GOWENIC X99 M ATX

GOWENIC X99 M ATX Motherboard User Manual

Model: X99 M ATX

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your GOWENIC X99 M ATX Motherboard. Please read this manual thoroughly before proceeding with installation to ensure proper setup and optimal performance.

Figure 1: GOWENIC X99 M ATX Motherboard overview.

2. Specifications

The GOWENIC X99 M ATX Motherboard is designed for high-performance computing, supporting a range of CPUs and memory configurations.

- **Item Type:** Gaming Motherboard
- **Material:** PCB
- **CPU Socket:** LGA 2011-3, supports Intel E5 V3 & V4 2011 CPUs, and Intel i7 processors (e.g., 6950x, 6900k, 6850k, 6800k, 5960x, 5930k, 5820k).
- **Memory:** 4 x DDR4 DIMM slots, supports 3200MHz, 2666MHz, 2400MHz, 2133MHz. Maximum memory support up to 128GB in 4-channel architecture.
- **Storage:** 1 x Serial ATA 3.0 (6Gb/s), 2 x Serial ATA 2.0 (3Gb/s), 1 x NVMe M.2 interface, 1 x NGFF M.2 interface.
- **Integrated LAN:** Onboard 10/100/1000Mbps Gigabit LAN.
- **Expansion Slots:** 1 x PCI Express x16 slot, 1 x PCI Express x1 slot.
- **Power Ports:** 1 x 24-Pin ATX Power Connector, 1 x 8-Pin ATX Power Connector.
- **I/O Ports:** 2 x PS/2 Ports, 4 x USB 2.0 Ports, 2 x USB 3.0 Ports, 1 x RJ45 Port, 1 x 3-in-1 Sound Jack (Sound Input, Sound Output, Mic Input).
- **Integrated Sound Card:** Onboard 6-channel HD Sound Codec, Front Sound Interface, Front Stereo Mic Interface.
- **Battery:** CR2032 240mAh (Built-in).
- **Dimensions:** Approximately 10.24 x 7.87 x 1.97 inches (Package Dimensions).
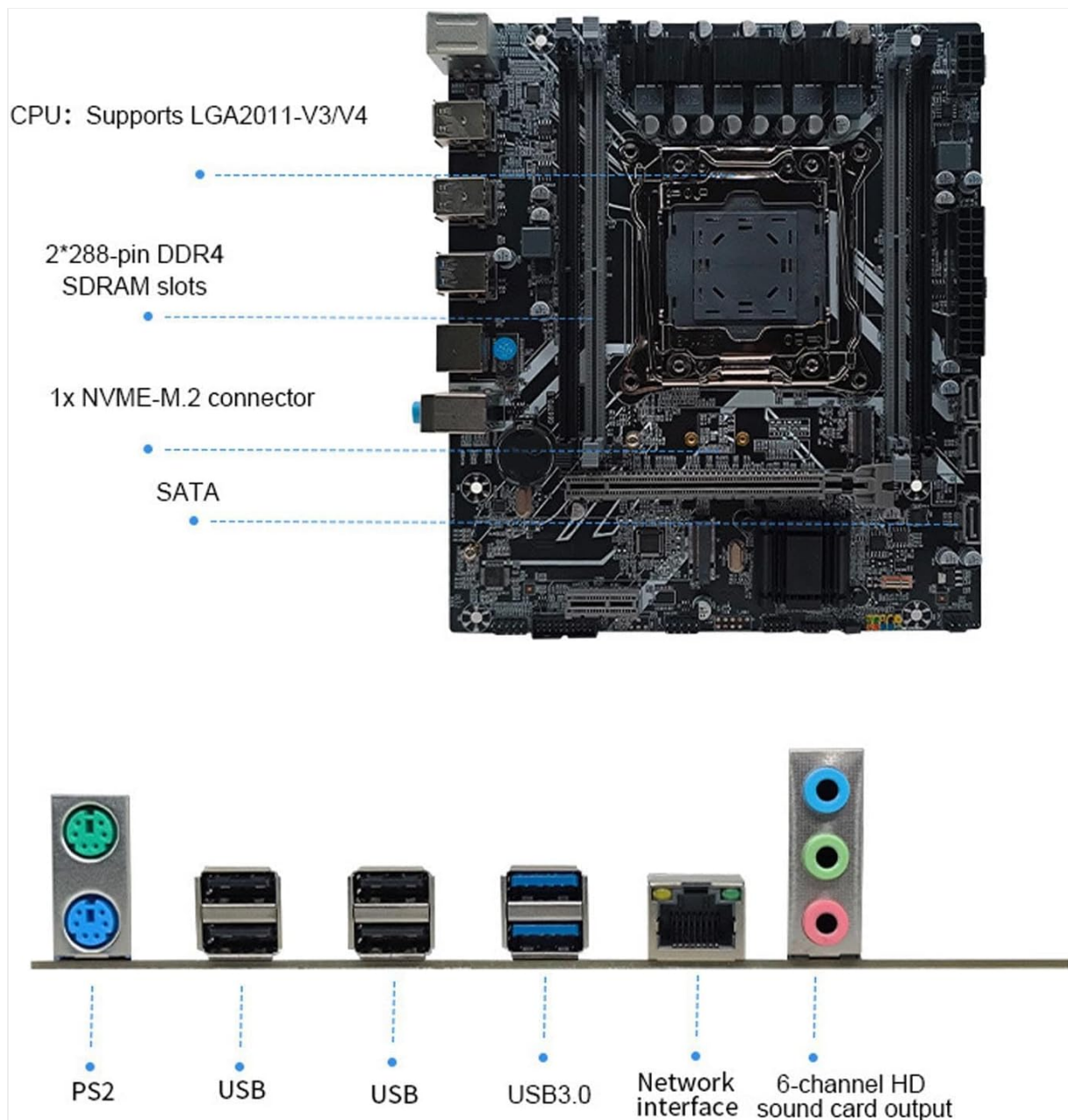- **Weight:** Approximately 1.44 pounds (Item Weight).

