# Dpofirs X99 Motherboard CPU Combo Instruction Manual

Model: Dpofirs5vo7dgq201

Brand: Dpofirs

## 1. INTRODUCTION

This manual provides essential information for the proper installation, operation, and maintenance of your Dpofirs X99 Motherboard CPU Combo. This high-performance desktop motherboard is designed to support LGA 2011-3 E5 2620 V3 CPUs and features 4-channel DDR4 memory, a Gigabit network card, 10 SATA3.0 ports, and an NVME M.2 interface for versatile computing needs. Please read this manual thoroughly before proceeding with installation.

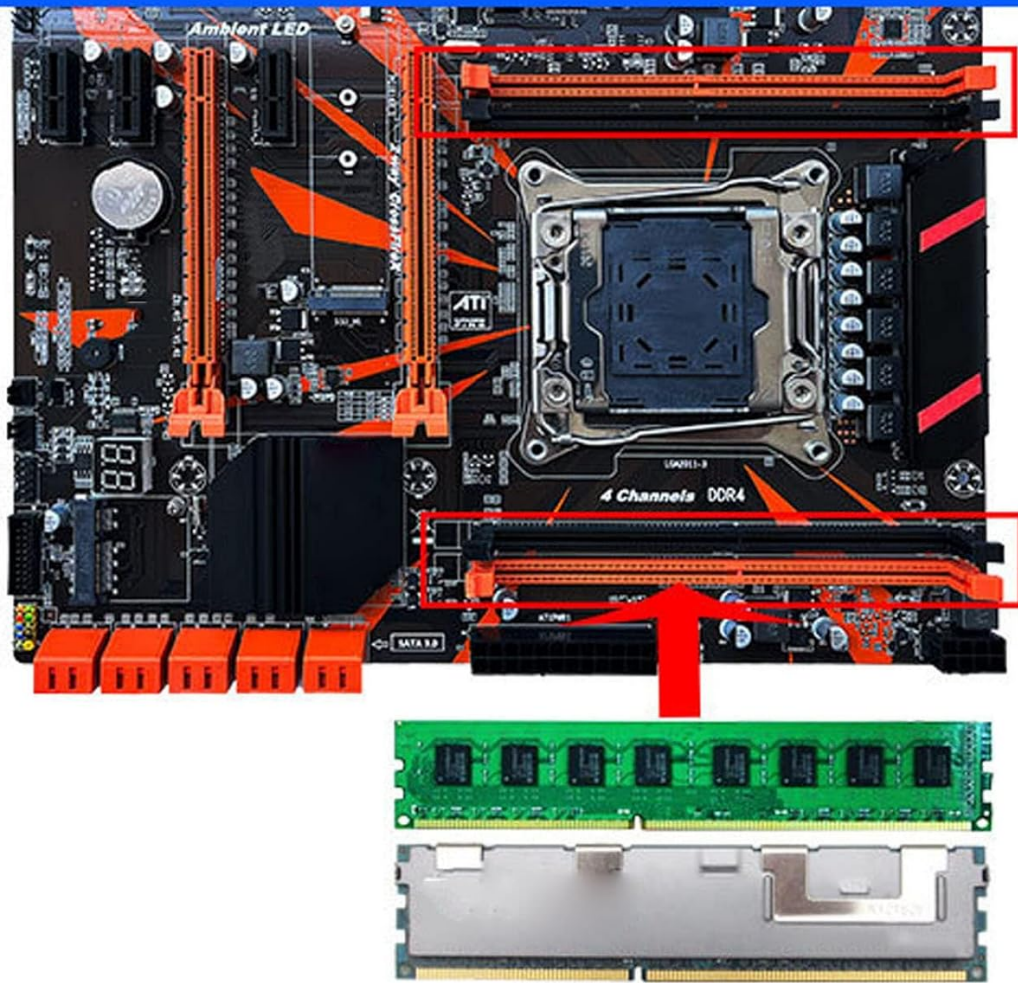
## 2. PRODUCT OVERVIEW

The Dpofirs X99 Motherboard CPU Combo offers a robust platform for your computing requirements. Key features include:

