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YHNNH X99-W

YHNNH ZSUS X99-W Motherboard Set Kit User Manual

Model: ZSUS X99-W

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your YHNNH ZSUS X99-W Motherboard Set Kit. This kit includes the ZSUS X99-W motherboard, an LGA2011-3 Xeon E5 2666 v3 CPU, and 16GB (1x16GB) of 2133MHz DDR4 memory. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.

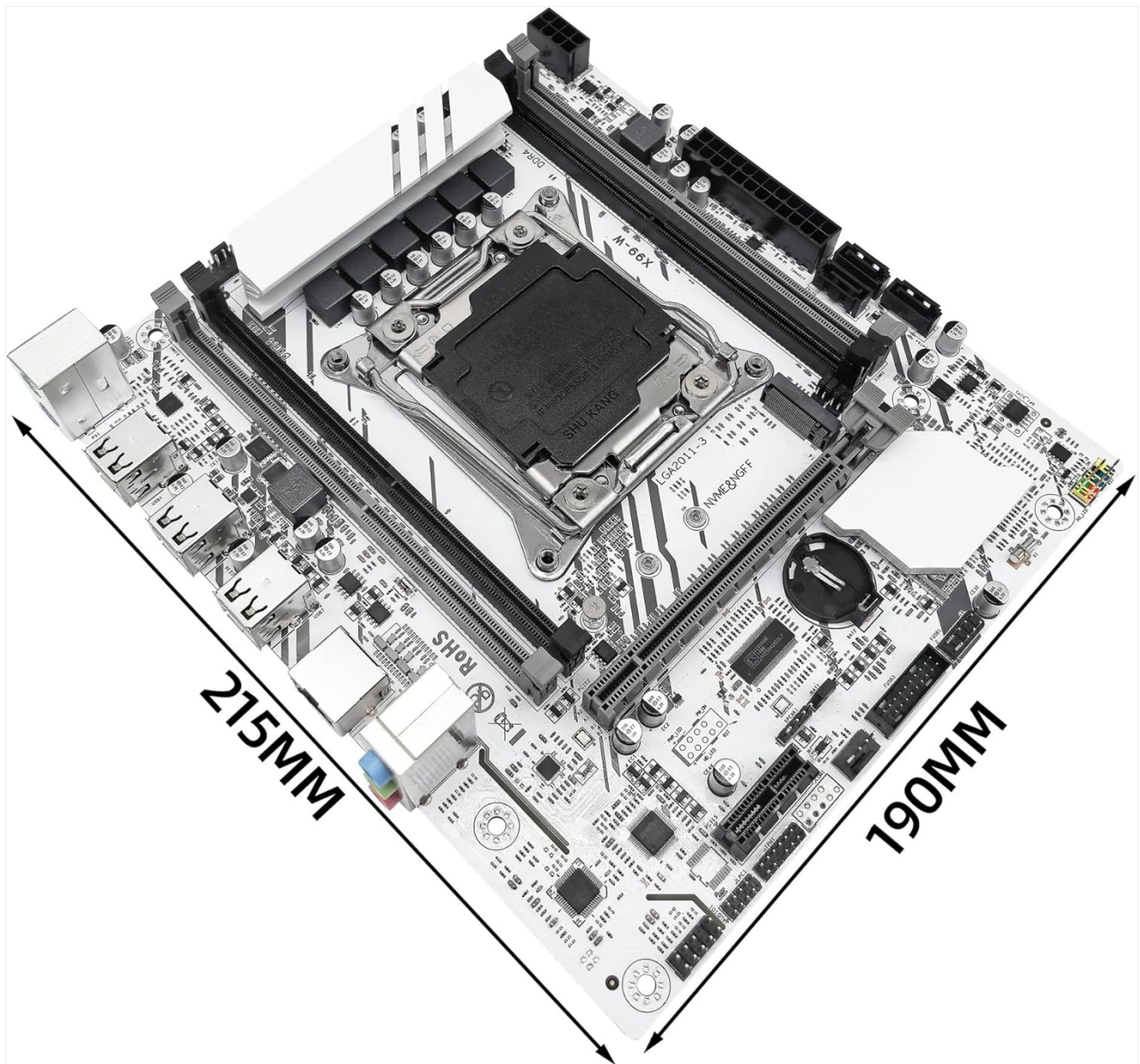


Image: The ZSUS X99-W motherboard shown with the included Xeon E5 2666 v3 CPU and DDR4 memory module, along with its retail packaging.