CPU: Supports LGA2011-V3/V4

2*288-pin DDR4 SDRAM slots

1x NVME-M.2 connector

SATA

PS2   USB   USB   USB3.0   Network interface   6-channel HD sound card output

Figure 2: Motherboard component layout and I/O panel details.

3. PACKAGE CONTENTS

Verify that all items are present in the package before proceeding with installation.

- 1 x GOWENIC X99 M ATX Motherboard
- *(Additional accessories such as SATA cables, I/O shield, and manual may be included depending on the specific package. Please check your product box.)*

4. SETUP AND INSTALLATION

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

4.1 CPU Installation

Follow these steps carefully to install the CPU into the LGA 2011-3 socket.

1. **Press Down and Lift Lever:** Gently press down on the CPU socket lever and lift it to open the retention
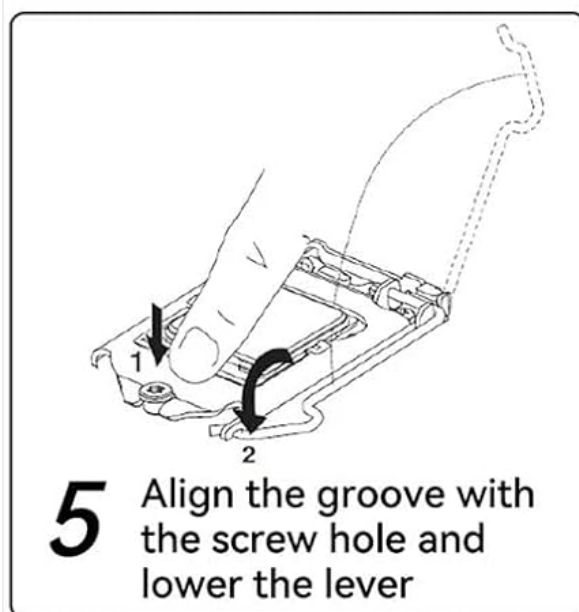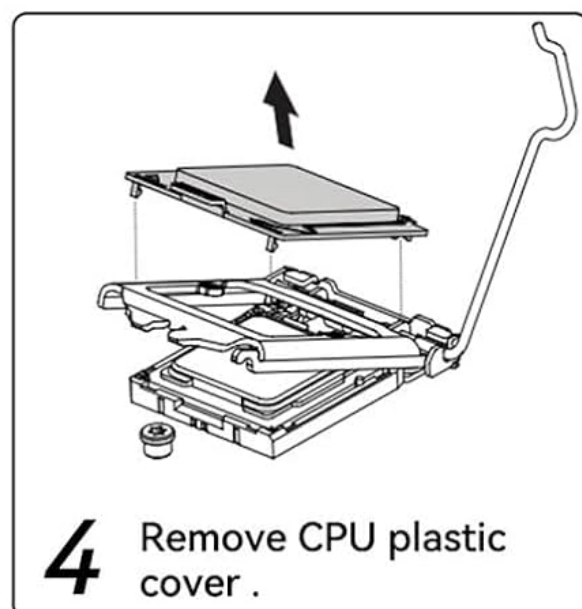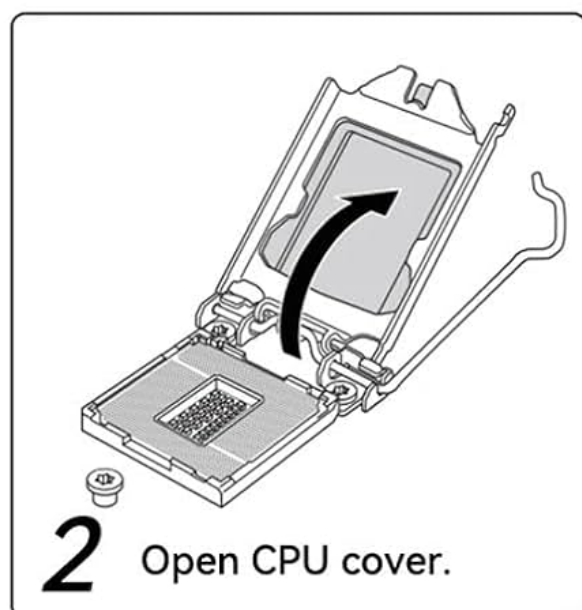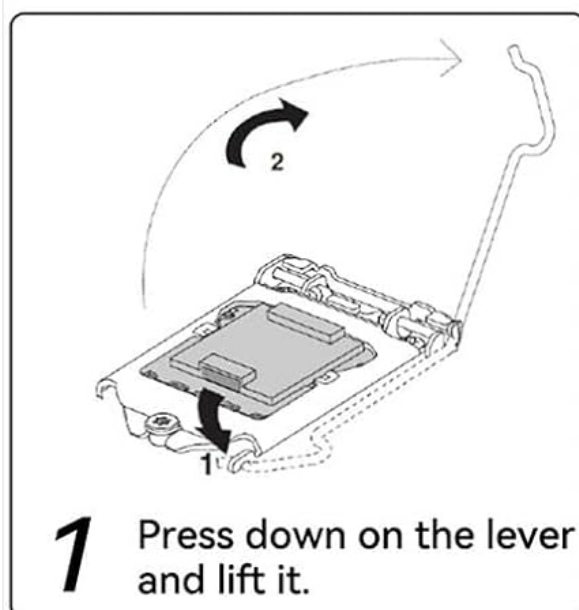
mechanism.

2. **Open CPU Cover:** Carefully open the CPU cover.

