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> Zunate X99H Motherboard LGA2011-3 User Manual

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Zunate X99H Motherboard LGA2011-3 User Manual

Model: X99H (Zunatear2wnouip9)

1. PRODUCT OVERVIEW

The Zunate X99H Motherboard is designed for high-performance desktop computing, supporting LGA 2011-3 CPUs including E5 V3, E5 V4, i7 58xx, and i7 68xx series processors. It features four DDR4 DIMM slots, allowing for a maximum memory capacity of 128GB, with support for DDR4 2666, 2400, and 2133MHz memory types. This mATX form factor motherboard includes M.2 NVMe and SATA3 interfaces for storage, USB 3.0 connectivity, and integrated HD multimedia and VGA interfaces for display output. The design incorporates solid capacitors for enhanced stability and extended lifespan.



Figure 1: Zunate X99H Motherboard - Top View. This image displays the overall layout of the motherboard, including the LGA 2011-3 CPU socket, four DDR4 DIMM slots, PCIe slots, and various headers and ports.

2. SETUP AND INSTALLATION

Follow these steps for proper installation of your Zunate X99H Motherboard and its components.

2.1 CPU Installation

1. **Prepare the CPU Socket:** Gently lift the CPU retention lever on the LGA 2011-3 socket.
2. **Align the CPU:** Carefully align your LGA 2011-3 CPU (E5 V3/V4, i7 58xx/68xx series) with the socket, ensuring the triangular markers on the CPU and socket match. Do not force the CPU into place.
3. **Secure the CPU:** Lower the CPU into the socket. Close the retention lever until it clicks into place.
4. **Install CPU Cooler:** Apply thermal paste (if not pre-applied) and install your compatible CPU cooler according to its manufacturer's instructions.

STRONG COMPATIBILITY

CPU socket for LGA 2011 3, support for CPU type E5 V3 V4, i7 58xx, 68xx series, one 8 pin power socket and one 24 pin power socket.