SETUP

1. Unpacking and Inspection

- Carefully remove all components from the packaging.
- Inspect the motherboard and other components for any signs of physical damage. If any damage is found, contact your vendor immediately.
- Ensure all listed accessories are present: I/O shield, SATA cable.

2. Component Installation

Before installing any components, ensure your system is powered off and unplugged from the wall outlet. Wear an anti-static wrist strap to prevent electrostatic discharge (ESD) damage.

CPU Installation (LGA2011-3)

1. Locate the LGA2011-3 CPU socket on the motherboard.
2. Open the CPU socket retention levers.
3. Carefully align the Xeon E5 2666 v3 CPU with the socket, ensuring the gold triangle on the CPU matches the triangle

on the socket. Do not force the CPU into the socket.

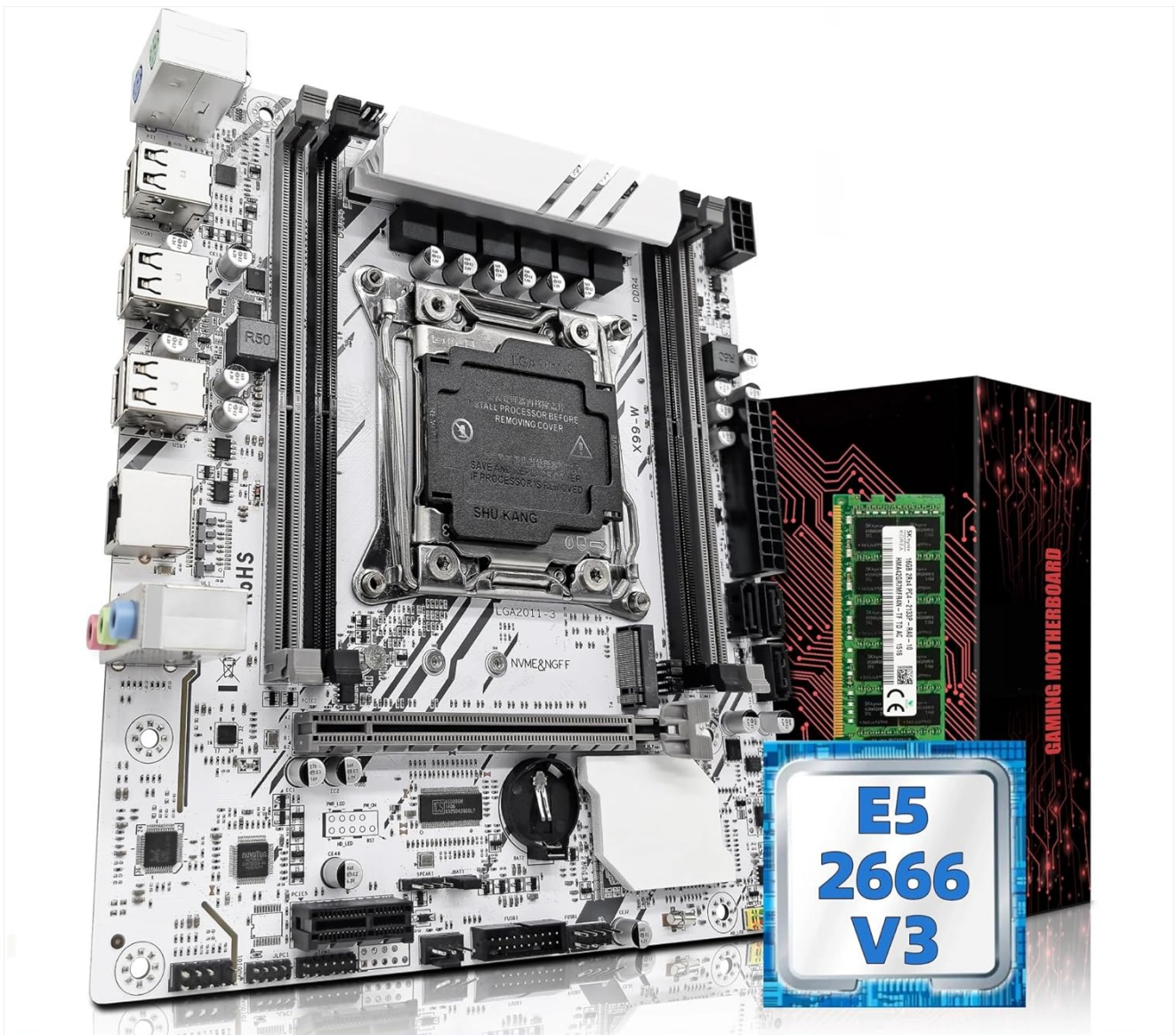
4. Close the retention levers to secure the CPU.
5. Apply a thin, even layer of thermal paste to the CPU's integrated heat spreader (IHS).
6. Install the CPU cooler according to its manufacturer's instructions.