3. **Align and Place CPU:** Align the triangle symbol on the CPU with the corresponding triangle symbol on the socket. Gently place the CPU into the socket without forcing it.

4. **Remove CPU Plastic Cover:** Once the CPU is correctly seated, remove the protective plastic cover from the socket.

5. **Secure CPU:** Align the groove on the lever with the screw hole and lower the lever to secure the CPU in place.
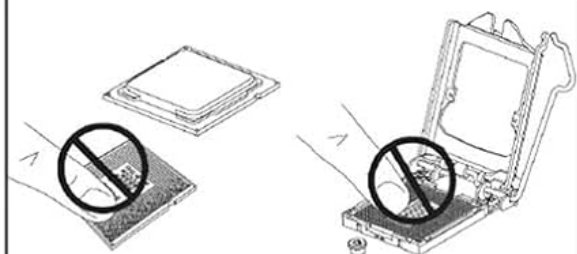
Important Installation Considerations:

- Do not touch the CPU contacts with your bare hands.
- Do not touch the CPU pins on the motherboard socket.

《 CPU installation steps 》

1 Press down on the lever and lift it.

2 Open CPU cover.

3 Align the triangle symbols of the two and gently place them into the CPU.

4 Remove CPU plastic cover.

5 Align the groove with the screw hole and lower the lever
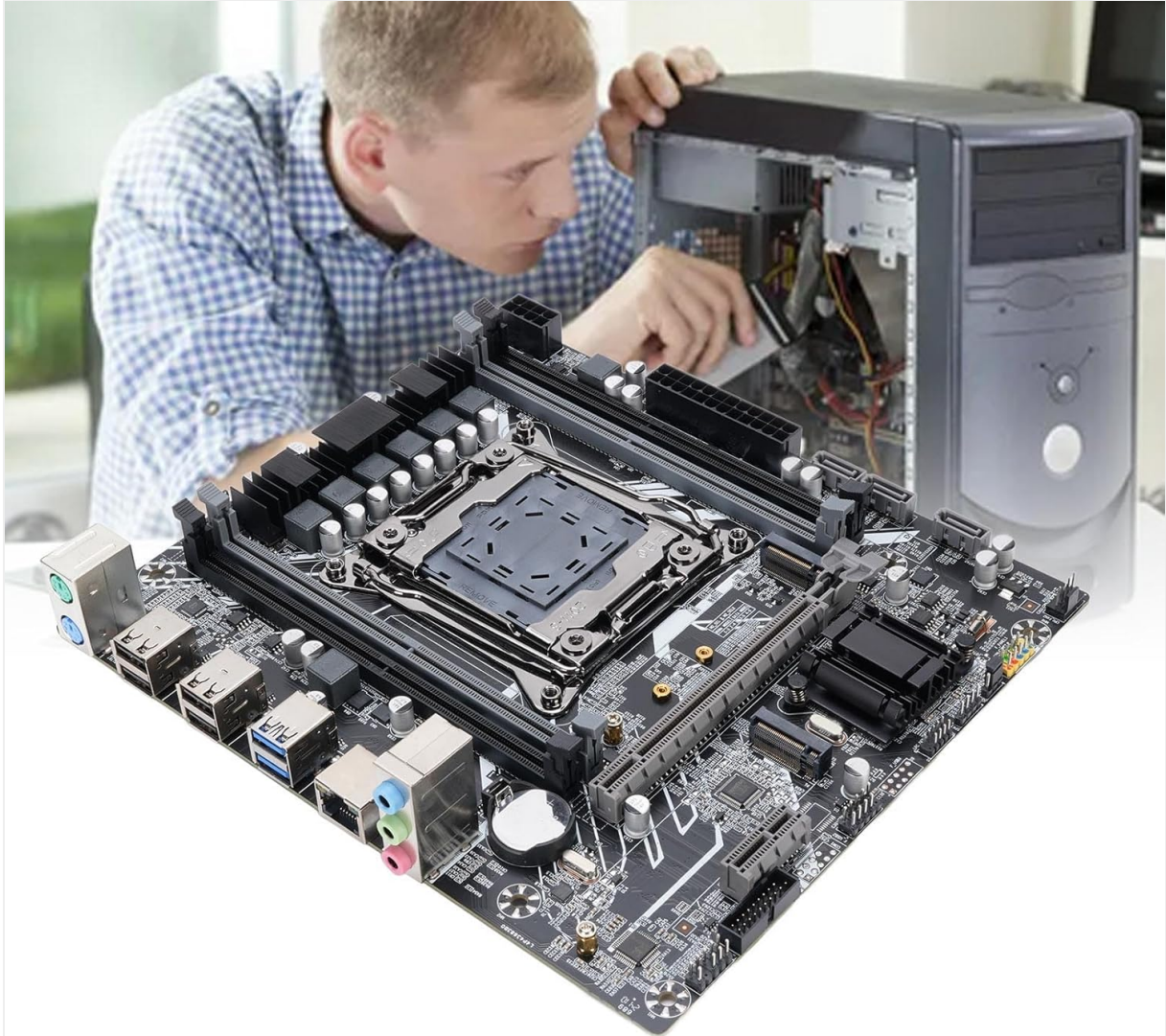
Installation considerations