- **DDR4 Memory:** Supports DDR4 4-channel memory configurations. Note: ECC server memory cannot be used simultaneously with non-ECC memory.
- **NVME M.2 Interface:** Equipped with a high-speed NVME M.2 hard disk port and 10 SATA3.0 ports for extensive storage expansion.
- **Clear Status Display:** Features a digital status display and buzzer for clear motherboard operational status.
- **Stable Power Delivery:** Utilizes an 8-phase power supply with modular heat dissipation for enhanced stability.
- **Wireless Network Card Interface:** Includes an interface for a wireless network card module, allowing for laptop-style wireless connectivity.

### 2.1 Component Layout





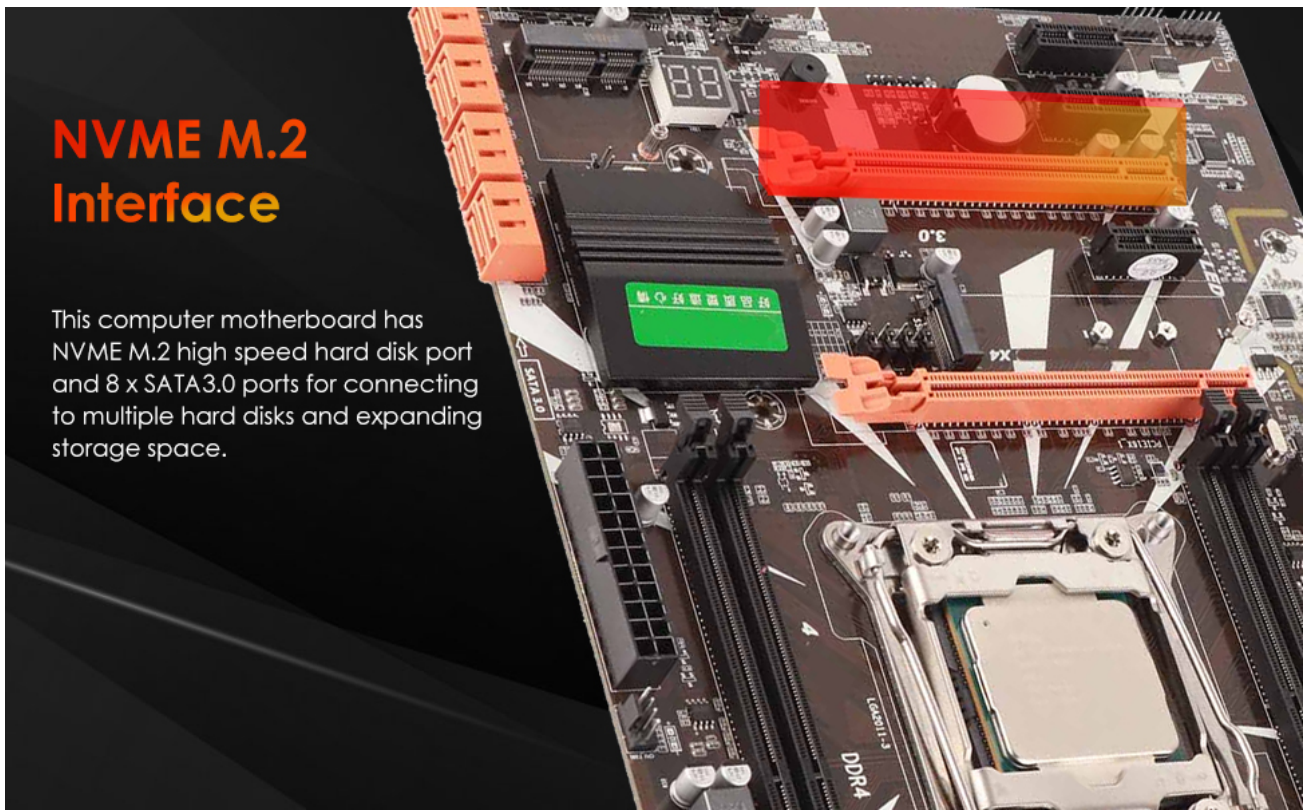
**DDR4 4 channel memory  
Normal memory supported,  
cannot be used ECC server memory simultaneously.**

**Figure 2.2:** Close-up view of the DDR4 4-channel memory slots on the Dpofirs X99 Motherboard. This illustrates the placement of RAM modules and emphasizes that normal memory is supported, but ECC server memory cannot be used simultaneously.