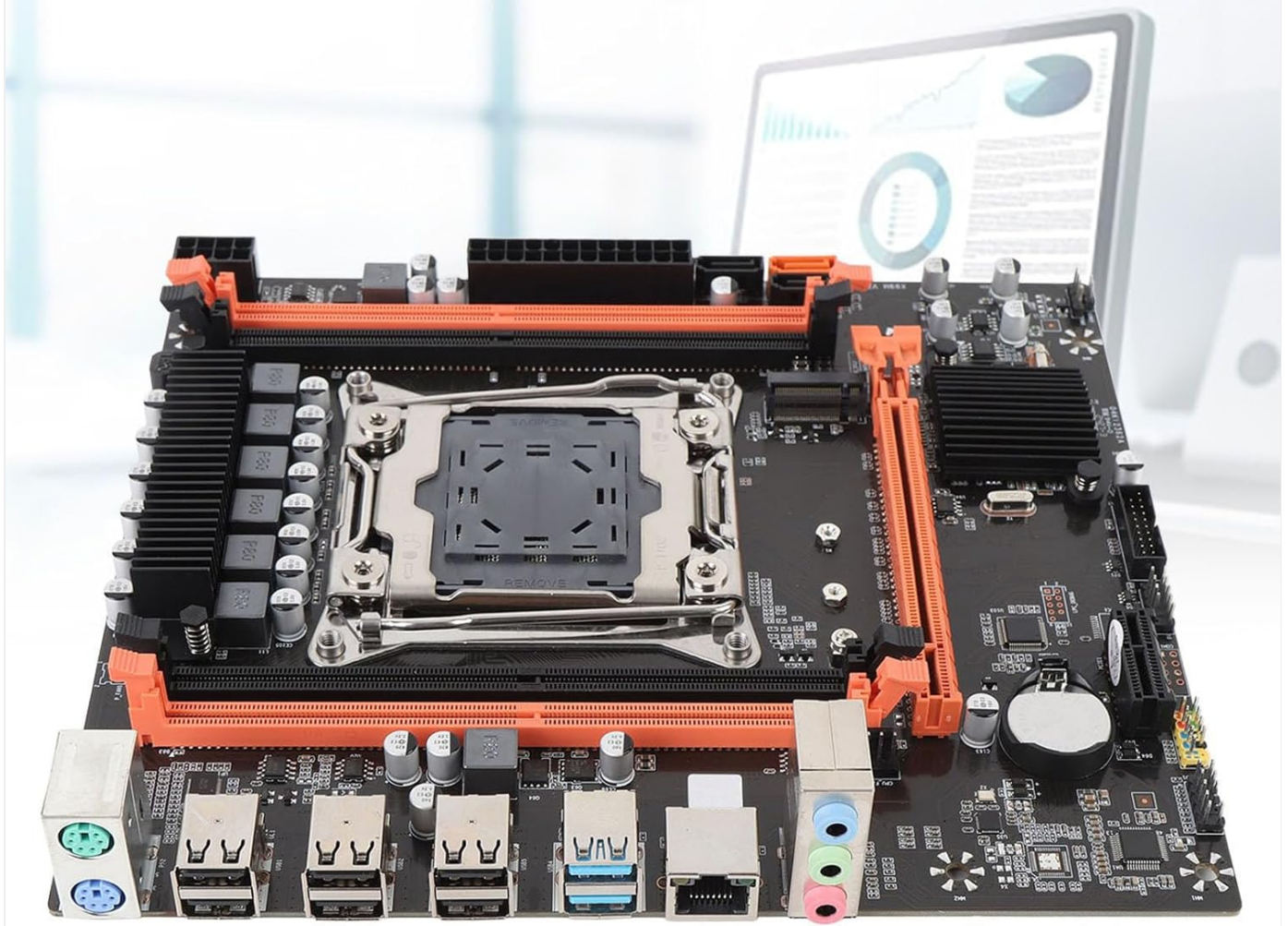


Figure 2: CPU Socket Compatibility. This image emphasizes the LGA 2011-3 CPU socket, compatible with E5 V3/V4 and i7 58xx/68xx series processors, and shows the 8-pin and 24-pin power sockets.

2.2 Memory (RAM) Installation

1. **Open DIMM Latches:** Open the retention clips at both ends of the DDR4 DIMM slots.
2. **Align RAM Modules:** Align the notch on your DDR4 memory module with the key in the DIMM slot.
3. **Insert RAM:** Press down firmly on both ends of the memory module until the retention clips snap into place.
4. **Install Multiple Modules:** For optimal performance, refer to your CPU and memory manufacturer's guidelines for dual or quad-channel memory configuration.

IMPRESSIVE MEMORY SUPPORT

Computer motherboards support 4×DDR4 DIMMs with a maximum capacity of 128G, memory types is DDR4 2666, 2400, 2133MHz.



Figure 3: Memory Support. This image highlights the four DDR4 DIMM slots, capable of supporting up to 128GB of DDR4 2666/2400/2133MHz memory.

2.3 Storage Device Installation

• M.2 NVMe/SATA SSD:

- Locate the M.2 slot on the motherboard.
- Insert the M.2 SSD into the slot at an angle.
- Gently push down the SSD and secure it with the provided screw.
- Ensure the jumper switch for the M.2 interface is set correctly for either Serial ATA or PCIe protocol, depending on your M.2 device.

• Serial ATA (SATA) Devices:

- Connect one end of a SATA data cable to a SATA port on the motherboard (2 x SATA2.0, 1 x SATA3.0).
- Connect the other end of the SATA data cable to your SATA hard drive or SSD.
- Connect a SATA power cable from your power supply unit (PSU) to the SATA device.

SERIAL ATA PORTS INCLUDED

Desktop motherboard supports Serial ATA port, which is compact and easy to install. It is easy to use and has high compatibility.



Figure 4: Storage Connectivity. This image shows the Serial ATA ports and the M.2 slot, supporting NGFF and NVME protocols for various storage solutions.

2.4 Power Connections

- **24-pin ATX Power:** Connect the main 24-pin power cable from your PSU to the 24-pin power socket on the motherboard.
- **8-pin CPU Power:** Connect the 8-pin (or 4+4 pin) CPU power cable from your PSU to the 8-pin power socket near the CPU.

2.5 Peripheral Connections

- **Graphics Card:** Insert your PCI Express 16X graphics card into the designated slot and secure it.
- **Front Panel Connectors:** Connect the power switch, reset switch, HDD LED, power LED, and front panel USB/audio headers to their respective pins on the motherboard. Refer to the motherboard's silkscreen labels for correct orientation.
- **USB Devices:** Connect USB 2.0 and USB 3.0 devices to the rear I/O panel ports.
- **Network:** Connect an Ethernet cable to the RJ45 network interface.
- **Display:** Connect your monitor to the graphics card or the integrated HD multimedia/VGA interfaces if using integrated

graphics (CPU dependent).

