

SOYO X99 Motherboard Set

SOYO X99 Motherboard Set User Manual

Model: X99 Motherboard Set

1. PRODUCT OVERVIEW

The SOYO X99 Motherboard Set provides a high-performance foundation for gaming and workstation builds. This comprehensive package includes an X99 motherboard, an LGA2011-3 Xeon E5 2630 V4 CPU, and 16GB of DDR4 2133MHz RAM, designed for seamless multitasking and demanding applications.

- **Exceptional Performance:** Designed for LGA2011-3 Xeon E5 2630 V4 CPUs, ideal for demanding gaming and workstation environments.
- **Efficient Multitasking:** Includes 16GB DDR4 2133MHz RAM for smooth operation under heavy workloads.
- **Rapid Data Transfer:** Supports NVMe M.2 for lightning-fast storage solutions and quick system boot times.
- **Robust Design:** Features advanced thermal management to maintain system stability during intensive use.
- **Versatile Compatibility:** Supports a wide range of components for custom PC builds, upgrades, and professional applications.

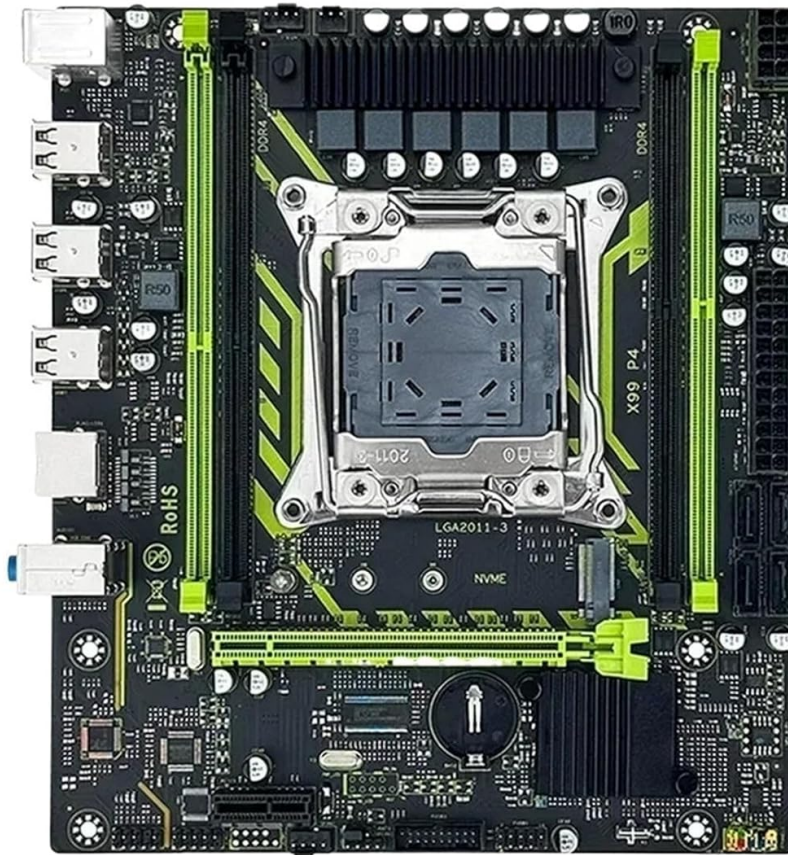


Figure 1.1: Top-down view of the SOYO X99 Motherboard, showcasing the LGA2011-3 CPU socket, DDR4 RAM slots, and various expansion ports.

2. SAFETY INFORMATION

Please read and follow these safety guidelines to prevent damage to the product and ensure personal safety during installation and operation.

- 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 metal object to discharge static electricity, which can damage sensitive electronic components.
- Handle components by their edges to avoid touching sensitive pins or circuits.
- Ensure proper ventilation within your PC case to prevent overheating.
- Keep the product away from moisture, extreme temperatures, and direct sunlight.
- If you encounter any issues, refer to the troubleshooting section or seek professional assistance.

