

HUANANZHI X79 Dual-16D

HUANANZHI X79 Dual-16D Motherboard User Manual

Unleash Limitless Potential with the X79 Dual-16D

1. INTRODUCTION

The HUANANZHI X79 Dual-16D Motherboard is engineered to provide an expansive and powerful platform for high-performance computing. Designed to support Intel LGA2011 processors, this E-ATX motherboard features an impressive 16 DDR3 memory slots, enabling extensive memory configurations up to 16x32GB in four-channel mode. With robust power delivery, comprehensive expansion options including multiple PCIe 3.0 slots, and versatile storage interfaces, the X79 Dual-16D is built for demanding applications and seamless multitasking. This manual provides essential information for the proper installation, operation, and maintenance of your motherboard.



Image: The HUANANZHI X79 Dual-16D Motherboard alongside its retail packaging.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- 1 x HUANANZHI X79 Dual-16D Motherboard
- 1 x SATA Data Cable
- 1 x Warranty Card

3. MOTHERBOARD LAYOUT

Familiarize yourself with the key components and connectors on your HUANANZHI X79 Dual-16D Motherboard.

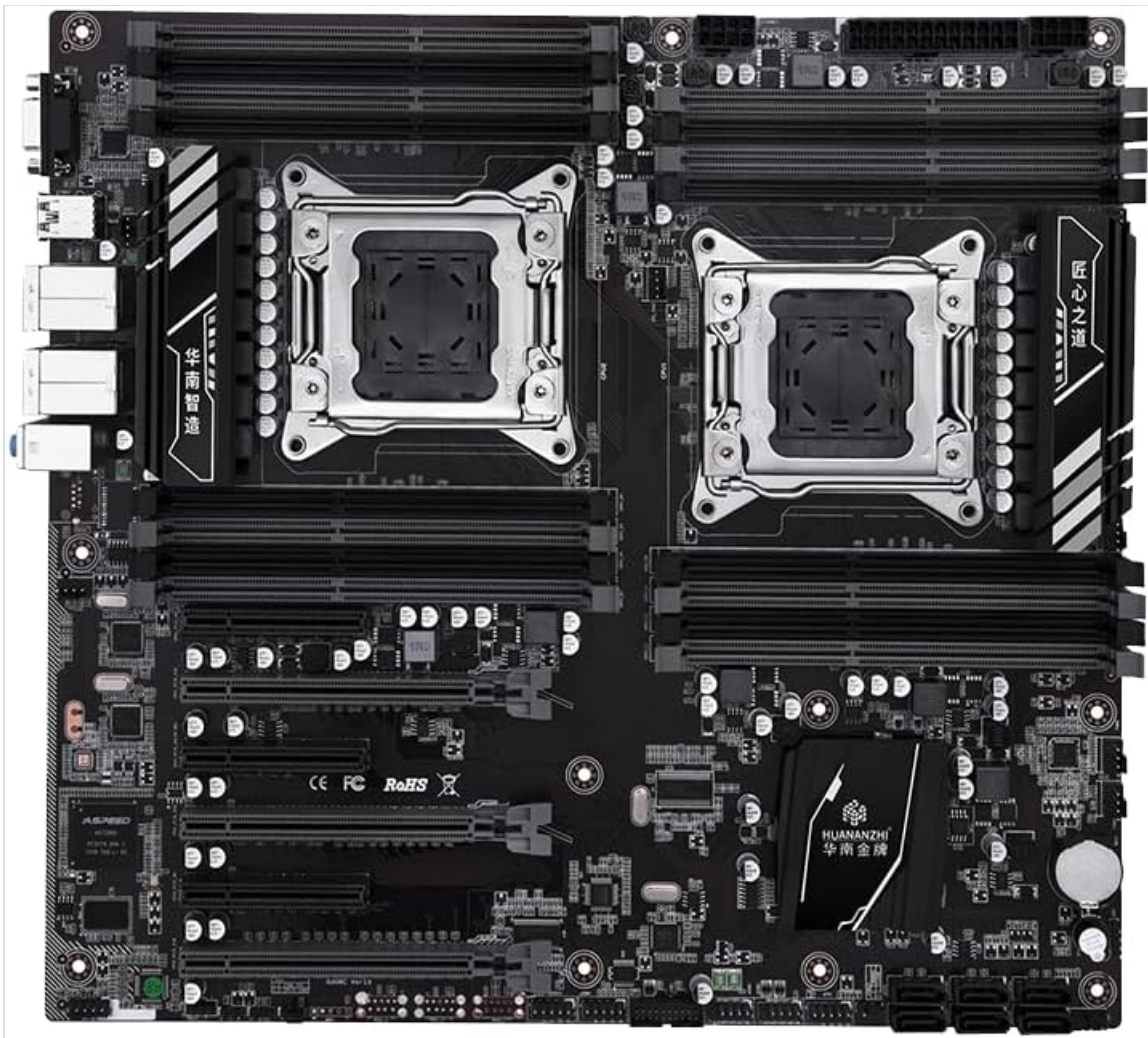


Image: Top-down view of the HUANANZHI X79 Dual-16D Motherboard, highlighting dual CPU sockets, 16 DDR3 memory slots, and various expansion slots.