Do not touch CPU contacts with your hands

Do not touch CPU pins on motherboard.

4.2 Memory (RAM) Installation

The motherboard supports DDR4 memory modules.

1. Open the clips at both ends of the DIMM slot.
2. Align the notch on the DDR4 memory module with the key in the DIMM slot.
3. Insert the memory module firmly into the slot until the clips snap into place.

Support 4 channel effective frequency DDR4 3200MHz 2666MHz 240MHz 2133MHz, memory support up to 128GBGB

Figure 4: Motherboard with DDR4 memory slots.
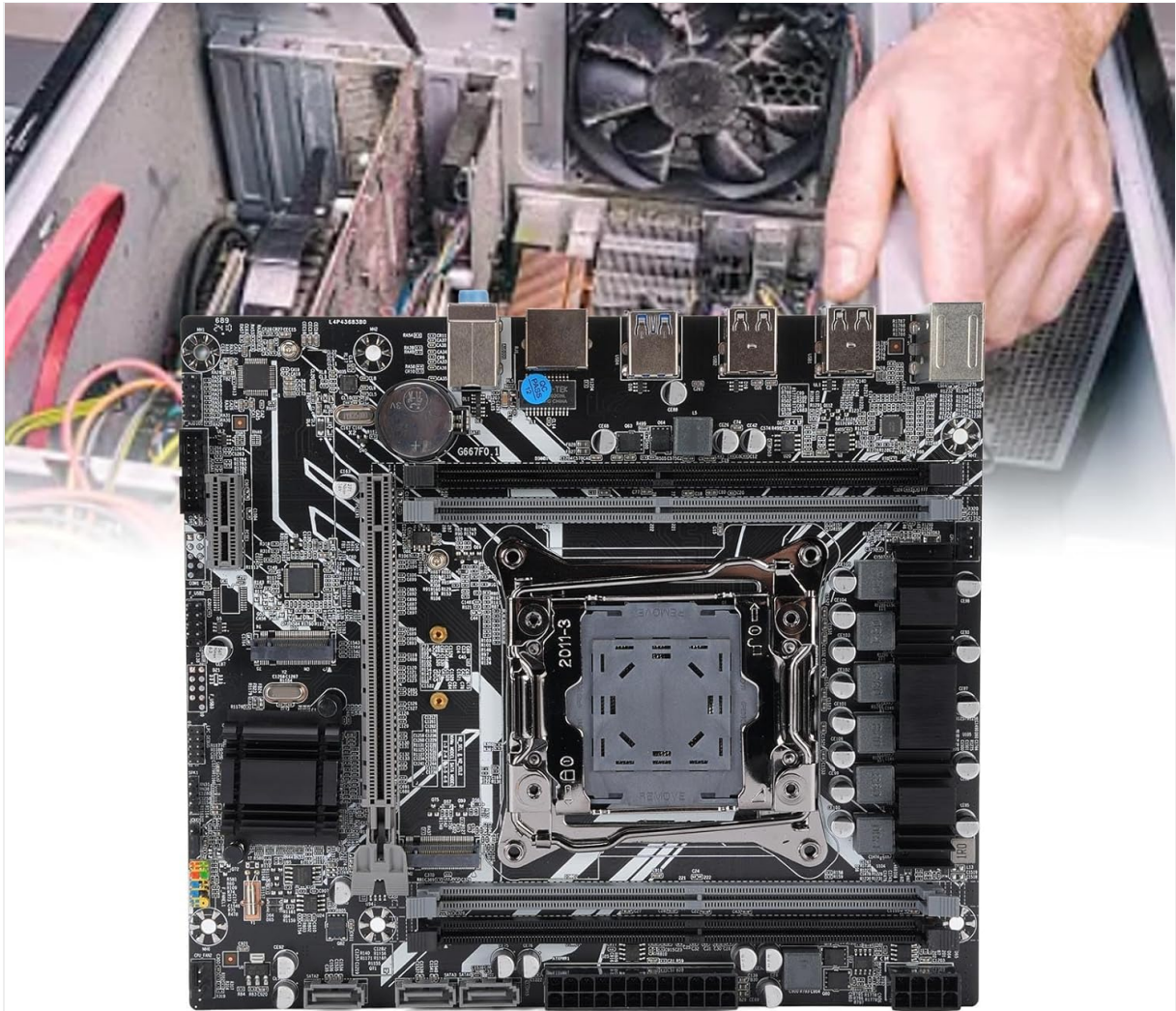
4.3 Storage Device Installation (M.2, SATA)

The motherboard supports both NVMe M.2 and NGFF M.2 SSDs, as well as SATA drives.

- **M.2 SSD:** Locate the M.2 slots. Insert the M.2 SSD at an angle into the slot, then gently push it down and secure it with the provided screw.
- **SATA Drives:** Connect SATA data cables from the motherboard's SATA ports to your hard drives or SSDs. Connect power cables from your power supply to the drives.

4.4 Power Connections

Connect the 24-pin ATX power connector and the 8-pin ATX power connector from your power supply to the

corresponding ports on the motherboard. Ensure connections are firm.

All-solid-state capacitor and 8 and 24Pin power interface ensure stable performance of the circuit board.

Figure 5: Motherboard power connectors and capacitor design for stability.

4.5 Peripheral Connections

Connect your peripherals to the I/O ports on the rear panel:

- **USB Devices:** Use USB 2.0 or USB 3.0 ports for keyboards, mice, and other USB devices.
- **Network:** Connect an Ethernet cable to the RJ45 Gigabit LAN port for internet access.
- **Audio:** Connect speakers or headphones to the 3-in-1 sound jack.
- **PS/2 Devices:** Connect legacy PS/2 keyboards or mice to the dedicated PS/2 ports.

5. OPERATING INSTRUCTIONS

After completing the hardware installation, connect your monitor, power on your system, and proceed with operating system installation.

5.1 BIOS/UEFI Setup

Upon initial boot, you may need to enter the BIOS/UEFI setup utility to configure boot order, system time, and other settings. Typically, this is accessed by pressing the **DEL** or **F2** key during startup.

5.2 Driver Installation

After installing your operating system, install the necessary drivers for the motherboard's components (chipset, LAN, audio, etc.). These drivers are usually provided on a CD/DVD included with the motherboard or can be downloaded from the manufacturer's website.