### 2.3 NVME M.2 and SATA Interfaces

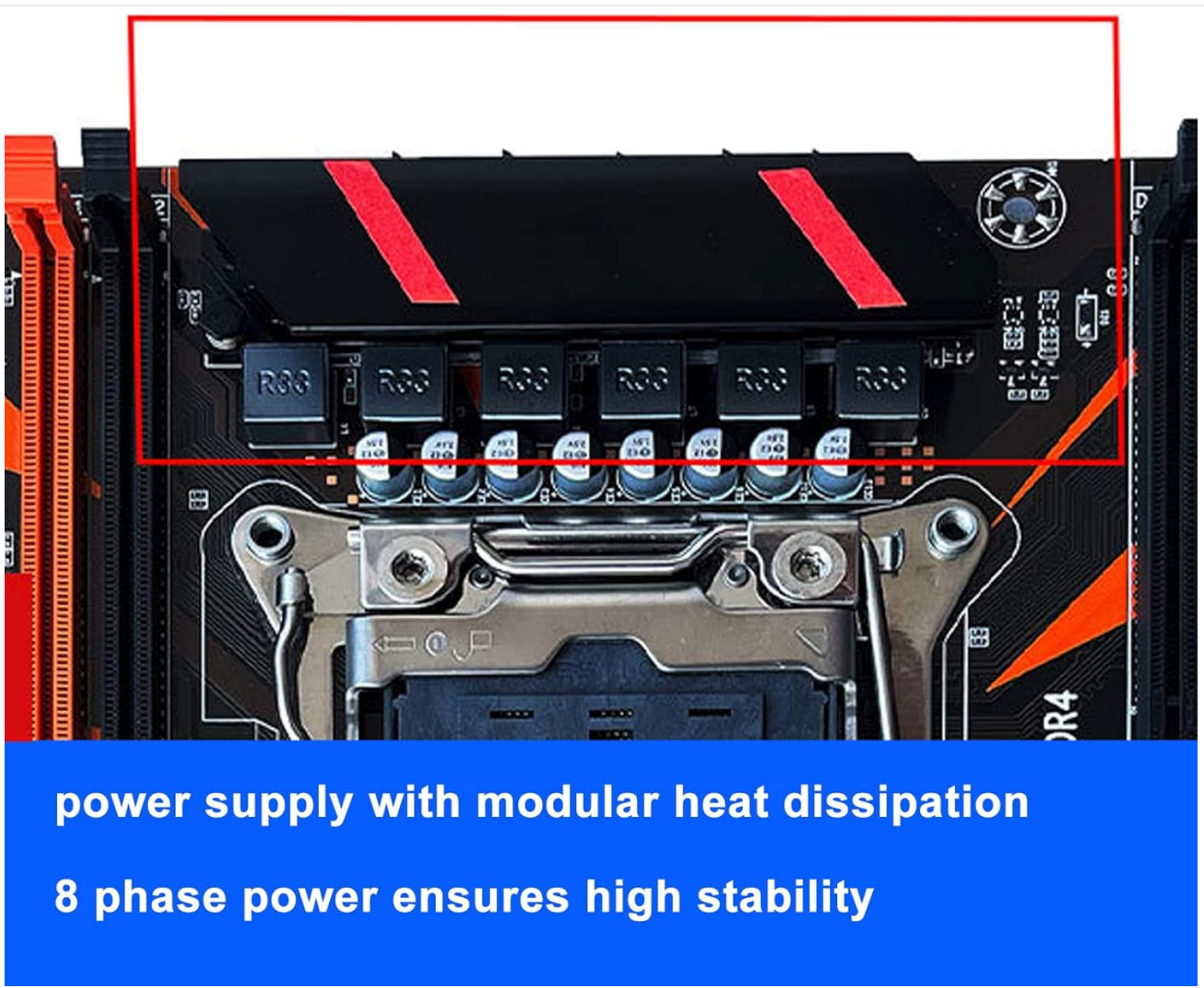
## NVME M.2 Interface

This computer motherboard has NVME M.2 high speed hard disk port and 8 x SATA3.0 ports for connecting to multiple hard disks and expanding storage space.



