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› [DIBTEBB](#) /

› DIBTEBB X99 Motherboard User Manual

DIBTEBB xion23xx

DIBTEBB X99 Motherboard User Manual

Model: xion23xx

1. PRODUCT OVERVIEW

This manual provides detailed instructions for the installation, operation, and maintenance of the DIBTEBB X99 TPM Computer Motherboard. This motherboard is designed for high-performance computing, featuring an LGA 2011-3 socket, DDR4 quad-channel memory support, NVME NGFF M.2 compatibility, and an X99 C612 chipset.



Figure 1.1: Top-down view of the DIBTEBB X99 Motherboard, showcasing its layout with the CPU socket, RAM slots, and various connectors.

2. PACKAGE CONTENTS

Upon opening the package, verify that all components are present and undamaged. The standard package includes:

- DIBTEBB X99 Motherboard
- Heatsink Adapter
- SATA Cable

If any items are missing or damaged, please contact your vendor immediately.

3. KEY FEATURES

The DIBTEBB X99 Motherboard offers a range of features designed for robust performance:

- **LGA 2011-3 Socket:** Supports compatible Intel processors.
- **Power Connectors:** Equipped with standard 8-pin and 24-pin power connectors for stable power delivery.
- **Solid-State Capacitors:** Utilizes all-solid-state capacitors for enhanced stability and durability.

- **NVME NGFF M.2 Compatibility:** Supports high-speed M.2 storage devices.
- **DDR4 Quad-Channel Memory:** Provides high bandwidth and lower power consumption compared to DDR3, ensuring system stability under load.



Figure 3.1: Visual representation of the motherboard highlighting key features such as LGA2011-3 socket, TPM 2.0 interface, DDR4 quad-channel support, NVME NGFF M.2, and X99 C612 chip.

DDR4 QUAD-CHANNEL MEMORY

DDR4 memory is not only faster, but also more energy efficient. Compared to the previous generation of DDR3 memory, DDR4 provides higher bandwidth and lower power consumption, ensuring that the system remains stable and reliable during long periods of high load operation