Memory (RAM) Installation (DDR4)

1. Locate the four DDR4 DIMM slots on the motherboard.
2. Open the retention clips at both ends of the DIMM slot.
3. Align the 16GB DDR4 memory module with the slot, ensuring the notch on the module matches the key in the slot.
4. Press down firmly on both ends of the memory module until the retention clips snap into place.

NVMe M.2 SSD Installation

1. Locate the NVMe M.2 slot on the motherboard.
2. Remove the M.2 screw and standoff from the slot.
3. Insert the M.2 SSD into the slot at a 30-degree angle.
4. Gently push the SSD down and secure it with the M.2 screw.



**SKU: 1.Motherboard 2.Motherboard+E5 2666 V3
3.Motherboard+E5 2666 V3+1*16G DDR4**

Please choose the product carefully. If you only buy a Motherboard, we will not provide a matching CPU and memory module.

Image: The ZSUS X99-W motherboard with the NVMe M.2 slot clearly highlighted, indicating its location for storage expansion.

PCIe Device Installation

1. Locate the PCIe x16 slot for your graphics card and any PCIe x1 slots for other expansion cards.
2. Remove the corresponding expansion slot cover from your PC case.
3. Align the card with the slot and press down firmly until it is fully seated.
4. Secure the card with a screw to the PC case.

3. Power Connections

- Connect the 24-pin ATX power connector from your power supply to the motherboard's 24-pin power socket.
- Connect the 8-pin ATX 12V power connector from your power supply to the motherboard's 8-pin CPU power socket.
- Connect SATA power cables to your SATA storage devices (if any).

4. Internal and External Connections

Refer to the diagram below for the location of various connectors.