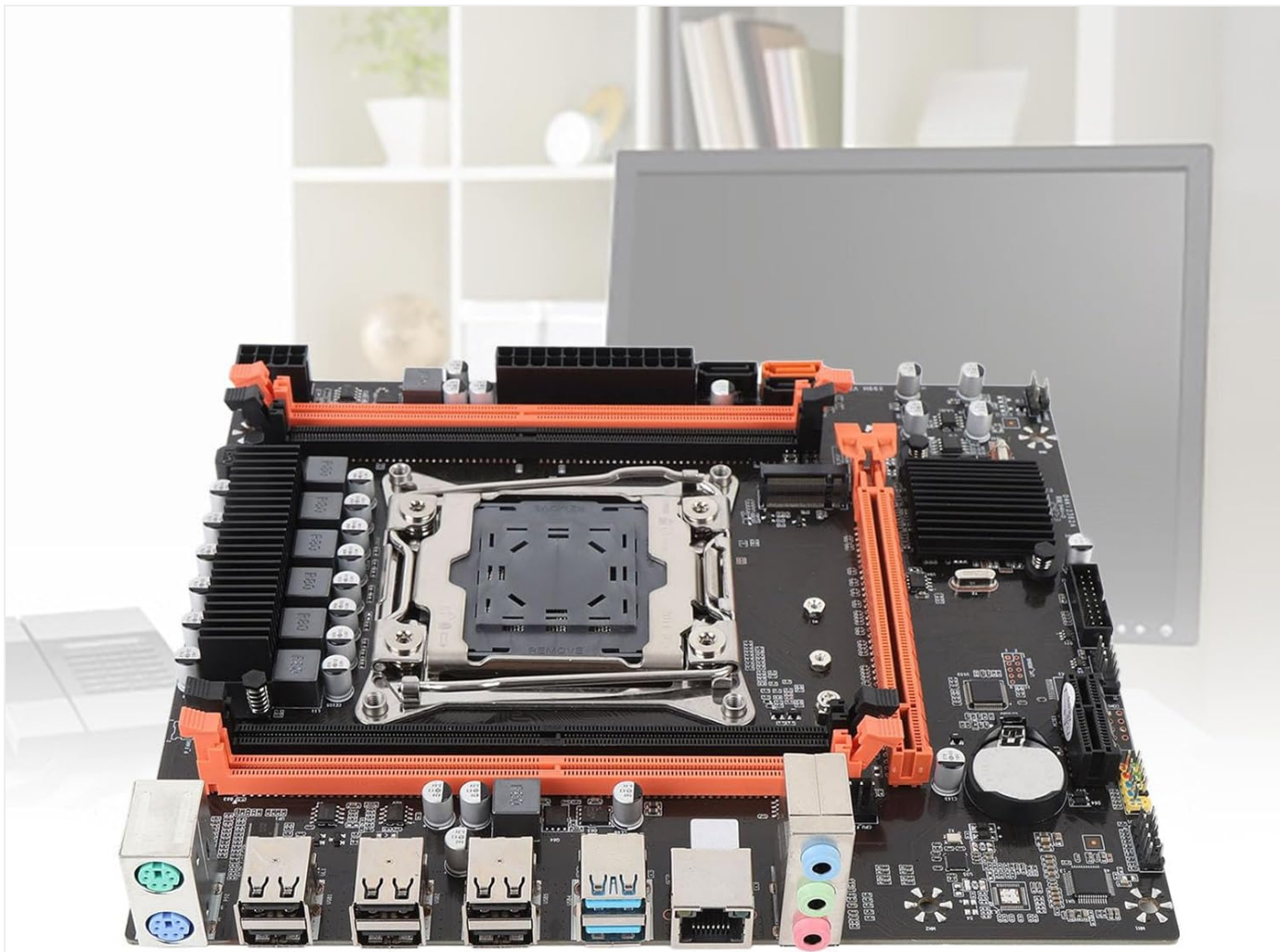


Figure 5: Rear I/O Panel. This image provides a clear view of the motherboard's rear input/output ports, including USB 2.0, USB 3.0, RJ45 network, and audio jacks.

3. OPERATING INSTRUCTIONS

Once all components are installed and connected, you can power on your system.