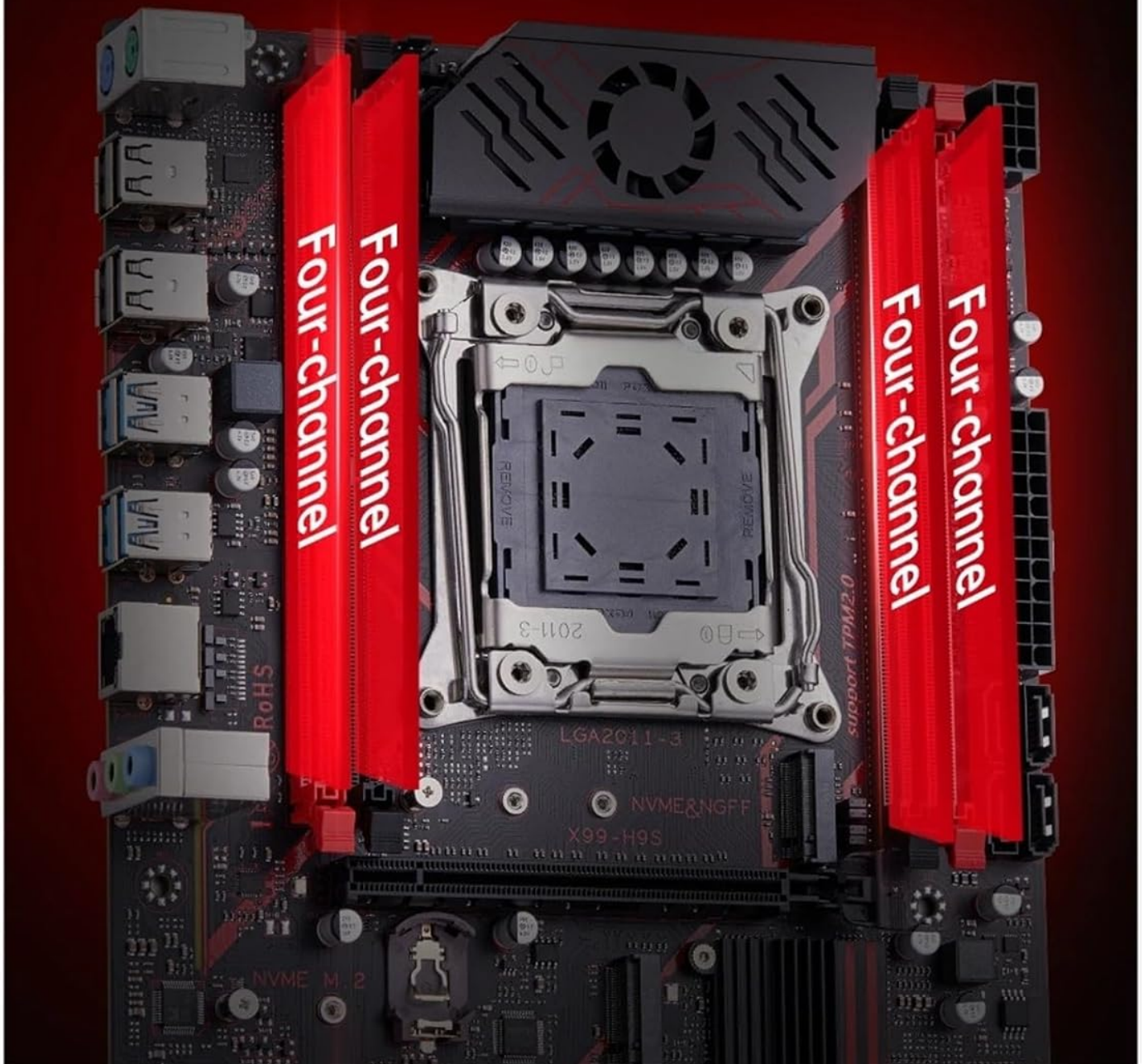


Figure 3.2: Close-up view emphasizing the DDR4 Quad-Channel memory slots, designed for improved speed and energy efficiency.

4. COMPONENT IDENTIFICATION

Familiarize yourself with the various ports and connectors on the motherboard before installation.