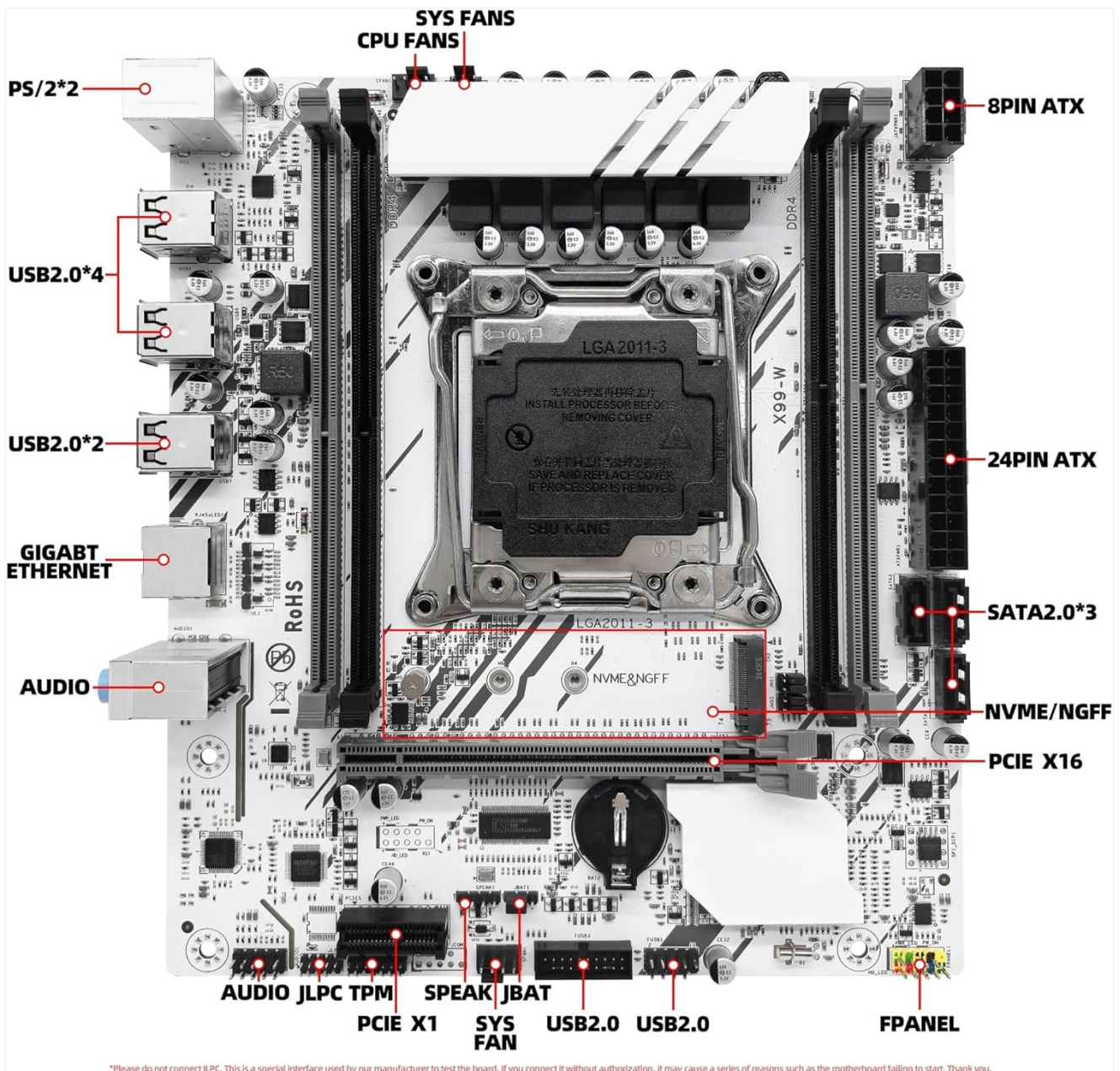


Image: An overhead view of the ZSUS X99-W motherboard with all major ports and connectors, including CPU FAN, SYS FAN, USB, SATA, NVME/NGFF, PCIe slots, and front panel headers, clearly labeled.

Front Panel Connectors

- **F_PANEL:** Connect your PC case's power switch, reset switch, power LED, and HDD LED cables here. Ensure correct polarity for LEDs.
- **USB 2.0 Headers:** Connect front panel USB 2.0 ports.
- **AUDIO:** Connect front panel audio (HD Audio or AC'97).
- **SPEAKER:** Connect the system speaker.
- **JBAT:** CMOS clear jumper.
- **TPM:** Trusted Platform Module header.

Rear I/O Panel Connectors

- **PS/2 Ports:** For legacy keyboard and mouse.
- **USB 2.0 Ports:** Connect USB peripherals.
- **RJ45 (Gigabit Ethernet):** Connect to your network.
- **Audio Jacks:** For speakers, headphones, and microphones.