- **Initial Power On:** Ensure all power cables are securely connected. Press the power button on your PC case.
- **BIOS/UEFI Access:** During startup, repeatedly press the designated key (commonly DEL , F2 , or F10) to enter the BIOS/UEFI setup utility. Here you can configure boot order, system time, and other advanced settings.
- **Operating System Installation:** Insert your operating system installation media (USB drive or DVD) and follow the on-screen prompts to install your preferred OS.
- **Driver Installation:** After OS installation, install the necessary drivers for your motherboard (chipset, network, audio, USB, etc.) from the manufacturer's website or provided media.

4. MAINTENANCE

Regular maintenance helps ensure the longevity and stable performance of your motherboard and PC system.

- **Dust Removal:** Periodically clean dust from inside your PC case, especially from fans, heatsinks, and motherboard components, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Cable Management:** Ensure internal cables are neatly routed to improve airflow and prevent obstruction.

- **BIOS/UEFI Updates:** Check the manufacturer's website for BIOS/UEFI updates. Updates can improve compatibility, stability, and performance. Follow update instructions carefully.
- **Component Checks:** Occasionally check that all components (RAM, graphics card, storage drives) are securely seated in their slots.

STABLE PERFORMANCE

Equipped with all solid capacitors for stability and prolonged lifespan, ensuring dependable motherboard operations, bringing you convenient use.



Figure 6: Stable Performance Components. This image highlights the solid capacitors used on the motherboard, contributing to its stability and extended lifespan.

5. TROUBLESHOOTING

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

- **No Power:**
 - Ensure the PSU is switched on and connected to a working power outlet.
 - Verify that the 24-pin and 8-pin power cables are securely connected to the motherboard.
 - Check the front panel power switch connection to the motherboard.
- **No Display:**

- Confirm that your monitor is connected to the correct display output (graphics card or integrated graphics port).
- Reseat the graphics card and RAM modules.
- Test with a single RAM module in different slots.
- Ensure the CPU cooler is properly installed and connected.
- **System Instability/Crashes:**
 - Check for overheating. Ensure CPU cooler and case fans are functioning.
 - Verify RAM compatibility and stability (e.g., run memory diagnostic tools).
 - Ensure all drivers are up to date.
 - Check for loose power or data cables.
- **Storage Not Detected:**
 - For SATA drives, check data and power cable connections.
 - For M.2 drives, ensure it is fully seated and secured, and the M.2 jumper is set correctly for its protocol (NVMe or SATA).
 - Check BIOS/UEFI settings to ensure SATA ports are enabled and M.2 detection is configured.

EASY EXPANSION

This motherboard features HD multimedia and VGA interfaces, plus an M.2 slot supporting NGFF and NVME protocols for enhanced functionality.



Figure 7: Expansion Capabilities. This image highlights the M.2 slot, supporting NGFF and NVME protocols, and other expansion slots like PCIe x16 and PCIe x1, along with HD multimedia and VGA interfaces.

6. SPECIFICATIONS

Feature	Specification
Motherboard Structure	M-ATX
Chipset	X99H
CPU Socket	LGA 2011-3
Supported CPU Types	Intel E5 V3/V4 series, i7 58xx/68xx series
Memory Slots	4 x DDR4 DIMM
Maximum Memory Capacity	128GB

Feature	Specification
Memory Types	DDR4 2666MHz, 2400MHz, 2133MHz
Onboard Network Card	Yes (RJ45 interface)
Graphics Card Slot	1 x PCI Express 16X
Expansion Slots	1 x PCIE x1, 1 x NVME M.2 Interface (Serial ATA, PCIE with Jumper Switch)
USB Interfaces (Rear)	6 x USB 2.0, 2 x USB 3.0
USB Pins (Internal)	1 set USB3.0, 1 set USB2.0
Serial ATA Ports	2 x Serial ATA2.0, 1 x Serial ATA3.0
Power Sockets	1 x 8-pin, 1 x 24-pin
Built-in Battery	CR2032x1 240mah
I/O Interfaces	PS/2 Keyboard/Mouse Universal Interface, 1 x RJ45 Network Interface, HD multimedia, VGA

7. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the official Zunate website or contact your retailer.

- **Manufacturer:** Zunate
- **Model Number:** Zunatear2wnouip9
- **Online Support:** Visit the [Zunate Store on Amazon](#) for product information and potential support links. For direct manufacturer support, search for "Zunate official website" online.
- **Return Policy:** This product may be subject to a 30-day return/replacement policy. Please check with your retailer for specific details.

