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Bewinner X79

Bewinner X79 LGA 2011 Quad Channel DDR3 ATX Motherboard User Manual

Model: X79 | Brand: Bewinner | Model Number: Bewinner2ewbpd8cgi

1. INTRODUCTION

This manual provides comprehensive instructions for the installation, configuration, and maintenance of your Bewinner X79 LGA 2011 Quad Channel DDR3 ATX Motherboard. Designed for desktop PCs, this motherboard supports E5 V2 type processors and features quad-channel DDR3 memory, SATA 3.0, M.2 NVMe interface, and USB 3.0 connectivity. Please read this manual carefully before proceeding with installation to ensure proper setup and optimal performance.



Image 1.1: Overview of the Bewinner X79 LGA 2011 Quad Channel DDR3 ATX Motherboard.

2. SAFETY INFORMATION

- Always disconnect the power supply from the wall outlet before installing or removing any components.
- Wear an anti-static wrist strap or frequently touch a grounded object to prevent electrostatic discharge (ESD) damage to components.
- Handle the motherboard by its edges to avoid touching sensitive components.
- Ensure proper ventilation within your PC case to prevent overheating.
- Keep the motherboard and components away from moisture and extreme temperatures.

3. PACKAGE CONTENTS

Verify that all items listed below are present in your package. If any item is missing or damaged, contact your retailer.

- 1 x Bewinner X79 Computer Motherboard
- 1 x Metal Backplate (I/O Shield)

- 1 x Bracket (CPU Cooler Mounting Bracket)
- 1 x Connection Cable (likely SATA data cable)
- 10 x Screws (for mounting components)



Image 3.1: Contents of the Bewinner X79 Motherboard package, including the motherboard, I/O shield, CPU cooler bracket, connection cable, and screws.