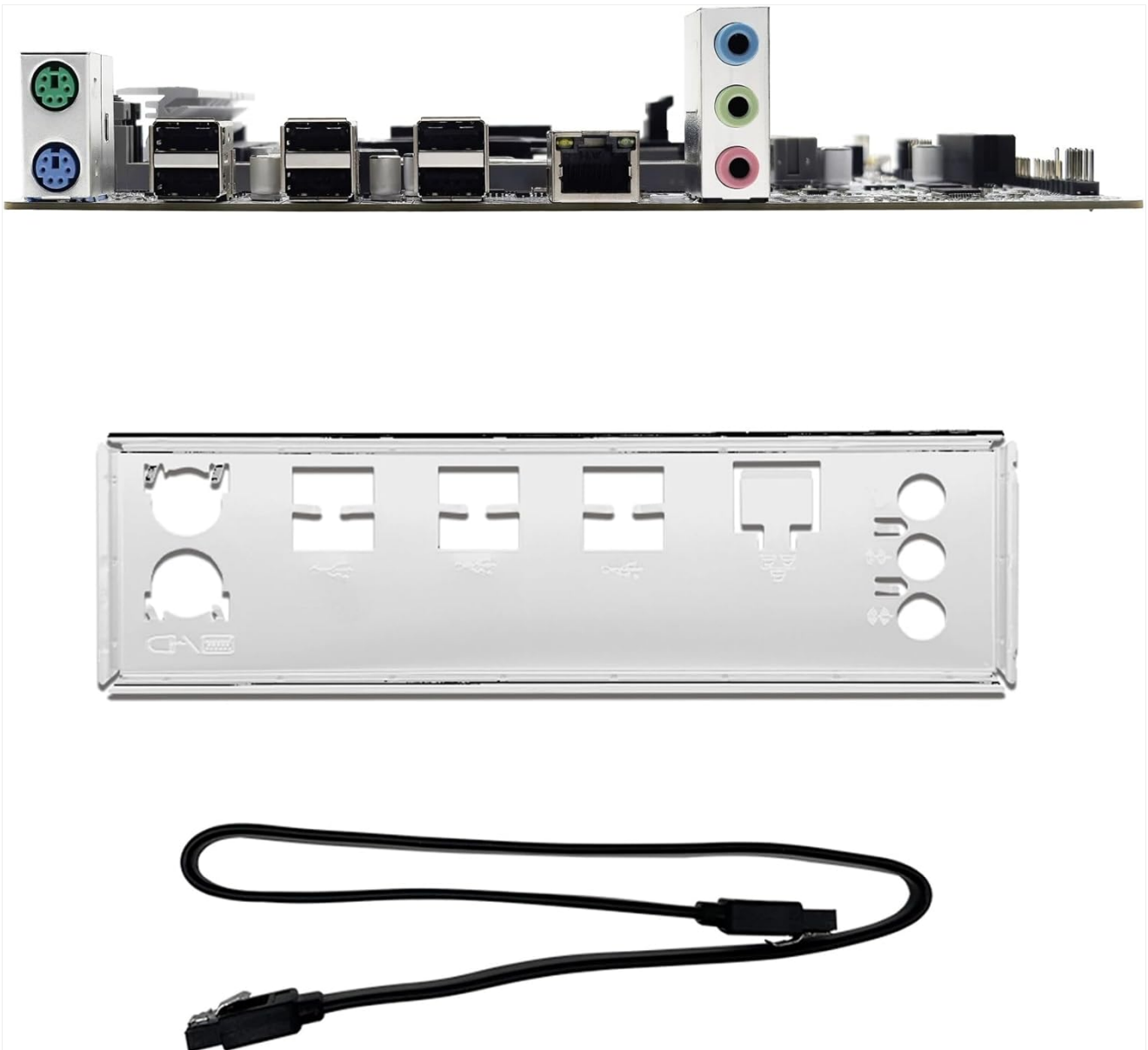


Image: A close-up view of the rear I/O panel of the ZSUS X99-W motherboard, showing PS/2, USB 2.0, Ethernet, and audio ports. Also pictured are the I/O shield and a SATA data cable, which are included accessories.

