X99 Motherboard Set

Generic SOYO X99 Motherboard Set User Manual

Model: X99 Motherboard Set (SVCBYUYUH)

LGA2011-3 Xeon E5 2630 V4 CPU and 16GB DDR4 2133MHz RAM

1. Introduction

This manual provides essential instructions for the installation, operation, and maintenance of your Generic SOYO X99 Motherboard Set. This high-performance set includes an X99 motherboard designed for LGA2011-3 Xeon E5 2630 V4 CPUs and 16GB DDR4 2133MHz RAM, suitable for demanding computing tasks such as gaming and workstation applications.
The motherboard supports NVMe M.2 for high-speed storage and features advanced thermal management to ensure stable operation under heavy loads. Please read this manual thoroughly before proceeding with installation.

2. Package Contents

Verify that all items listed below are present and in good condition upon unpacking:

- SOYO X99 Motherboard
- Intel Xeon E5 2630 V4 CPU (LGA2011-3)
- 16GB DDR4 2133MHz RAM Module(s)
- SATA Data Cables (quantity may vary)
- I/O Shield
- User Manual (this document)

If any items are missing or damaged, please contact your retailer or the manufacturer's support.

3. Setup and Installation

Before beginning installation, ensure your workspace is clean, well-lit, and static-free. It is recommended to wear an anti-static wrist strap.

3.1 Motherboard Overview

Figure 1: Top-down view of the SOYO X99 Motherboard, highlighting the LGA2011-3 CPU socket, DDR4 RAM slots, and various connectors.

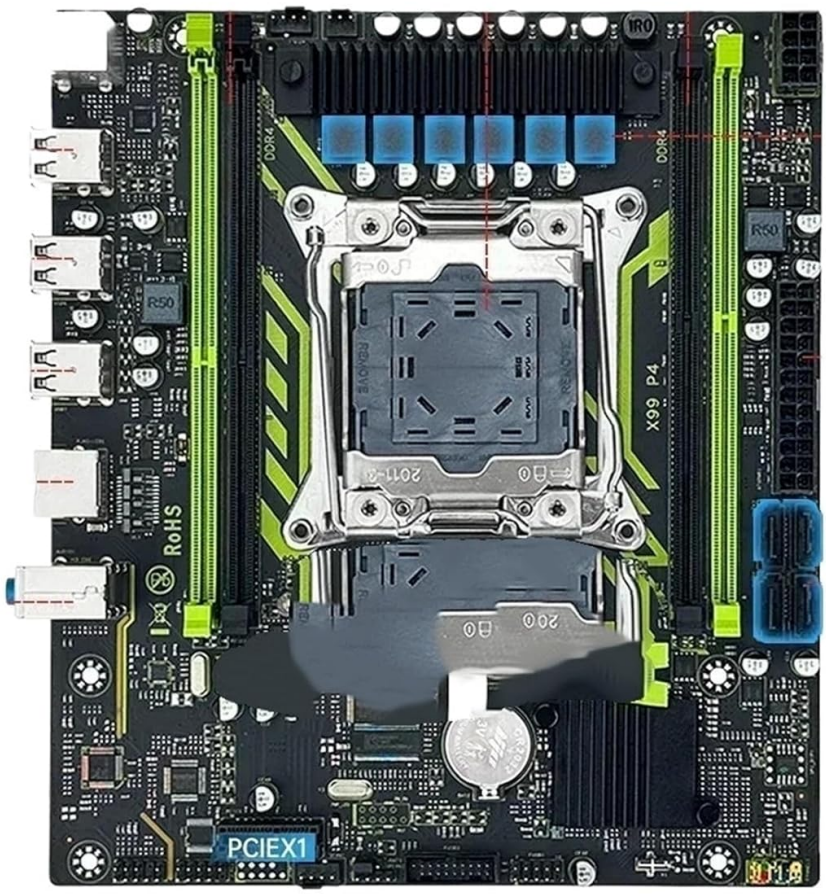

Figure 2: Another view of the SOYO X99 Motherboard, showing the PCIe x16 slots, PCIe x1 slot, and the NVMe M.2 slot.

3.2 CPU Installation

1. **Prepare the Socket:** Gently open the LGA2011-3 CPU socket retention mechanism on the motherboard.
2. **Align the CPU:** Carefully align the Intel Xeon E5 2630 V4 CPU with the socket. Ensure the triangular mark on the CPU matches the mark on the socket. Do not force the CPU into place.
3. **Secure the CPU:** Once properly seated, close the socket retention mechanism to secure the CPU.
4. **Apply Thermal Paste:** Apply a small amount of high-quality thermal paste to the center of the CPU's integrated heat spreader (IHS).
5. **Install CPU Cooler:** Mount your compatible CPU cooler according to its manufacturer's instructions. Ensure proper contact and secure fastening.