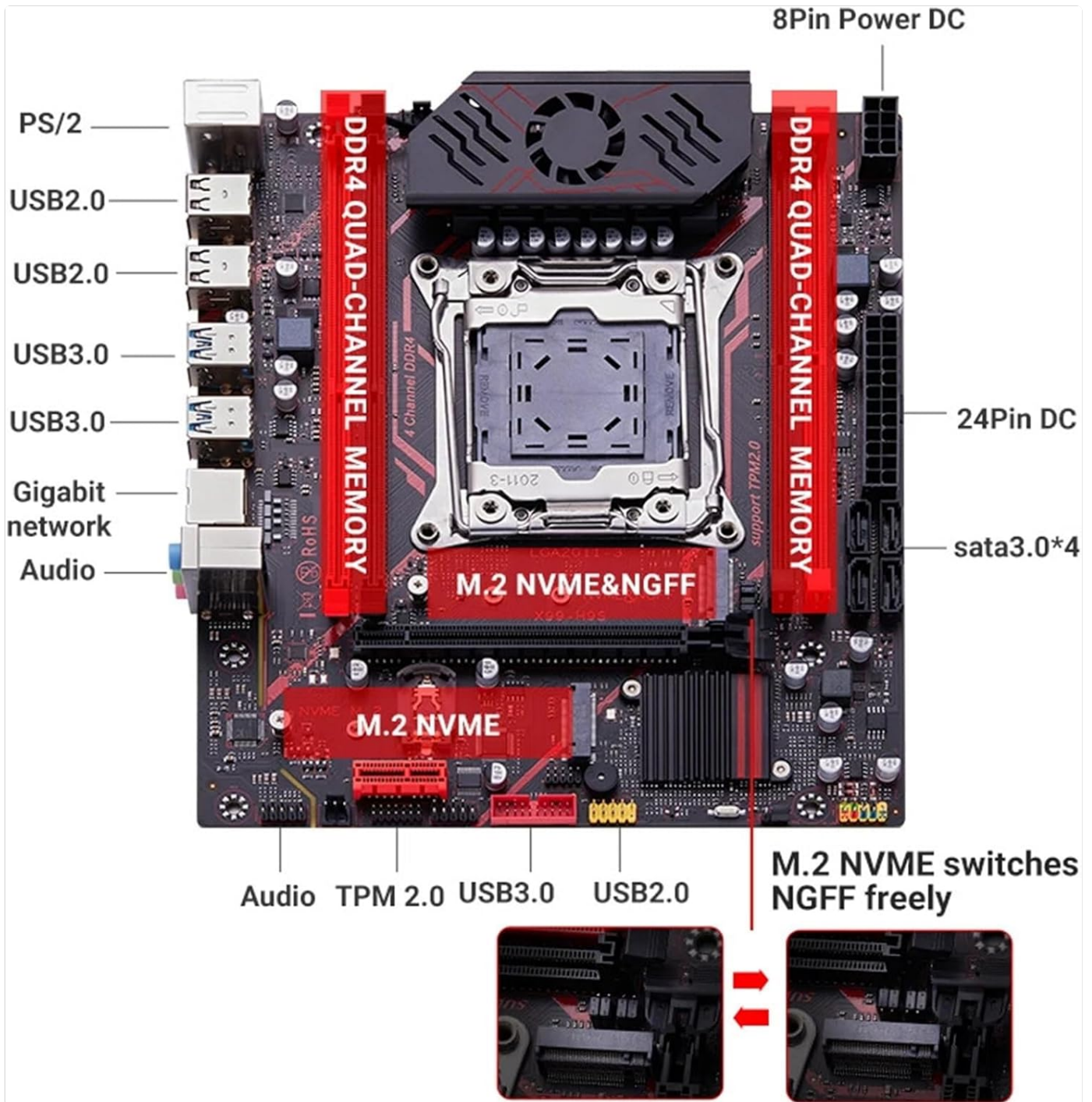


Figure 4.1: Detailed diagram of the motherboard indicating the location of various ports including PS/2, USB 2.0, USB 3.0, Gigabit network, Audio jacks, 8-pin and 24-pin power connectors, SATA 3.0 ports, M.2 NVME, and M.2 NVME/NGFF switch.



Figure 4.2: Close-up view of the rear I/O panel, showing the PS/2 ports, USB 2.0 ports, USB 3.0 ports, Gigabit Ethernet port, and audio jacks.

Front Panel Connectors

- **Front USB:** Ensure the front USB connector is inserted correctly into the designated yellow pin position on the motherboard. Incorrect insertion may prevent the computer from booting.
- **Power Outlet:** The motherboard requires both an 8-pin and a 24-pin power connector from the power supply unit (PSU).

5. SETUP AND INSTALLATION

Follow these steps carefully to install your DIBTEBB X99 Motherboard into your computer system.

5.1. Pre-Installation Checklist

- Ensure you have a compatible CPU (LGA 2011-3 socket).
- Prepare your computer case with adequate space and ventilation.
- Gather necessary tools: screwdriver, anti-static wrist strap (recommended).
- Unplug the power cord from your power supply unit before beginning installation.