OPERATING

1. First Boot and BIOS/UEFI Setup

- After all components are installed and connected, power on your system.
- Press the designated key (usually **DEL** or **F2**) during startup to enter the BIOS/UEFI setup utility.
- Verify that all installed components (CPU, RAM, storage devices) are detected correctly.
- Set the boot order to prioritize your operating system installation media (USB drive or DVD).
- Save changes and exit the BIOS/UEFI.

2. Operating System Installation

Follow the instructions provided with your operating system (e.g., Windows, Linux) to complete the installation process.

3. Driver Installation

After installing the operating system, install the necessary drivers for optimal performance. These typically include:

- Chipset drivers
- LAN (Ethernet) drivers
- Audio drivers
- Graphics card drivers (if a dedicated GPU is installed)

Drivers can usually be found on the manufacturer's website for the motherboard chipset and specific components.

MAINTENANCE

1. System Cleaning

- Regularly clean dust from inside your PC case, especially from CPU coolers, GPU fans, and case fans. Dust buildup can lead to overheating.
- Use compressed air to gently blow away dust. Avoid using a vacuum cleaner inside the PC as it can generate static electricity.

2. BIOS/UEFI Updates

- Periodically check the manufacturer's website for BIOS/UEFI updates. Updates can improve stability, compatibility, and performance.
- Follow the manufacturer's instructions carefully when updating the BIOS/UEFI to avoid system damage.

3. Component Checks

- Ensure all cables (power, data) are securely connected.
- Monitor CPU and GPU temperatures using software utilities to ensure they are within safe operating limits.

TROUBLESHOOTING

If you encounter issues with your system, consider the following troubleshooting steps:

- **No Power:** Ensure all power cables (24-pin ATX, 8-pin ATX 12V) are firmly connected to the motherboard and power supply. Check the power supply switch and wall outlet.
- **No Display/No POST:**
 - Verify that the monitor is connected to the graphics card (or integrated graphics, if applicable) and powered on.
 - Reseat the RAM modules. Try booting with only one RAM module installed.
 - Reseat the graphics card.
 - Clear the CMOS by removing the CMOS battery for 5-10 minutes or using the JBAT jumper (refer to the Setup section).

- **Operating System Not Booting:**

- Check the boot order in BIOS/UEFI.
- Ensure your storage drive is properly connected and detected in BIOS/UEFI.
- Run a diagnostic check on your storage drive if possible.

- **System Instability/Crashes:**

- Check CPU and GPU temperatures.
- Ensure all drivers are up to date.
- Test memory stability using diagnostic tools.

SPECIFICATIONS

The following are the key specifications for the YHNNH ZSUS X99-W Motherboard Set Kit:

Feature	Specification
Brand	YHNNH
Model	ZSUS X99-W
CPU Socket	LGA 2011-3
Compatible CPU	Intel Xeon E5-2600 v3/v4 series (e.g., E5 2666 v3)
Chipset	X99 Series (Note: Some documentation may incorrectly list H55)
Memory Type	DDR4
Memory Slots	4 x DDR4 DIMM slots
Max Memory Capacity	Up to 128GB (32GB per slot)
Storage Interface	1 x NVMe M.2 (2280), 3 x SATA 2.0
PCIe Slots	1 x PCIe 3.0 x16, 1 x PCIe x1
LAN	1 x Gigabit Ethernet (1000Mbps)
USB Ports (Rear I/O)	6 x USB 2.0
Audio	3 x Audio Jacks
Form Factor	CeB (approx. 215mm x 190mm)