**Figure 2.3:** The NVME M.2 high-speed hard disk port and SATA3.0 ports on the Dpofirs X99 Motherboard, crucial for connecting various storage devices and expanding system storage capacity.

## 2.4 Power Delivery System



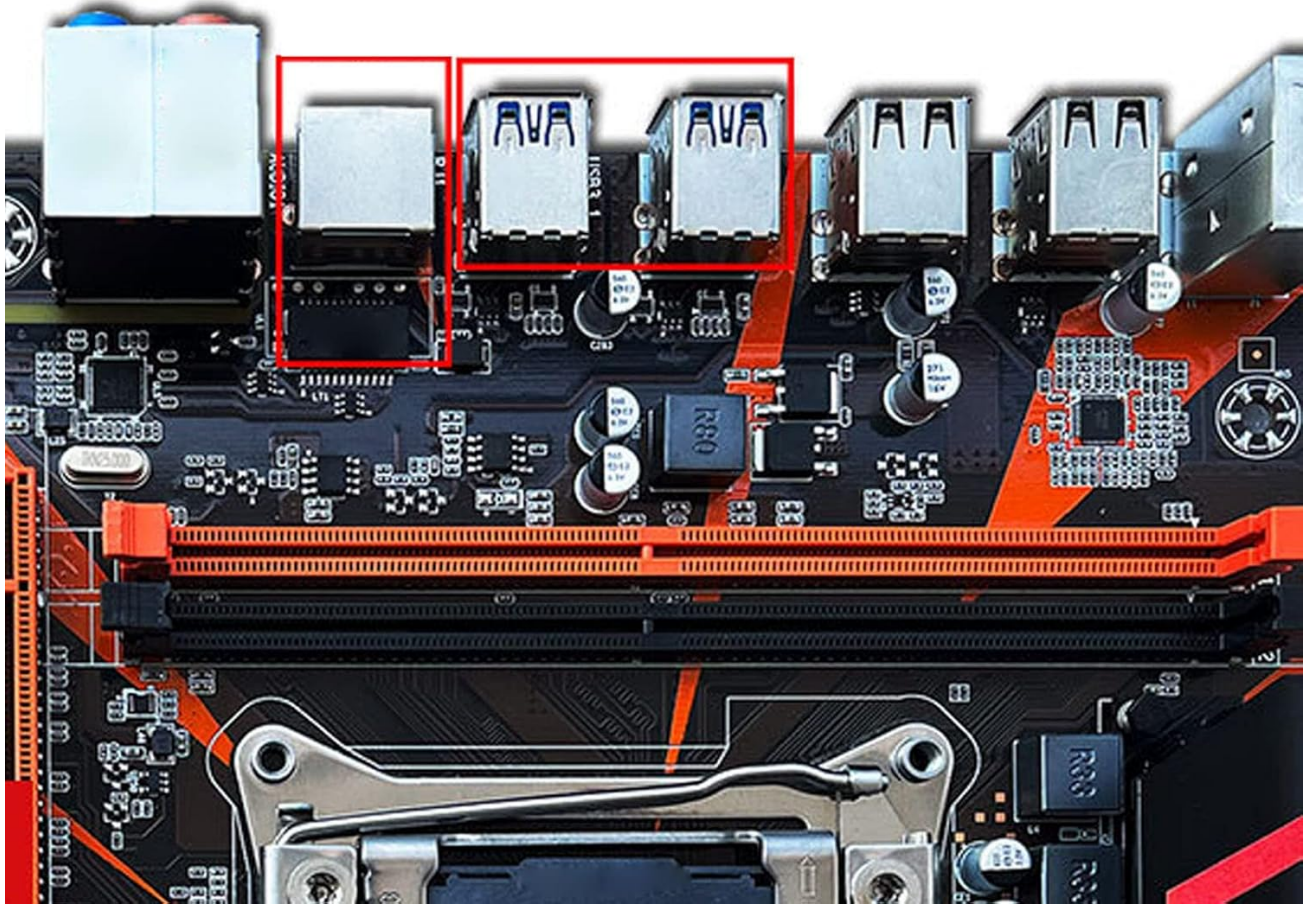
**power supply with modular heat dissipation**