3. PACKAGE CONTENTS

Verify that all items are present and in good condition upon opening the package. If any items are missing or damaged, contact your retailer.

- SOYO X99 Motherboard
 - Intel Xeon E5 2630 V4 CPU (pre-installed or separate)
 - 16GB DDR4 2133MHz RAM Module(s)
 - SATA Data Cables (quantity may vary)
 - I/O Shield
 - User Manual (this document)
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4. SETUP AND INSTALLATION

This section provides general instructions for installing the SOYO X99 Motherboard Set. For detailed steps, consult your PC case manual and component-specific guides.

4.1. Preparing for Installation

- Gather necessary tools: Phillips head screwdriver, anti-static wrist strap, thermal paste (if CPU not pre-installed with cooler).
- Ensure a clean, well-lit, and static-free workspace.
- Unpack all components carefully.

4.2. CPU Installation (if not pre-installed)

1. Locate the LGA2011-3 CPU socket on the motherboard.
2. Open the CPU socket retention mechanism by pushing down and out on the lever(s).
3. Carefully align the Intel Xeon E5 2630 V4 CPU with the socket, matching the gold triangle on the CPU to the indicator on the socket. Do not force the CPU into place.
4. Gently lower the CPU into the socket.
5. Close the socket retention mechanism until it clicks securely.
6. Apply a small amount of thermal paste to the center of the CPU (if not pre-applied to the cooler) and install the CPU cooler according to its instructions.

4.3. RAM Installation

1. Locate the DDR4 RAM slots on the motherboard.
2. Open the retention clips at both ends of the RAM slot.
3. Align the 16GB DDR4 2133MHz RAM module with the slot, ensuring the notch on the module matches the key in the slot.
4. Press down firmly and evenly on both ends of the RAM module until the retention clips snap into place.
5. Repeat for additional RAM modules if applicable, following the motherboard's manual for optimal slot population (e.g., dual-channel configuration).

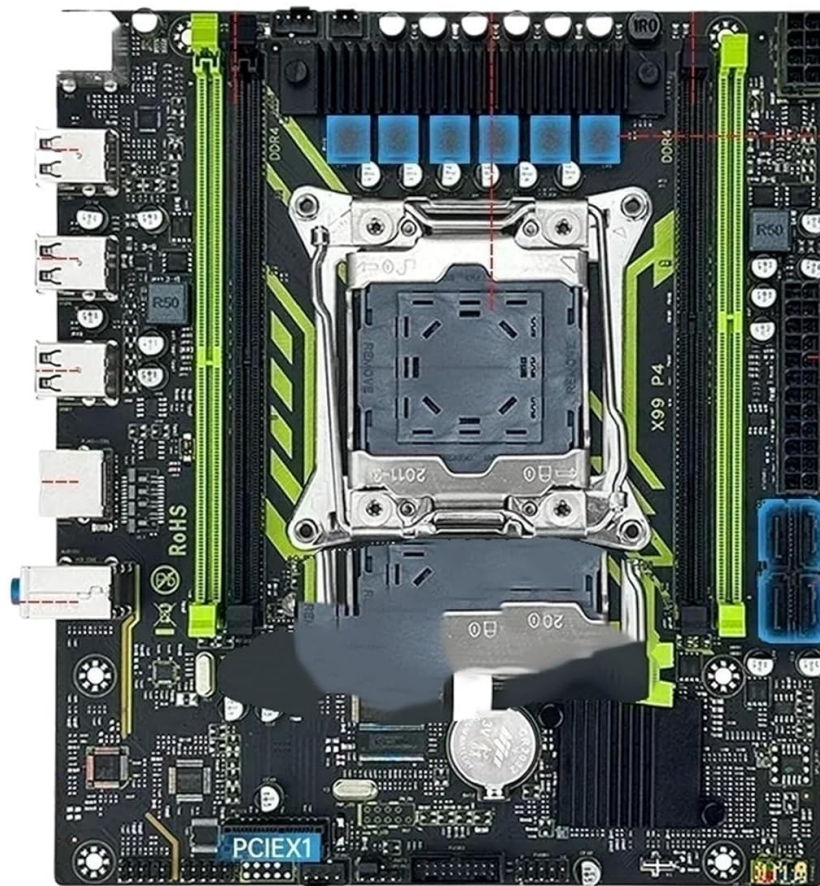


Figure 1.2: Close-up view of the SOYO X99 Motherboard, highlighting the DDR4 RAM slots and PCIe expansion slots.