5.2. Motherboard Installation

1. Carefully place the motherboard into the computer case, aligning it with the standoffs.
2. Secure the motherboard with screws.
3. Install the CPU into the LGA 2011-3 socket. Ensure proper alignment and gently close the retention mechanism.
4. Apply thermal paste to the CPU and install the CPU cooler/heatsink adapter.
5. Install DDR4 memory modules into the quad-channel slots. Refer to the motherboard diagram for correct slot population.
6. Connect the 24-pin ATX power connector and the 8-pin CPU power connector from your PSU to the motherboard.
7. Connect SATA devices (e.g., hard drives, SSDs) using the provided SATA cables to the SATA 3.0 ports.
8. Install NVME or NGFF M.2 SSDs into the designated M.2 slots.
9. Connect front panel headers (USB, audio, power switch, reset switch, LED indicators) to their respective pins on the motherboard. Pay close attention to the front USB header (yellow pin) as incorrect connection can prevent booting.
10. Install any expansion cards (e.g., graphics card) into the PCIe slots.

6. OPERATING INSTRUCTIONS

Once the motherboard and all components are installed, you can proceed with system operation.

6.1. Initial Boot-up

1. Double-check all connections to ensure they are secure.
2. Connect your monitor, keyboard, and mouse.
3. Plug in the power cord to your PSU and turn on the power switch.
4. Press the power button on your computer case.
5. The system should power on and display the BIOS/UEFI screen.

6.2. BIOS/UEFI Configuration

Access the BIOS/UEFI setup by pressing the designated key (usually **Del** or **F2**) during boot-up. Here you can configure boot order, system time, and other hardware settings.

6.3. Operating System Installation

Install your preferred operating system (e.g., Windows, Linux) from a bootable USB drive or DVD. Follow the on-screen prompts for installation.

6.4. Driver Installation

After OS installation, install the necessary drivers for the motherboard chipset, network, audio, and any other integrated components. These are typically provided on a driver CD or can be downloaded from the manufacturer's website.

7. MAINTENANCE

Proper maintenance ensures the longevity and stable operation of your motherboard.

- **Dust Removal:** Regularly clean dust from inside your computer case, especially from fans and heatsinks, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Temperature Monitoring:** Monitor CPU and system temperatures to prevent overheating. Ensure proper airflow within the case.
- **BIOS/UEFI Updates:** Periodically check the manufacturer's website for BIOS/UEFI updates. Updates can improve compatibility, stability, and performance. Follow update instructions carefully to avoid system damage.
- **Driver Updates:** Keep your drivers updated to ensure optimal performance and compatibility with new software and hardware.

8. TROUBLESHOOTING

This section provides solutions to common issues you might encounter.

Problem	Possible Cause	Solution
System does not boot / No display.	Incorrect power connections. Improperly seated CPU or RAM. Incorrect front panel USB connection. Faulty power supply.	Ensure 8-pin and 24-pin power connectors are fully seated. Reseat CPU and RAM modules. Verify front USB header is connected to the correct yellow pin. Test with a known good PSU.
System powers on but no POST (Power-On Self-Test).	CPU or RAM issue. BIOS corruption.	Try booting with one RAM stick at a time. Clear CMOS (refer to motherboard manual for jumper/button location).
USB devices not recognized.	Missing or outdated USB drivers. Incorrect front panel USB connection.	Install/update USB drivers from the manufacturer's website. Check front panel USB header connection.

For further assistance, consult the manufacturer's support resources or a qualified technician.

9. SPECIFICATIONS

Feature	Detail
Brand	DIBTEBB
Model Name	xion23xx
Socket Type	LGA 2011-3
Chipset	X99 C612chip
Memory Type	DDR4 Quad-Channel
Storage Interface	NVME NGFF M.2, SATA 3.0
Power Connectors	8-pin, 24-pin
Item Weight	1.76 ounces (approx. 50 grams)
Package Dimensions	1.18 x 0.79 x 0.39 inches
First Available Date	April 14, 2025

10. WARRANTY AND SUPPORT

Information regarding product warranty and specific support contacts is not provided in the available product data. Please refer to the product packaging or the official DIBTEBB website for warranty details and customer support options. For general inquiries or technical assistance, you may also contact your point of purchase.