4. MOTHERBOARD LAYOUT AND COMPONENTS

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

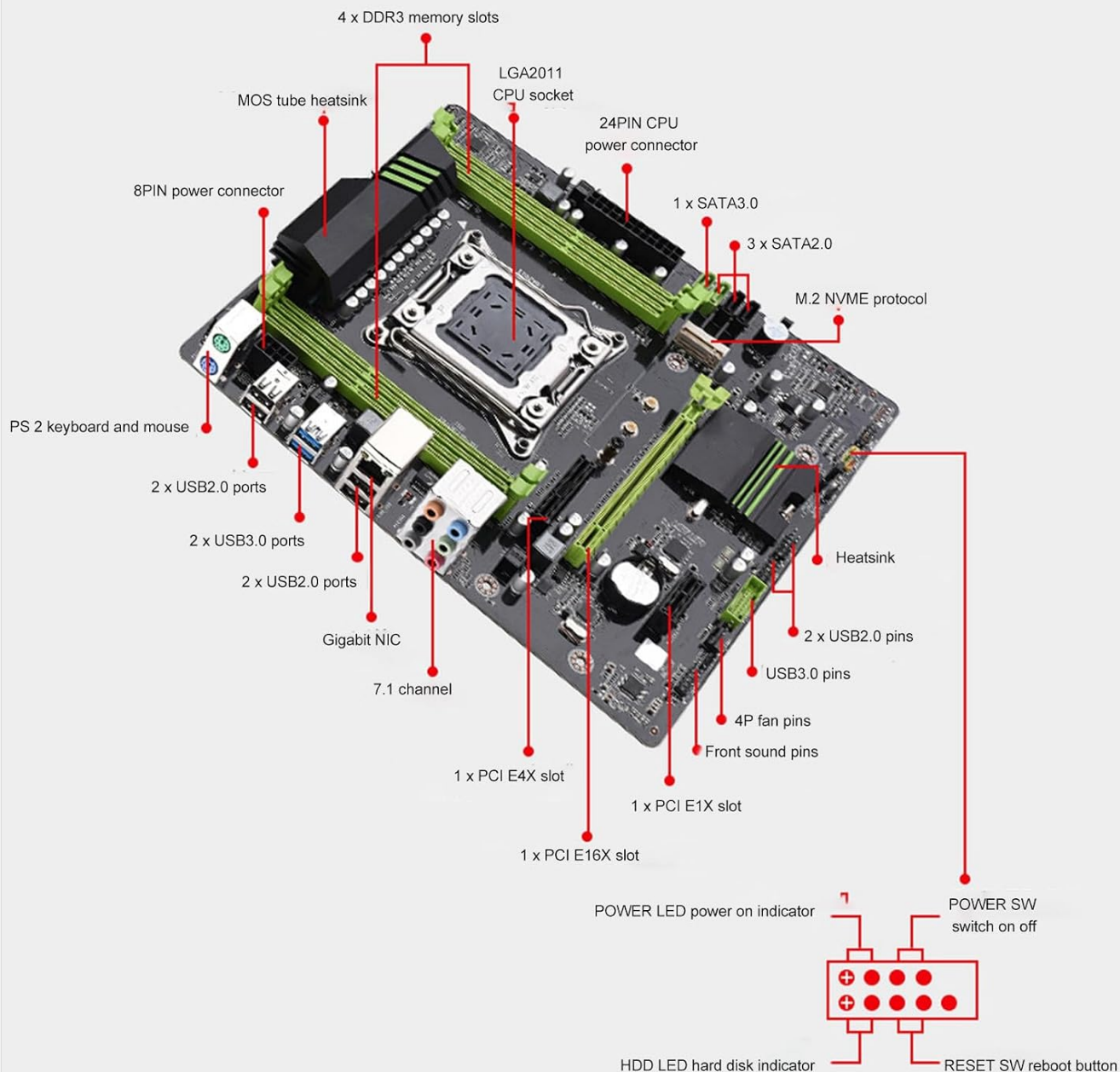


Image 4.1: Labeled diagram of the Bewinner X79 Motherboard, highlighting key components and connectors.

- **LGA 2011 CPU Socket:** For Intel E5 V2 series processors.
- **4 x DDR3 Memory Slots:** Supports quad-channel DDR3 RAM up to 64GB total capacity.
- **1 x PCI E 16X Slot:** For graphics cards.
- **1 x PCI E 4X Slot:** For expansion cards.
- **1 x PCI E 1X Slot:** For expansion cards.
- **1 x SATA 3.0 Port:** High-speed data transfer for storage devices.
- **3 x SATA 2.0 Ports:** For additional storage devices.
- **M.2 NVMe Interface:** Supports high-speed M.2 SSDs with up to 32GB/s data transfer.
- **24-pin ATX Power Connector:** Main power input from the power supply.
- **8-pin CPU Power Connector:** Dedicated power for the CPU.
- **USB 3.0 Ports (Rear I/O):** Two ports for high-speed peripherals.
- **USB 2.0 Ports (Rear I/O):** Four ports for peripherals.

- **USB 3.0 Header (Front Panel):** One header for two front panel USB 3.0 ports.
- **USB 2.0 Headers (Front Panel):** Two headers for four front panel USB 2.0 ports.
- **Gigabit NIC:** Integrated network interface controller.
- **7.1 Channel Audio:** High-definition audio output.
- **PS/2 Keyboard/Mouse Interface:** For legacy PS/2 peripherals.
- **CMOS Battery:** CR2032 battery for BIOS settings retention.

5. SETUP INSTRUCTIONS

5.1. CPU Installation

1. Carefully open the CPU socket retention lever.
2. Align the CPU (LGA 2011) with the socket, ensuring the gold triangle on the CPU matches the triangle on the socket.
3. Gently place the CPU into the socket without forcing it.
4. Close the retention lever to secure the CPU.
5. Apply thermal paste to the CPU surface and install the CPU cooler.

5.2. RAM (Memory) Installation

1. Open the clips at both ends of the DDR3 memory slots.
2. Align the memory module with the slot, ensuring the notch on the module matches the key in the slot.
3. Press down firmly on both ends of the memory module until the clips snap into place.
4. For quad-channel performance, refer to the motherboard's silkscreen for recommended slot population.

5.3. Storage Device Installation (SATA & M.2)

1. **SATA Drives:** Connect one end of a SATA data cable to a SATA port on the motherboard and the other end to your HDD/SSD. Connect a SATA power cable from your power supply to the drive.
2. **M.2 NVMe SSD:** Insert the M.2 SSD into the M.2 slot at an angle. Push it down and secure it with the provided screw.

5.4. Graphics Card Installation

1. Locate the PCI E 16X slot.
2. Remove the corresponding expansion slot cover from your PC case.
3. Align the graphics card with the slot and press down firmly until it is fully seated and the retention clip locks.
4. Secure the graphics card to the case with a screw.
5. Connect any necessary PCIe power cables from your power supply to the graphics card.

5.5. Power Supply Connections

- Connect the 24-pin ATX power cable from your power supply to the 24-pin connector on the motherboard.
- Connect the 8-pin CPU power cable from your power supply to the 8-pin connector near the CPU socket.

5.6. Front Panel Connections

Connect the cables from your PC case's front panel (USB, audio, power button, reset button, HDD LED, power LED) to

the corresponding headers on the motherboard. Refer to the motherboard layout diagram (Image 4.1) for header locations.

6. OPERATING INSTRUCTIONS

6.1. First Boot and BIOS Setup

1. After assembling all components, connect your monitor, keyboard, and mouse.
2. Connect the power cable to your power supply and turn on the power switch.
3. Press the power button on your PC case.
4. During startup, repeatedly press the **DEL** or **F2** key (check your screen for the exact key) to enter the BIOS/UEFI setup utility.
5. In the BIOS, configure boot order, date/time, and other system settings as needed. Save changes and exit.