6. MAINTENANCE

Proper maintenance ensures the longevity and stable operation of your motherboard.

- **Keep Clean:** Regularly clean dust from inside your computer case, especially around the motherboard and cooling components, using compressed air.
- **Ensure Airflow:** Maintain good airflow within the case to prevent overheating.
- **BIOS Updates:** Periodically check the manufacturer's website for BIOS/UEFI updates, which can improve compatibility and performance.
- **Driver Updates:** Keep all drivers updated to ensure optimal system stability and performance.

7. TROUBLESHOOTING

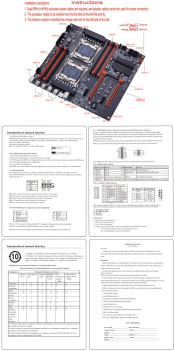If you encounter issues, consider the following common troubleshooting steps:

- **No Power:**

  - Check all power connections (24-pin ATX, 8-pin ATX, CPU, GPU, drives).
  - Ensure the power supply is switched on.
  - Test with a different power supply if possible.

- **No Display:**

  - Ensure the monitor is connected to the graphics card (if installed) or the motherboard's integrated graphics port (if supported by CPU).
  - Reseat the graphics card and memory modules.
  - Check monitor input selection.

- **System Instability/Crashes:**

  - Verify all components are properly seated (CPU, RAM, GPU).
  - Check CPU and GPU temperatures.
  - Run memory diagnostic tools.
  - Ensure drivers are up to date.

- **Peripheral Not Detected:**

  - Try a different USB port.
  - Ensure drivers for the peripheral are installed.
  - Check BIOS settings for USB port enablement.

8. WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official GOWENIC website.
Visit the GOWENIC Store on Amazon

Related Documents - X99 M ATX

X99-RS9 用户手册	**MACHINIST X99-RS9 Motherboard User Manual** Comprehensive user manual for the MACHINIST X99-RS9 motherboard, covering specifications, installation guides for CPU, RAM, expansion cards, internal/external connectors, BIOS settings, and troubleshooting.
	QIYIDA X99 Dual Motherboard Installation Guide and Specifications Detailed installation precautions, onboard interface explanations, and quality guarantee information for the QIYIDA X99 Dual Motherboard, featuring LGA 2011-3 socket, DDR4 RAM, NVME M.2, USB 3.0, and SATA 3.0.
SHANGZHAOYUAN • H511M PRO User Manual (English) • H511M PRO Benutzerhandbuch (Deutsch) • H511M PRO Manual do usuário (Português) • H511M PRO Manual del Usuario (Lengua española)	**SHANGZHAOYUAN H511M PRO User Manual - Installation and Specifications** Comprehensive user manual for the SHANGZHAOYUAN H511M PRO motherboard. Includes detailed specifications, component overview, installation guides for CPU, memory, and expansion cards, back panel connectors, internal connectors, and troubleshooting FAQs.
MACHINIST X99 D8 MAX User's Manual	**MACHINIST X99 D8 MAX User's Manual** This user manual provides detailed information and instructions for the MACHINIST X99 D8 MAX motherboard, covering specifications, component overview, installation procedures for CPU, memory, and expansion cards, back panel and internal connectors, BIOS setup, and troubleshooting.

MACHINIST X99-RS9 User's Manual	**[MACHINIST X99-RS9 Motherboard User Manual](#)** Comprehensive user manual for the MACHINIST X99-RS9 motherboard, detailing specifications, component overview, installation guides for CPU, fan, memory, and expansion cards, back panel connectors, internal connectors, BIOS setup, and troubleshooting.
X99 RS9 User Manual (English)	**[MACHINIST X99 RS9 Motherboard User Manual](#)** Comprehensive user manual for the MACHINIST X99 RS9 motherboard, covering specifications, component overview, installation guides for CPU, RAM, and expansion cards, internal connectors, BIOS setup, and troubleshooting FAQs.