**8 phase power ensures high stability**

**Figure 2.4:** The power supply area of the Dpofirs X99 Motherboard, featuring modular heat dissipation and an 8-phase power design to ensure high stability and efficient power delivery to components.

### 2.5 Rear I/O Ports

**4 x USB3.0 at the back, 100M or 1000M network card  
high speed connection  
Dual indicator design, stable and fast**



**Figure 2.5:** Detail of the rear I/O panel, specifically highlighting the 4 USB 3.0 ports, which provide high-speed connectivity for peripherals. The motherboard also features a 100M or 1000M network card for stable and fast dual indicator connection.

## 2.6 Product Videos



**Video 2.1:** A brief overview of the Dpofirs X99 Motherboard CPU Combo, showcasing its main features and design.



**Video 2.2:** A detailed look at the Dpofirs X99 Motherboard CPU Combo, highlighting its LGA 2011-3 E5 2620 V3 CPU and support for 4-channel DDR4 memory.

## 3. SETUP GUIDE

Follow these steps for proper installation of your Dpofirs X99 Motherboard CPU Combo:

### 3.1 CPU Installation

1. **Prepare the Socket:** Gently lift the CPU socket lever to open the retention mechanism.
2. **Align the CPU:** Carefully align the Intel Xeon E5 2620 V3 CPU with the LGA 2011-3 socket. Ensure the CPU notch corresponds to the bump on the CPU base and the triangle logo on the CPU aligns with the #1 position on the motherboard's CPU chassis silkscreen.

3. **Insert the CPU:** Place the CPU gently into the socket without forcing it. If it does not sit correctly, re-check alignment.
4. **Secure the CPU:** Lower the socket lever and push it down until it locks into place, securing the CPU.
5. **Install CPU Cooler:** Apply thermal paste (if not pre-applied) and install a compatible CPU cooler. Ensure it is securely mounted to prevent overheating.

**WARNING: Incorrect CPU installation can damage the CPU pins and motherboard, leading to system failure. Such damage may void your warranty.**

## 3.2 RAM Installation

1. **Open DIMM Slots:** Open the clips at both ends of the DDR4 DIMM slots.
2. **Align RAM Modules:** Align the notch on the DDR4 memory module with the key in the DIMM slot.
3. **Insert RAM:** Insert the memory module firmly into the slot until the clips snap into place. Ensure both clips are closed.
4. **Check Compatibility:** For optimal performance and stability, refer to the Qualified Vendor List (QVL) on the Dpofirs website to ensure your RAM modules are certified to work with this motherboard.

## 3.3 Power Connections

1. **24-pin ATX Power:** Connect the 24-pin ATX power cable from your power supply unit (PSU) to the corresponding connector on the motherboard.
2. **8-pin CPU Power:** Connect the 8-pin CPU power cable from your PSU to the 8-pin connector near the CPU socket. Both 24-pin and 8-pin power connectors must be connected simultaneously for the motherboard to function.

## 3.4 Peripheral Connections

1. **Storage Devices:** Connect your NVME M.2 SSDs to the M.2 interface and SATA hard drives/SSDs to the SATA3.0 ports using SATA cables.
2. **Front Panel Connectors:** Connect the power button, reset button, HDD LED, and power LED cables from your PC case to the corresponding pins on the motherboard's front panel header.
3. **USB and Audio:** Connect front panel USB and audio cables to their respective headers on the motherboard.
4. **Graphics Card:** If using a discrete graphics card, install it into a PCIe X16 slot and connect the necessary power cables from the PSU.
5. **Monitor:** Connect your monitor to the graphics card (if discrete) or the motherboard's integrated graphics output (if your CPU supports it).