6.2. Operating System Installation

Insert your operating system installation media (USB drive or DVD) and follow the on-screen instructions to install your preferred operating system (e.g., Windows 10). Ensure the boot order in BIOS is set to prioritize your installation media.

6.3. Driver Installation

After installing the operating system, install the necessary drivers for the motherboard's components (chipset, network, audio, USB 3.0, etc.). These drivers are typically provided on a CD/DVD with the motherboard or can be downloaded from the manufacturer's website.

7. MAINTENANCE

- **Cleaning:** Regularly clean dust from inside your PC case, especially from CPU cooler fins, case fans, and motherboard surfaces, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **BIOS Updates:** Periodically check the manufacturer's website for BIOS updates. BIOS updates can improve stability, compatibility, and performance. Follow the update instructions carefully to avoid system damage.
- **Component Checks:** Ensure all cables are securely connected and components are properly seated.

PCB MATERIAL THICK AND DURABLE

Good signal
isolation

Better electrical
performance

More stable
performance

Longer life span



Image 7.1: Illustration of the motherboard's durable PCB material, contributing to stable performance and longer lifespan.

8. TROUBLESHOOTING

- **No Power:**

- Check if the power supply is connected to the wall outlet and turned on.
- Ensure the 24-pin and 8-pin power connectors are securely attached to the motherboard.
- Verify the front panel power button cable is correctly connected to the motherboard header.

- **No Display:**

- Ensure the monitor is connected to the graphics card (or integrated graphics if applicable) and powered on.
- Reseat the graphics card and memory modules.
- Try booting with only one RAM stick.

- **System Instability/Crashes:**

- Check CPU and GPU temperatures. Ensure adequate cooling.
 - Verify all drivers are installed and up to date.
 - Run memory diagnostic tools to check for faulty RAM.
- **Peripheral Not Detected:**
 - Try connecting the peripheral to a different USB port.
 - Ensure the necessary drivers for the peripheral are installed.
 - Check BIOS settings for USB port enablement.

9. SPECIFICATIONS

Feature	Specification
Brand	Bewinner
Motherboard Model	X79
Motherboard Type	ATX
CPU Socket	LGA 2011 (Supports E5 V2 type processors)
Memory Slots	4 x DDR3 (Quad Channel)
Max Memory Capacity	64GB
Graphics Card Slot	1 x PCI E 16X
Expansion Slots	1 x PCI E 4X, 1 x PCI E 1X
Hard Drive Interface	1 x SATA 3.0, 3 x SATA 2.0, M.2 NVMe Interface
M.2 Data Transfer Speed	Up to 32GB/s
USB Interfaces (Rear I/O)	2 x USB 3.0, 4 x USB 2.0
USB Headers (Front Panel)	1 x USB 3.0 header, 2 x USB 2.0 headers
Network Card	Gigabit Adaptive Network Card
Audio Channel	7.1 HD Audio
PS/2 Interface	1 x PS/2 Keyboard/Mouse Interface

Feature	Specification
Power Connectors	1 x 8-pin, 1 x 24-pin
Material	PCB
Integrated Battery	CR2032 x 1 (240 mAh)
Compatible Processors	Intel Core i7-3960X, i7-3930K, i7-3820, i7-3970X, i7-4960X, i7-4930K, i7-4820K, i7-5960X, i7-5930K, i7-5820K (and other E5 V2 type processors)
Compatible Devices	Personal Computer
RAM Technology	DDR3
Chipset Type	Intel C602
Platform	Windows 10 (Compatible)



4 channel DDR3
Support 64G memory capacity,
significantly improving the
performance of the motherboard



Full speed M.2 hard drive interface
M.2 supports 32GB/s data transfer
speed for OS and application
drivers



Front USB3.0 interface
Immediately experience 10x faster
data transfer speeds than USB 2.0
with Plug and Play functionality



7.1 restored real sound channel
HD sound processor and sound
capacitor to restore the real sound
Ensure the sound signal is more
pure



SATA3.0 high speed interface
Fast boot without waiting, strong
compatibility, SATA2.O upgrade,
get better reading speed



Luxury high power cooling iron
High energy cooling, no fear of high
temperature, enhanced cooling
design to ensure higher CPU
running at full speed

Image 9.1: Visual summary of key features including 4-channel DDR3, M.2 32GB/s, USB 3.0, 7.1 HD audio, SATA 3.0, and high-power cooling design.

10. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact your retailer. For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact Bewinner customer service or your point of purchase.

Please retain your proof of purchase for warranty purposes.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

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.

Submit question