- **Dual LGA2011 CPU Sockets:** For Intel LGA2011 processors.
- **16x DDR3 Memory Slots:** Supports four-channel DDR3 memory up to 1866MHz.
- **PCI Express Slots:** Includes 3x PCIe 3.0 x16, 2x PCIe 3.0 x8, and 1x PCIe 3.0 x4 for graphics cards and other expansion cards.
- **SATA Ports:** 4x SATA2.0 (3Gbps) and 2x SATA3.0 (6Gbps) for storage devices.
- **Power Connectors:** 24-pin ATX, 2x 8-pin EPS for CPU power.
- **Fan Headers:** 2x CPU_FAN and 6x SYS_FAN for cooling solutions.
- **Front Panel Headers:** USB 2.0, USB 3.0, and Audio headers for case connectivity.

4. INSTALLATION GUIDE

4.1. CPU Installation

1. Carefully open the CPU socket retention arm.
2. Align the CPU 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 arm to secure the CPU.
5. Apply thermal paste and install the CPU cooler.

4.2. Memory (RAM) Installation

1. Open the clips at both ends of the DDR3 memory slots.
2. Align the notch on the DDR3 memory module with the key in the memory slot.
3. Press down firmly on both ends of the memory module until the clips snap into place.

4.3. Storage (SATA) Connection

Connect your SATA hard drives or SSDs to the available SATA 2.0 (3Gbps) or SATA 3.0 (6Gbps) ports using the provided SATA data cable.

4.4. Expansion Card Installation

Insert your graphics card or other PCIe expansion cards into the appropriate PCI Express slots (x16, x8, or x4) and secure them with the case's retention mechanism.

4.5. Power Supply Connection

Connect the 24-pin ATX power connector and the two 8-pin EPS CPU power connectors from your power supply to the corresponding ports on the motherboard.

4.6. Front Panel Connections

Connect the cables from your PC case's front panel (USB 2.0, USB 3.0, audio, power button, reset button, HDD LED, power LED) to the corresponding headers on the motherboard. Refer to your case manual for specific pin assignments.

4.7. Rear I/O Connections

Connect your peripherals to the rear I/O panel:



Image: Close-up view of the rear I/O panel, showing PS/2 ports, USB 2.0/3.0 ports, Gigabit Ethernet ports, and 5.1 audio jacks.

- **PS/2 Ports:** For legacy mouse and keyboard.
- **USB 2.0 Ports (4x):** For general USB devices.
- **USB 3.0 Ports (2x):** For high-speed USB devices.
- **RJ45 Network Ports (2x):** For Gigabit Ethernet connectivity.
- **Audio Jacks (3-hole):** For 5.1 channel audio output.

5. OPERATING SYSTEM AND BIOS

5.1. BIOS Setup

The motherboard features an AMI UEFI BIOS. To enter the BIOS setup utility, press the **DEL** key during system startup. The BIOS allows you to configure system settings, boot order, and monitor hardware status.

5.2. Operating System Installation

The HUANANZHI X79 Dual-16D Motherboard supports Windows 7, Windows 10, and Windows 11. Ensure you

have the necessary installation media and drivers for your chosen operating system.

6. MAINTENANCE

To ensure the longevity and optimal performance of your motherboard:

- Keep the system clean and free of dust. Regularly clean fan filters and internal components using compressed air.
- Ensure adequate airflow within your PC case to prevent overheating.
- Periodically check for and install the latest BIOS updates and drivers from the manufacturer's website.
- Avoid exposing the motherboard to extreme temperatures or humidity.

7. TROUBLESHOOTING

If you encounter issues, consider the following common troubleshooting steps:

- **No Power:** Check all power connections (24-pin ATX, 8-pin EPS, GPU power). Ensure the power supply is switched on.
- **No Display:** Verify that the graphics card is properly seated in its PCIe slot and connected to power. Test with a different monitor or cable.
- **System Instability/Crashes:** Check RAM seating and test memory modules individually. Ensure CPU cooler is properly installed and thermal paste is applied. Monitor temperatures.
- **Boot Issues:** Check boot order in BIOS. Ensure storage drives are properly connected and detected.
- **Peripheral Not Detected:** Try different USB ports. Ensure drivers are installed for the peripheral.

For persistent issues, consult the HUANANZHI support resources or a qualified technician.

8. SPECIFICATIONS

Feature	Specification
Model	HUANANZHI X79 Dual-16D Motherboard
CPU Socket	Intel LGA2011
Memory Slots	16x DDR3
Memory Standard	Four channels DDR3 1866/1600/1333MHz, Max support 16*32GB
Storage Interface	4x SATA2.0 3Gbps, 2x SATA3.0 6Gbps
Expansion Slots	3x PCI Express3.0x16, 2x PCI Express3.0x8, 1x PCI Express3.0x4
Sound Track	5.1 Channel Audio
Network Card	Gigabit Ethernet (2x RJ45)
Power Interface	24PIN + 8PIN + 8PIN
FAN PINs	2x CPU_FAN, 6x SYS_FAN

Feature	Specification
Power Supply	7+7-phase power supply
PCB Layers	12-layer PCB
Dimension	305*330MM (E-ATX)
Rear Panel Interface	PS/2 Mouse and Keyboard, 4x USB2.0, 2x USB3.0, 1x 3-hole audio, 2x RJ45
Front Panel Interface	2x USB2.0 PIN, 1x USB3.0 PIN, 1x Front audio PIN
Supported Systems	Windows 7, Windows 10, Windows 11
BIOS	AMI UEFI BIOS

9. WARRANTY AND SUPPORT

Your HUANANZHI X79 Dual-16D Motherboard comes with a warranty. Please refer to the included Warranty Card for detailed terms and conditions regarding warranty coverage and service. For technical support, driver downloads, and further assistance, please visit the official HUANANZHI website or contact their customer service department.

For additional information and resources, you may visit the [HUANANZHI Store on Amazon](#).