4.4. Motherboard Installation

1. Install the I/O shield into the rear opening of your PC case.
2. Carefully place the motherboard into the PC case, aligning the screw holes on the motherboard with the standoffs in the case.
3. Secure the motherboard with screws, ensuring not to overtighten.

4.5. Storage and Power Connections

- **NVMe M.2 SSD:** If using an NVMe M.2 SSD, install it into the designated M.2 slot and secure it with the provided screw.
- **SATA Devices:** Connect SATA data cables from your storage drives (HDDs/SSDs) to the SATA ports on the motherboard. Connect SATA power cables from your power supply to the drives.
- **Power Supply:** Connect the 24-pin ATX power connector and the 8-pin (or 4+4-pin) CPU power connector from your power supply to the corresponding ports on the motherboard.
- **Case Cables:** Connect front panel headers (power button, reset button, USB ports, audio jacks, LED indicators) to the motherboard according to the motherboard manual.

5. OPERATING INSTRUCTIONS

5.1. First Boot and BIOS/UEFI Setup

1. After all components are installed and connected, connect your monitor, keyboard, and mouse.
2. Connect the power cable to the power supply and turn on the power supply switch.
3. Press the power button on your PC case.
4. During startup, repeatedly press the **DEL** or **F2** key (common keys, consult motherboard manual for exact key) to enter the BIOS/UEFI setup utility.
5. In the BIOS/UEFI, configure boot order, enable XMP for RAM (if applicable), and set other system preferences. Save changes and exit.

5.2. Operating System and Driver Installation

- Install your preferred operating system (e.g., Windows, Linux) from a bootable USB drive or DVD.
- After OS installation, install all necessary drivers for the motherboard chipset, network, audio, and any other integrated components. Drivers can typically be found on the manufacturer's website.

6. MAINTENANCE

- **Dust Removal:** Regularly clean the interior of your PC case using compressed air to prevent dust buildup, which can hinder cooling performance. Ensure the system is powered off and unplugged before cleaning.
- **Driver Updates:** Keep your motherboard chipset drivers, graphics drivers, and other component drivers updated to ensure optimal performance and stability.
- **BIOS/UEFI Updates:** Periodically check the manufacturer's website for BIOS/UEFI updates. Updates can improve compatibility, stability, and add new features. Follow the update instructions carefully to avoid system damage.

7. TROUBLESHOOTING

If you encounter issues, refer to the following common troubleshooting steps. For more complex problems, consult the manufacturer's support resources.

- **No Power:**
 - Ensure the power supply is switched on and connected to a working outlet.
 - Verify all power cables (24-pin ATX, 8-pin CPU) are securely connected to the motherboard.
 - Check front panel power button connection to the motherboard.
- **No Display:**
 - Confirm the monitor is powered on and connected to the graphics card (or integrated graphics port if applicable).
 - Reseat the graphics card and RAM modules.
 - Try booting with only one RAM stick.

- **System Instability/Crashes:**
 - Check CPU and GPU temperatures. Ensure coolers are properly installed.
 - Verify RAM is correctly seated and functioning. Run a memory diagnostic tool.
 - Ensure all drivers are up to date.
- **POST Code Errors:**
 - If your motherboard has a POST code display, refer to the motherboard manual for the meaning of specific codes.