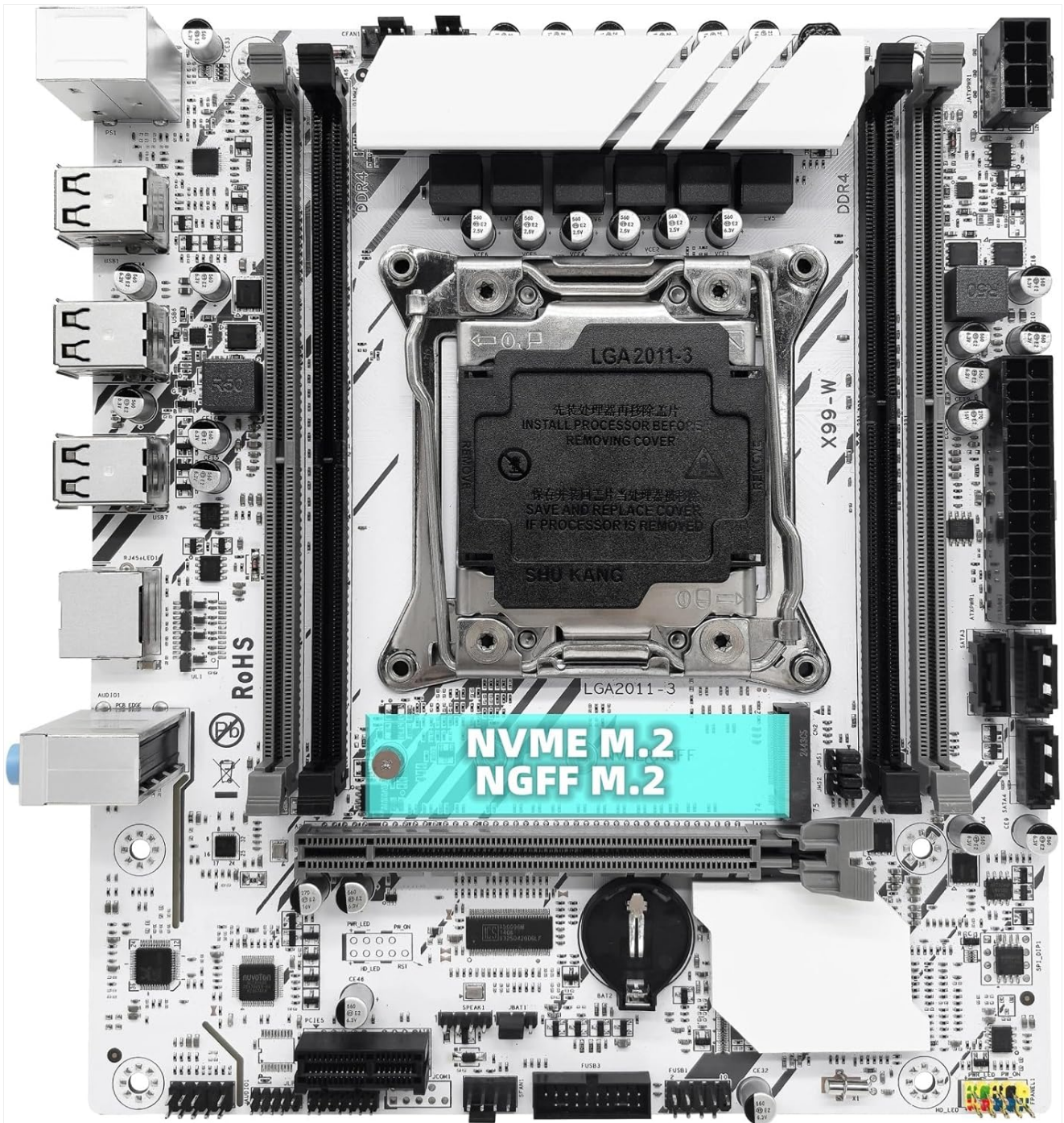


Image: The ZSUS X99-W motherboard displaying its physical dimensions, approximately 215mm in length and 190mm in width.

WARRANTY AND SUPPORT

Warranty Information

For warranty details, please refer to the specific terms and conditions provided by your retailer or the manufacturer at the time of purchase. Typically, motherboards come with a limited manufacturer's warranty covering defects in materials and workmanship.

Technical Support

If you encounter issues that cannot be resolved using the troubleshooting steps in this manual, please contact your vendor or the manufacturer's support channels for assistance. Have your product model and purchase information ready when contacting support.

- **Online Resources:** Check the YHNNH brand store on Amazon for additional information or FAQs:YHNNH Store