3.3 RAM Installation

1. **Open RAM Slot Clips:** Open the retention clips on both ends of the DDR4 RAM slots.
2. **Align RAM Module:** Align the 16GB DDR4 2133MHz RAM module with the slot, ensuring the notch on the module matches the key in the slot.
3. **Insert RAM:** Press down firmly and evenly on both ends of the RAM module until the clips snap into

place, securing the module.

4. **Populate Slots:** Refer to your motherboard's specific manual for optimal RAM slot population order for multi-channel configurations.

3.4 NVMe M.2 SSD Installation (Optional)

1. **Locate M.2 Slot:** Identify the NVMe M.2 slot on the motherboard (refer to Figure 2).
2. **Insert SSD:** Gently insert the NVMe M.2 SSD into the slot at an angle.
3. **Secure SSD:** Push the SSD down and secure it with the provided screw or retention mechanism.

3.5 Connecting Peripherals and Power

- Connect the 24-pin ATX power connector and the 8-pin CPU power connector from your power supply to the motherboard.
- Connect SATA drives (HDDs/SSDs) to the SATA ports using SATA data and power cables.
- Install your graphics card into the primary PCIe x16 slot.
- Connect front panel headers (power button, reset button, USB ports, audio jacks) according to the motherboard's pinout diagram.
- Connect USB devices, monitor, keyboard, and mouse to the appropriate ports.

4. Operating Instructions

4.1 First Boot

After completing all hardware connections, power on your system. The system should initiate the Power-On Self-Test (POST). If successful, you will see the BIOS/UEFI splash screen.

4.2 BIOS/UEFI Configuration

Press the designated key (usually DEL or F2) during POST to enter the BIOS/UEFI setup utility. Here you can:

- Set the system date and time.
- Configure boot order for your operating system installation media.
- Monitor system temperatures and fan speeds.
- Adjust CPU and RAM settings (advanced users only).

4.3 Operating System Installation

Insert your operating system installation media (USB drive or DVD) and boot from it. Follow the on-screen instructions to install your preferred operating system. Ensure all necessary drivers (chipset, network, audio, graphics) are installed after the OS installation for optimal performance.

5. Maintenance

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

- **Dust Removal:** Periodically clean dust from inside your PC case, especially from CPU cooler fins, GPU fans, and case fans, using compressed air. Ensure the system is powered off and unplugged before cleaning.
- **Thermal Paste:** Consider reapplying thermal paste to the CPU every few years to maintain optimal

thermal transfer.

- **BIOS/UEFI Updates:** Check the manufacturer's website for BIOS/UEFI updates. Only update if necessary and follow the instructions carefully.
- **Driver Updates:** Keep your system drivers updated for stability and performance.

6. Troubleshooting

This section addresses common issues you might encounter.

- **No Power/No Boot:**
  - Check all power connections (24-pin ATX, 8-pin CPU, GPU).
  - Ensure the power supply switch is on.
  - Verify front panel power button connection.
  - Test with a different power supply if possible.
- **No Display:**
  - Ensure monitor is connected to the graphics card (not motherboard I/O, as Xeon E5 CPUs typically lack integrated graphics).
  - Reseat the graphics card and RAM modules.
  - Try booting with only one RAM stick.
- **System Instability/Crashes:**
  - Check CPU and GPU temperatures. Overheating can cause instability.
  - Ensure RAM is properly seated and compatible.
  - Update drivers and BIOS/UEFI.
  - Run memory diagnostic tools.
- **NVMe M.2 Not Detected:**
  - Ensure the M.2 SSD is properly seated and secured.
  - Check BIOS/UEFI settings to ensure M.2 slot is enabled and configured correctly (e.g., PCIe mode).
  - Verify the M.2 SSD is compatible with the motherboard's M.2 slot (NVMe vs. SATA M.2).

For further assistance, consult the manufacturer's website or contact technical support.

7. Specifications

Feature	Detail
Model Name	SOYO X99 Motherboard Set
Item Model Number	SVCBYUYUH-MOTHERBOARD+CPU+RAM
CPU Socket	LGA2011-3
Included CPU	Intel Xeon E5 2630 V4
RAM Type	DDR4
Included RAM Capacity	16GB

Included RAM Speed	2133MHz
Storage Support	NVMe M.2, SATA
Manufacturer	Generic
Package Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	13.79 ounces

8. Warranty and Support

For warranty information, please refer to the documentation provided with your purchase or contact the retailer. For technical support, driver downloads, and further assistance, please visit the manufacturer's official website or contact their customer service department.
Keep your proof of purchase for warranty claims.