# 4. OPERATING INSTRUCTIONS

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After completing the hardware installation, you can proceed with initial system boot-up.

## 4.1 Initial Boot-Up

1. **Power On:** Press the power button on your PC case.
2. **First Boot Delay:** The first boot may take 3-5 minutes as the motherboard reads RAM information. Please wait patiently.
3. **BIOS Access:** To enter the BIOS setup, press the **DEL** or **ESC** key during boot. For a one-time boot menu, press **F11**.
4. **Q-Code Display:** The digital status display (Q-code) will show various codes during boot. Once the system

boots and stabilizes, "AA" typically indicates normal operation.

## 5. MAINTENANCE

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Proper maintenance ensures the longevity and optimal performance of your motherboard.

- **Keep Clean:** Regularly clean dust from the motherboard and components using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Ensure Airflow:** Maintain good airflow within your PC case to prevent overheating. Ensure all fans are functioning correctly.
- **BIOS Updates:** Periodically check the Dpofirs website for BIOS updates to improve compatibility and performance.

## 6. TROUBLESHOOTING

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If you encounter issues, refer to the following troubleshooting steps:

### 6.1 System Fails to Power On

1. **Check CPU Installation:** Verify that the CPU is correctly installed in the socket, with proper alignment and no bent pins.
2. **Check RAM:** Ensure RAM modules are fully seated in their slots. If the motherboard alarms (beeps) without RAM, it indicates the motherboard is functioning. If it still won't turn on, try removing all RAM modules and powering on to check for an alarm.
3. **RAM Compatibility:** Confirm that your RAM is compatible with the motherboard by checking the Dpofirs Qualified Vendor List (QVL). Ensure RAM gold fingers are not oxidized and memory slots are free of dust.
4. **Power Connections:** Double-check that both the 24-pin ATX and 8-pin CPU power connectors are securely plugged into the motherboard.
5. **CMOS Reset:** If the system does not boot or displays unusual behavior, try resetting the CMOS. To do this, remove power from the machine, set the CMOS jumper to pins 2&3 for about 15 seconds, then return the jumper to 1&2, and power back on.

### 6.2 Overheating Issues

- **CPU Cooler:** Ensure your CPU cooler is properly installed and making good contact with the CPU. Verify that the fan is spinning.
- **Thermal Paste:** Check if thermal paste was correctly applied between the CPU and cooler.
- **Case Airflow:** Ensure adequate airflow within your PC case. Clean any dust buildup in fans or vents.



**Video 6.1:** General guidance on how to boot and troubleshoot a motherboard. While this video references a Q670 series, the principles for CPU and RAM installation, and initial power-on checks are broadly applicable to most motherboards.

## 7. SPECIFICATIONS

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Feature	Specification
Motherboard Chipset	X99 Series

Feature	Specification
CPU Socket	LGA 2011-3
Supported CPU Type	Intel Xeon E5 V3/V4, Intel i7 58xx/68xx Series (E5 2620 V3 CPU Included)
Memory Type	DDR4 2666/2400/2133MHz (4-channel)
Memory Slots	4 x DDR4 DIMM, Maximum 128GB
Extension Slots	2 x PCIe X16 GPU Slot, 3 x PCIe X1 Slot, 1 x WiFi Module Interface
Storage Interfaces	8 x SATA3.0 Interface, 1 x NVME M.2 Interface (PCIe)
I/O Interface	PS/2 Interface, 1 x RJ45 Gigabit Network Interface, 4 x USB 3.0, 4 x USB 2.0, Audio Interface
Audio Chip	Integrated 6 Channel Audio Chip
Power Supply	8-phase power with modular heat dissipation
Platform	Linux (Compatible with various operating systems)
Item Weight	2.11 pounds
Package Dimensions	12.76 x 10.12 x 1.97 inches

## 8. WARRANTY AND SUPPORT

For detailed warranty information, technical support, and driver downloads, please visit the official Dpofirs website or contact their customer service. Keep your purchase receipt for warranty claims.