8. SPECIFICATIONS

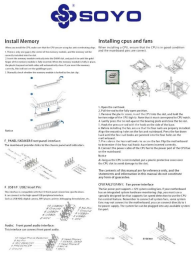

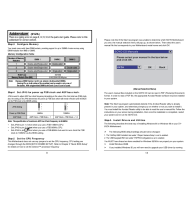

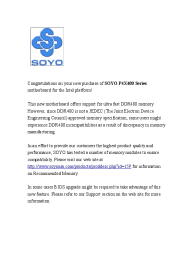

Component	Detail
Motherboard Model	SOYO X99
CPU Socket	LGA2011-3
Included CPU	Intel Xeon E5 2630 V4
Included RAM	16GB DDR4 2133MHz
Storage Support	NVMe M.2, SATA
Item Model Number	SVCBYUYUH-MOTHERBOARD+CPU+RAM
Manufacturer	Generic
Package Dimensions	0.39 x 0.39 x 0.39 inches
Item Weight	13.79 ounces

9. WARRANTY AND SUPPORT

This product is covered by a manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation provided with your purchase or contact the retailer. For technical support, driver downloads, and further assistance, please visit the official SOYO website or contact their customer service.

Keep your proof of purchase for warranty claims.

Related Documents - X99 Motherboard Set

 <p>SOYO Motherboard Manual: Installation and BIOS Settings</p>	<p>SOYO Motherboard Manual: Installation and BIOS Settings</p> <p>Comprehensive guide for installing memory, CPUs, and fans, along with configuring BIOS settings for SOYO motherboards. Includes details on front panel, USB, and audio interfaces.</p>
 <p>SY-D6IGA Motherboard</p> <p>Single or Dual Xeon™ Processor supported (Pentium® II Xeon™ & Pentium® III Xeon™) 8MB/16GB AGP/PCI Motherboard 100MHz Front Side Bus supported Custom ATX Form Factor LAN Chip onboard (10/100 Mbps) Ultra2 SCSI onboard</p> <p>User's Guide & Technical Reference</p>	<p>SOYO SY-D6IGA Motherboard User's Guide and Technical Reference</p> <p>Comprehensive user guide and technical reference for the SOYO SY-D6IGA Motherboard. Details hardware setup, BIOS configuration, driver installation, and features for Pentium II/III Xeon processors, Ultra2 SCSI, and 10/100 Mbps LAN.</p>
 <p>SOYO SY-6VZA Motherboard Addendum: Memory Configuration and Driver Installation</p>	<p>SOYO SY-6VZA Motherboard Addendum: Memory Configuration and Driver Installation</p> <p>This addendum provides corrections and additional details for the SOYO SY-6VZA Motherboard Quick Start Guide, covering memory configuration, JP45 jumper settings for FSB and AGP clocks, CPU frequency setup via BIOS, and a comprehensive guide to installing Windows 95/98 drivers from the SOYO CD.</p>
 <p>SY-6ZB Motherboard</p> <p>Quick Start Guide</p>	<p>SOYO SY-6ZB Motherboard Quick Start Guide: Installation, Setup, and BIOS Configuration</p> <p>Get started with your SOYO SY-6ZB Motherboard. This Quick Start Guide provides essential information on hardware installation, CPU mounting, component connections, BIOS setup, and driver installation for the SY-6ZB model.</p>
 <p>SOYO SY-P4X400 DRAGON Ultra Motherboard User Manual and Installation Guide</p>	<p>SOYO SY-P4X400 DRAGON Ultra Motherboard User Manual and Installation Guide</p> <p>This user manual provides comprehensive instructions for installing, configuring, and troubleshooting the SOYO SY-P4X400 DRAGON Ultra motherboard. It covers hardware installation, BIOS setup, driver installation, and key features.</p>
 <p>SY-7IWM/L V1.0 Motherboard</p> <p>Socket 770 Celeron™ Processor supported PNB3000 AGP/PCI/AMR 66/100 MHz Front Side Bus supported Micro ATX Form Factor</p> <p>User's Manual</p>	<p>SOYO SY-7IWM/L V1.0 Motherboard User's Manual</p> <p>User's manual for the SOYO SY-7IWM/L V1.0 Motherboard, detailing hardware installation, BIOS setup, driver installation, and technical specifications.</p>